# A COMPARISON OF RESEARCH AND PUBLICATION PATTERNS AND OUTPUT AMONG ACADEMIC LIBRARIANS IN EASTERN AND SOUTHERN AFRICA BETWEEN 1990 TO 2006

BY

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# Submitted to the Department of Library and Information Science For the Award of Master of Library and Information Science

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#### **DECLARATION**

I wish to declare that this thesis, "A Comparison of Research and Publication Patterns and Output among Academic Librarians in Eastern and Southern Africa between 1990 to 2006", is my original work and has not been presented for a degree in any other university and that all sources used in this work have been acknowledged by citations.

Grace C. Sitienei

Supervisor

Date

## **DEDICATION**

I dedicate this work to my son Ira Kiprop, my father and mum, George and Elizabeth Sitienei, and my brother Benard Kitur for their support and patience while I was away from them.

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#### LIST OF ABBREVIATION AND ACRONYMS

CD-ROM Compact Disc Read Only Memory

C&RL College & Research Librarianship

CSIR Council for Scientific and Industrial Research

HRSC Human Science Research Council

JAL Journal of Academic Librarianship

LIS Library and Information Science

LISTA Library and Information Science Technology Abstract

MRC Medical Research Council

OPAC Online Public Access Catalogue

OUT Open University of Tanzania

RP Relative performance

SCI Science Citation Index

SSCI Social Sciences Citation Index

SDI Selective Dissemination of Information

SABINET Southern Africa Bibliographic Network

UNESCO United Nation Educational Scientific and Cultural Organization

USSR Union of Socialist Soviet Republics

WORLDCAT World Catalogue Database

#### **ABSTRACT**

Different categories of people who may be scholars, lectures, students, retirees, housewives, politicians, administrators etc. use the library to access the information they require to pass exams, make decisions or read for leisure. Academic libraries are most important to all scholars and students who pass through a university. For these libraries to continue striving and provide effective services, research is required to improve on areas that are not viable to users. The professional academic librarian is mandated to provide guidance on how these services can be improved in order to make the library useful to all. This cannot be possible if the academic librarians only concentrate on shelving, acquisition, classification, cataloguing, charging and discharging and processing of information materials. The role of academic librarians has continued and will continue to change as time goes on. Many academic librarians provide research assistance to their users and other vital services to facilitate the completion of their client's research. However, it is significant to note that academic librarians must engage in research and publish, in order to improve services and attract more users to the library. Payne and Payne (2004: 9) highlights that there are two main reasons why people carry out research. One among others is because there is an intellectual challenge and the urge to fill a gap in our knowledge, or believe that current accepted theories should be tested. A second reason is that we want to change the world.

Academic librarians need to be provided with incentives such as funding, promotions, and time out in order to entice them to carry out research. This study was carried out with an idea that academic librarians should carry out research and publish, for development and for the improvement of library services. Academic librarians holding a bachelors degree and above, who were working in public universities in Eastern and Southern Africa were targeted for the study. The purpose of this research was to compare the research and publication patterns of academic librarians working in Eastern and Southern Africa from 1990 to 2006. Six objectives were formulated in order to achieve this purpose.

The research was purely carried out online, 866 academic librarians names were retrieved from a total of 47 Public university libraries WebPages, via the universities websites. These names were used as access points to retrieve data from the two online databases (i.e. LISTA and WORLDCAT).

Bibliometrics was used as research method, Microsoft Excel software was also employed for the purpose of data analysis and presentation of the collected data. Findings indicated that Southern Africa was the most prolific region with 194 (74.00%) of the publications emanating from there. South Africa was the most productive country in Southern Africa with 111(42.21%) publications. Tanzania was the most productive country in Eastern Africa with 31 (11.41%). Muswazi and Pienaar were the most prolific academic librarians with 11(3.97%) publications each. Most productive academic library was from Southern Africa, which was Botswana with 31 (11.41%) publications. Majority of the academic librarians from both regions contributed to one publication. The study was concluded with the following observation being made: Overall South Africa emerged the most prolific country in both regions; majority of the countries from both regions were not consistent in their publication production; there was a continuous rises and drops in research publication from 1990 to 2006; and academic librarians preferred publishing articles than any other publications, many academic librarians did not engage in research and academic librarians, from the two regions prefer publishing individually. The study further recommended several studies that needed to be carried out in Africa and other parts of the world in order to fill and clarify gaps that emanated from the study.

#### CHAPTER ONE

#### INTRODUCTION AND BACKGROUND TO THE STUDY

#### 1.1 Introduction and conceptual framework

The term 'research' has been defined in many ways by a number of authors, and of these the simplest is perhaps Neuman's (2006:2) assertion that it is a way of going about finding answers to questions. Leedy in Aina (2002:1) goes further to state that research "is the manner in which we attempt to solve problems in a systematic effort to push the frontiers of human ignorance or confirm the validity of the solutions to problems others have presumably solved."

Research therefore has significant personal, sociological and economic benefits in fields such as medicine, agriculture, business, the military, law, commerce and academics. Goddard and Melville (2001:1) believe that without research, we would be nude, homeless and penniless, because everything we know now had to be discovered by someone at some point in time. In terms of personal growth or development, Houghton in Career Focus (2006, par.1) cited research as a key player in helping individuals achieve the career of their dreams, while the editor of The Sowetan (2008) more generally wrote an article entitled and explaining why Research is the key to success. In addition, Aceto (2005, what are the benefits of research to a university? section, par.1) states that the career benefits of research are countless, ranging from an increased ability to attract highly qualified and motivated members of staff (both nationally and internationally), to having a greater advantage over competitors in gaining and maintaining research funds, better chances of 'rubbing shoulders' with the very best, and creating a more stimulating working environment for all involved. Research is carried out all over the world and in all sectors of society. Goddard and Melville (2001:3) reveal that in South Africa, the southern - most country in Africa, research is carried out in all sectors of the economy (cultural scientific, medical etc.) in institutions such as museums, iniversities, technikons, industry research laboratories, and councils such as CSIR, HSRC, MRC and various state departments. Because of the significance attached to research and publication in all sectors of the various institutions, academic librarians in public universities should also be expected to carry out research. It may be surprising to most to hear of librarians engaging in research, because people generally believe that librarians confine themselves to shelving, checking books in and out, and classifying and cataloguing books in the library. But Verzosa (2007) believes that it is very important for librarians to engage in research as this adds value to librarianship. She laments that research in librarianship particularly within the Philippines is disappointing and though it is evident that there is an abundance of well educated, well trained professionals, there is an unfortunate shortage of research—oriented librarians. The same may or may not apply to academic librarians in Africa. Research and research publications compliment each other, meaning that academic librarians should not only engage in research, but also publish the outcome of their research in order for others to gain access.

The DEST HERDC Specification for the collection of 2006 data (DEST HERDC, 2008, para.1.3.10) defines research publications as books, book chapters, journal articles and/or conference publications that meet the definition of research and are characterized by: substantial scholarly activity, as evidenced by the discussion of the relevant literature - an awareness of the history and antecedents of the work described a format(in terms of presentation) that allows a reader to trace the sources of the work, through citations and footnotes; originality, portrayed by not being a compilation of existing works; content that increases the stock of knowledge; a form that enables the dissemination of knowledge; and attempts to improve the quality of publications.

The Royal society of New Zealand (RSNZ, n.d.para.1) website adds that research publications must i) maintain scientific self respect; ii) complete the scientific process; ii) be a clear measure of productivity; iv) promote the sense of a scientific community, and; iv) preserve knowledge.

#### 1.2 Definition, roles, objectives and purpose of academic libraries

Prytherch (2000:3) defines academic libraries as libraries in an educational establishment at any level, i.e. universities, colleges, research associations, etc. The term is less associated with school libraries. The objectives of academic libraries are to serve the needs of the academic community (staff and students); provide study areas for users; provide a lending service appropriate to different types of users; and provide an active information service (and this may extend beyond the institution to local industry and commerce). Peters (1999:27) observes that academic libraries document and cater for advancement in educational and research disciplines that are of great interest to an institution by providing a freely available and readily accessible service. This facilitates promotion and tenure, research funding and professional opportunities, which are closely linked to an individual's publication record. Academic libraries are also repositories of ideas that provide a durable true base upon, which subsequent generations of scholars can build and in so doing, create knowledge or technology that opens new possibilities of discovery. They further guarantee the survival of knowledge beyond one generation by providing a shared collection that is difficult to destroy. This knowledge survival ensures that a culture is grounded and spares a society the cost and effort of recreating techniques and reinventing technology. Peters (1999:27) concludes that academic libraries contribute towards a culture by providing a locus for research, new ideas, lecture series and a host of exhibits and exhibitions.

#### 1.3 Problem statement

Onyancha (2007; 95) reveals that there is general belief in Africa that not much is presently known about the nature of research and publication patterns by academic librarians. The purpose of this study is to establish and compare the research and publication patterns of academic librarians within two regions in Africa. An academic ibrarian supports members of an academic community, such as students, researchers and eaching staff by managing, organizing, evaluating and disseminating the information hey need. Publishing or creating information has not been part of academic librarians' esume. Stover (1996, par.2) believes that it is vital for academic librarians to be involved

in publishing in order to support the scholarly communication process. Gregory and Medford (2006, par.1) maintain that academic librarians would also benefit a great deal from publishing because it allows them to maintain their faculty status, obtain promotions, and gives them the opportunity to add to the body of knowledge that goes into creating our literature. Bahr and Zemon (2000: 411), and Hart (1996: 455) have observed that academic librarians in the West publish a lot, and in some institutions, publication is actually a requirement for promotion. In order for academic librarians to carry out research, financial support, designated time to do research and rewards for completing research in time should be provided as incentives that entice librarians to continue with research, and compel others to begin.

#### 1.4 Aim of the study

The overall aim of this study was to compare the publication patterns and output of academic librarians working in Eastern and Southern African public universities between 1990 and 2006.

#### 1.5 Research Objectives

The main objectives of the study were as follows:

- To examine what academic librarians publish;
- To establish why academic librarians publish;
- To study the publication trends of academic librarians;
- To establish in which journals academic librarians publish;
- To determine the nature of collaboration: and
- To compare the number of publications produced.

Public universities are Institutions of higher education that are funded by public means through a national overnment

#### 1.6 Research Questions

The following research questions were posed;

- What do academic librarians publish?
- Why should academic librarians publish?
- What is the publishing trend of academic librarians?
- Which journal do academic librarians publish?
- Do academic librarians collaborate?
- How much do academic librarians publish?

#### 1.7 Significance of the study

It was hoped that the following organizations and individuals might find this study useful to them: i) policy makers and research funding institutions, such as the University of Zululand, and library associations in Eastern and Southern Africa, who would see the need to provide funding, skills and equipment to librarians wishing to publish ii) journal publishers, who would benefit by publishing this study iii) the researcher to attain a masters degree; iv) librarians, as it would help them identify other researchers within the African region with whom they could collaborate in research; and v) employers, who could use this study to identify the best librarian candidates for recruitment in the field of research (both in terms of the qualities that they possess, and in identifing existing top researchers).

#### 1.8 Scope of the study

The study focused on public academic libraries found in the Eastern and Southern regions of Africa. In Eastern Africa, it covered Ethiopia, Kenya, Tanzania, Somalia, Sudan and Jganda. Countries covered in Southern Africa were: Botswana, Malawi, Lesotho, Vamibia, South Africa, The Kingdom of Swaziland, Zambia and Zimbabwe. The esearcher selected these two regions because she hails from Eastern Africa and is also a

student in Southern Africa. The researcher was curious as to the publication strength and output of the regions. Rwanda, Burundi, Eritrea and Djibouti (Eastern Africa) and Angola, Mozambique (in Southern Africa) were excluded from the study because names of their academic librarians were not available.

The choice of these two databases was also largely based on their availability. The researcher found that individual subscription to a database was not financially viable. Fortunately, the University of Zululand - where this study was carried out - subscribes and provides the databases free to its students at the library. The databases are available through the Library of the University of Zululand's OPAC and the university's library websites on the Internet.

#### 1.9 Literature review

Neuman (2006:111) states that a literature review is based on the assumption that knowledge accumulates, and that we learn from and build on what others have done. Scientific research is a collaborative effort involving many researchers who share their results with others and pursue knowledge as a community. For the purposes of this study, iterature was thoroughly reviewed from sources such as books, journals, conference papers, research publications, the Internet and other sources (see chapter two for detailed information).

#### 1.10 Research method

The study opted for bibliometrics as a research method. Karolinska Institutet Bibliometrics Project Group (2006, para.1) defines it as the application of mathematical right statistical methods to publication, and that it is often used to evaluate scientific esearch through quantitative studies on research publications. Wyllys (2003, Bibliometrics and cybermetrics Section, para.2) describes it as one of a few research nethods used in Library and Information Science.

Diodato (1994; ix) notes that informetrics is sometimes used synonymously with bibliometrics. However, the latter examines patterns that show up not only in publications, but also in many aspects of life. Informetrics can generally be viewed as that which includes bibliometrics and all of scientometrics. On the other hand, scientometrics applies bibliometric techniques to science. 'Science' refers to physical and natural science and mathematics, but doesn't include social science. Scientometrics goes beyond usual bibliometric techniques. For example, it may examine development and even go so far as to include political sciences. It can compare science research policies from country to country and/or the amount of scientists in each country. Cybermetrics and webometrics are two terms that have recently emerged in the field of Library and Information Science. The two terms are related to bibliometrics, scientometrics and informetrics. However, cybermetrics seeks to investigate the quantitative aspects of the Internet, while webometrics investigates and answers information-related questions concerning the Web, such as how big the Web is, what the "average page" is like, how ichly connected the Web is, etc (refer to chapter two the section on conceptual ramework for more information).

#### 1.11 Organization of the report

The report was organized as follows:

Chapter one provides the background framework of this study. The chapter introduces the tudy's conceptual framework; summarizes the definition, roles, objectives and purpose of academic libraries; defines the problem statement, aim, objectives, research questions and the scope and limitations of the study; briefly introduces the literature review esearch method and work plan used in the study; and provides a definition of terms used the study and summary of the chapter.

hapter two reviews literature related to this study. Under a theoretical framework ibliometrics is defined and discussed. Other issues discussed are librametry, iformetrics, scientometrics and webometrics; collaboration of authors: the role of

academic librarians; and related studies on publication patterns and output of academic librarians. A summary of the chapter was also provided.

Chapter three: discusses the research methodology used in this study. In this chapter the following issues are addressed: an introduction to the chapter; bibliometrics as a research method; targeted population; study area; sampling; sample frame and sample size; data collection instruments; data collection procedure; data analysis; pilot study; problems encountered: and a summary of the chapter.

Chapter four consists of the data presentation and analysis. The chapter is arranged as follows: an introduction to the chapter: distribution of publication output according to geographical region, country, academic librarians and journals, trend publication output by region from 1990 to 2006; distribution of publication output by subject; distribution of publications by type of document; and the nature of collaboration among academic librarians.

Chapter five discusses the findings of this study, beginning with an introduction to the chapter followed by why academic librarians should publish; most productive countries, academic libraries and academic librarians; application of Lotka's and Bradford's law of scattering; most popular journal/s; research trends in Eastern and Southern Africa; most researched subject; most published type of document; nature of collaboration among academic librarians; and a summary.

Chapter six consists of the recommendations and conclusions of the study.

The bibliography and appendixes (A and B) are provided at the end of this study

#### .12 Workplan

The International Research Centre (2008, what is a work plan section) define a work plan s a schedule, chart or graph that summarises the different components of a research

project and how they will be implemented in a coherent way within a specific time – span. For this research a workplan had to be prepared and it served as a guide on how to gather the necessary data and compile this thesis. The work plan is provided in the appendix at the end of this report.

#### Definition of terms

1.13

This study provides the definitions as they exist in *Harrods's librarians' glossary and reference book* by Prytherch, A. (See bibliography for reference).

#### 1.13.1 Academic librarians

In this study they are considered professionals who are holders of first degree and above and are working in a university library.

#### 1.13.2 Academic libraries

Libraries that are within public universities.

#### .13.3 Article

A contribution written by one or more persons for publication in a periodical

#### .13.4 Bibliometrics

It is the discipline of measuring the performance of a researcher, a collection of articles, a journal, a research discipline or an institution. This process involves the 'application of statistical analyses to study patterns of authorship, publication, and literature use.' In this project the word bibliometrics and informetrics are used interchangeably.

#### .13.5 Electronic journal

A journal whereby the full end product is available on optical disc or over a network or in which all aspects

of preparation, referencing, assembly and distribution are carried out electronically

#### 1.13.6 Electronic publishing

The publication and dissemination of information via electronic means, especially using the CD-ROM or networking. Other options include the use of electronic databases, videotext, e-mail and electronic newsletters.

#### 1.14 Summary

This chapter briefly touched on research and the characteristics of a research publication, and denoted the roles, objectives and purpose of academic libraries; problem statement; aim of the study; and the objectives and research questions of the study. Under the scope, he chapter revealed the subject and geographical coverage; limitations that the researcher incountered; databases used to collect data and why they were selected; the period the study covered; and a brief introduction to the literature review and research method used in this study. This was followed by a work plan, definition of terms, and summary of the whole chapter.

The next chapter will provide a literature review on bibliometrics and other related issue.

#### **CHAPTER TWO**

#### LITERATURE REVIEW

#### 2.1 Introduction

3less and Higson-Smith (2000:20) opine that the purpose of a literature review is one or a combination of the following:

- To sharpen and deepen the theoretical framework of the research in question.
- To update the researcher on the latest developments in related areas of research.
- To identify gaps in knowledge, as well as weaknesses in studies already carried
  out, by establishing what has been done, what hasn't been done, and what needs
  to be improved.
- To discover connections, contradictions or other relationships between different research results by comparing various investigations.
- To identify variables that should be considered in a given study, as well as those that prove irrelevant. This finding is often achieved by comparing different investigations.
- To examine the definitions used in previous works as well as the characteristics of the population under investigation, with the aim of adopting them in a study. In so doing homogeneity, which enables easier comparison, is obtained in different studies.

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#### 2.2 Conceptual framework

Healthy Women – Healthy Communities websites (2003, par.1) reveals that there are many different ways to explain a conceptual framework. This site adds that it is a set of logical ideas organized in a way that makes them easy to communicate to others. The BusinessDictionary.com website (2008) defines it as a theoretical structure of assumptions, principles and rules that holds together the ideas comprising a wide concept. This study employed the conceptual framework of bibliometrics/ or informetrics.

#### 2.3 Bibliometrics

As a word, bibliometrics appears to have its roots in "biblio" and "metric" (Sengupta, 1992:76). The term "biblio" is derived from the combined Latin and Greek word "biblion", which is similar to the word Bybl (os), meaning book. Paper was derived from the word Byblos, a city of Phoenicia noted for its export trade in paper. The word "metrics", on the other hand, indicates the science of meter, i.e. measurement, and is derived either from the Latin or Greek word "metricus" or "metrikos", each respectively meaning measurement.

Ikpaahindi (1985: 163) reveals that bibliometrics is a generic term that describes a series of techniques that seek to quantify the process of written communication techniques. The author states that bibliometrics has been used to resolve three issues: i) to identify the most productive authors identifying concepts in science; ii) to identify the fusion and fission of scientific knowledge; and iii) to supplement, not substitute, subjective judgements.

According to Egghe and Rousseau in Hjorland (2007, par.2), bibliometrics emanated from the west from statistical studies of bibliographies. Hjorland (2007, par.1) defines bibliometrics as "book measurements". The term, according to the author, is used for all kinds of documents (journal articles being the most common). However, measurement

does not lie in the physical properties of these documents, but in the statistical patterns of variables such as authorship, sources, subject, geographical origin and references (citation).

Wallace (1989: 11) believes that bibliometrics [as a discipline] first came into being in the late nineteenth century, arguing that there are works in that century that function as original bibliometric studies. Both Hjorland (2007, par.4) and Ikpaahindi (1985: 163) agree with Wallace that studies done by Cole and Eales in 1917 were truly bibliomerics in nature. The two scholars conducted a statistical analysis of literature of comparative anatomy from 1550 and 1860, and in their report, illustrated the decline of interest and the distribution of literature in and between the subject matter in countries, within periods and according to divisions within the animal world. A further benchmark in the history of bibliometrics was E. Wyndham Hulme's published book of 1923, which was based on the study of the International Catalogue of Scientific Literature, where for the first time the term 'statistical bibliography' was introduced (Wallace, 1989:1) Hulme did not agree with Cole and Eales' use of the term 'statistical analysis of literature', and settled for the term 'statistical bibliography' in 1922. The scholar examined a number of bibliometric characteristics of the publications listed in the catalogue and the number of journals produced by each country represented in the list.

Before 1969, bibliometrics was therefore either known as 'statistical bibliography' or had no title at all (Sengupta, 1992:75). This implies that studies done during the first half of the twentieth century were individual efforts by scholars in different fields who did not know of each others work (Wallace, 1989:11). But this all changed when the term 'bibliometrics' was finally coined by Pritchard in 1969. The author argue that although Pritchard coined the term, and despite it being quickly accepted, the content of the term continued to disturb him. Pritchard hadn't agreed with Hulme's use of the term 'statistical bibliography' because he thought the term was clumsy and could be confused with statistics or bibliography. Pritchard then suggested the term bibliometrics, stressing that the term was more straightforward. He was optimistic that bibliometrics "would be used explicitly in all studies which sought to quantify the process of written communication,

and would quickly gain acceptance in the field of information science." Pritchard's optimism bore fruit, because according to Sengupta (1992: 78), the development of bibliometrics as a subject has since grown tremendously as a distinctive research area. As for Pritchard, he may have finally been satisfied in 1972, when he defined bibliometrics as the "metrology of the information transfer process... its purpose is analysis and control of the process" (Sengupta, 1992: 77). Ikpaahindi (1985: 163) and Hjorland (2007: par.3) state that this definition refers to the application of mathematical and statistical methods to books and other media of communication.

In 1978 Nicholas and Richie stressed that the scope of bibliometrics was "...to provide information about the structure of knowledge, and how it would be communicated" (Sengupta, 1992: 77). The two scholars divided bibliometrics into two groups, i.e. descriptive bibliography, which describes the characteristics or features of literature, and behavioral bibliography, which examines the relationships formed between components of literature (e.g. citation studies). Sengupta reveals that in contrast a scholar by the name of Rolland Stevens considered bibliometrics to be a quantitative science and divided it into two basic categories, i.e. descriptive bibliography, which is used to examine authors' productivity; and evaluative bibliography, which is used to count the use in literature of a specific topic, subject or discipline. The author argues that a measurement is "the common theme throughout the definition and purpose of bibliometrics" and that "the thing we are measuring when carrying out a bibliometric study are the process variables in the information transfer process". Following this, more specific definitions of bibliometrics were formulated, such as The British Standard Institution's assertion that it is the "quantitative analysis of the bibliographic feature of a body of literature" and Dorothy Hertzel's definition of bibliometrics as "the science of recorded discourse which uses specific methodologies, mathematics and science, in its research in a controlled study of communication. It is the body of literature, a bibliography quantitatively or numerically or statistically analyzed".

Herubel (1999: 380) sums up the definition of bibliometrics as "as a quantitative analysis of publications for the purpose of ascertaining specific kind of phenomenon".

Rousseau (1990) summarized the early historical development of bibliometrics in a chronological manner and referred to it as the *Timeline of bibliometrics*. This timeline is provided in Table 1.

Table 1: Timeline of bibliometrics by Rousseau

| YEAR | OUTSTANDING EVENTS  |
|------|---|
| 1913 | Auerbach finds hyperbolic relation between the rank and size of German    |
|      | cities (what is currently called Zipf's law)                              |
| 1916 | Hyperbolic nature of word use (Zipf's law) - J.B. Estoup                  |
| 1917 | "The history of comparative anatomy" - publication counts and graphical   |
|      | representation - F.J.Cole and Nellie Eales                                |
| 1922 | The term "Statistical bibliography" - Wyndham Hulme                       |
| 1922 | Dresden's work on the publications of the Chicago section                 |
|      | (mathematics)   |
| 1926 | Lotka's law "Frequency distribution of scientific productivity"           |
| 1927 | Citation analysis: Gross and Gross  |
| 1928 | Hyperbolic nature of word use: Condon                                     |
| 1929 | Zipf's Ph.D.Thesis  |
| 1932 | Selected studies of the principle of relative frequency (Chinese) - Zipf  |
| 1934 | Sources of information on specific subjects: Bradford's law               |
| 1934 | Paul Otlet uses the term bibliomtrie in his Traite de Documentation       |
| 1935 | "The psychobiology of language; first clear formulation of Zipf's law" by |
|      | Zipf  |
| 1936 | Journal-to-journal cross-citation network: Husley Carson and Marcella     |
|      | Lubotsky  |
| 1948 | Characteristics of the literature of chemistry and physics; use of "key   |
|      | journals" - Herman Fussler  |
| 1948 | A mathematical theory of communication : Claude Shannon                   |
| 1948 | Term librametrics proposed by Ranganathan                                 |

| 1949      | Zipf - Human behavior and the principle of least effort              |
|-----------|--|
| 1954      | Mandelbrot: Structure formelle des texts et communication            |
| 1955      | "Citation indexes for science" - Garfield                            |
| 1956      | Bibliographic coupling idea - Fano                                   |
| 1960      | Index of realized research potential - Raisig                        |
| 1961-1965 | Bibliographic coupling - Kessler                                     |
| 1963      | Science Citation Index   |
| 1963      | Little science, big science: Price                                   |
| 1963      | Journal impact factor: Garfield & Sher                               |
| 1964      | Goffman: contagion / epidemic idea                                   |
| 1965      | "Networks of scientific papers": Price                               |
| 1966      | Naukometria = scientometrics : Nalimov                               |
| 1966-1968 | Co- mentioning = co-citation idea: Rosengren                         |
| 1967      | Leimkuhler function  |
| 1968      | Matthew effect: Merton   |
| 1969      | "Statistical Bibliography: an interim bibliography" - Alan Pritchard |
| 1969      | The term "bibliometrics": Alan Pritchard                             |
| 1969      | Equivalence of bibliometric laws(strongly suggested):Faiththorna     |
| 1972      | Ortega hypothesis: Coles   |
| 1973      | Social Science Citation Index  |
| 1973      | Co- citations: Henry Small + Irina Marshakova                        |
| 1975      | Categories of citations: Moravcsik & Murugesan                       |
| 1975      | First international Research Forum in Information Science (IRFIS):   |
|           | London – B.C. Brookes  |
| 1976      | Success-breeds-success: Price  |
| 1977      | Mandelbrot: "The fractal geometry of nature"                         |
| 1978      | Journal of scientometrics founded                                    |
| 1978      | Arts & Humanities Citation Index                                     |
| 1979      | Term "informetric": Nacke  |
| 1983      | Co- word analysis: Callon and Courtial                               |

| 1983 | Evaluation of big science: Martin & Irvine  |
|------|---|
| 1983 | Van Raan, Moed and their team perform evaluation of university research group           |
| 1984 | Eugene Garfield receives the first Derek J. de Solla Price medal (list of all awardees) |
| 1985 | Pao fitting procedure   |
| 1985 | Citer motivations: Terrence Brooks  |
| 1986 | Nicholl's fitting procedure   |
| 1987 | First International Conference (ISSI)   |
| 1988 | First regional large-scale citation index (China)                                       |
| 1999 | Dictionary of bibliometrics   |
| 2001 | The Mires of research evaluation  |
| 2002 | Research performance in the humanities  |

#### Source

- Rousseau, R. 1990. Timeline of Bibliometrics, from http://users.pandora.be/ronald.rousseau/html/timeline of bibliometrics.html
- Herubel, P.J.V.M. 1999. Historical bibliometrics: it's purpose and significance to the history of discipline, from <a href="http://www.gslis.utexas.edu/~/andc/fulltext/Landc\_34\_4\_Herubel\_pdf">http://www.gslis.utexas.edu/~/andc/fulltext/Landc\_34\_4\_Herubel\_pdf</a>

Sengupta (1992: 82) states that bibliometric techniques can be applied to the following areas:

- Identifying research trends and the growth of knowledge in different scientific disciplines;
- Estimating the comprehensiveness of secondary periodicals;
- Identifying the users of different subjects;
- Identifying authorship and its trends in documents on various subjects;
- Measuring the usefulness of ad hoc and retrospective SDI services;
- Forecasting past, present and future publishing trends;
- Developing experimental models correlating or bypassing the existing ones;
- Identifying core periodicals in different disciplines;

- Formulating an accurate need-based acquisition policy within limited budgetary provision;
- Adapting an accurate weeding and stacking policy;
- Initiating effective multilevel network systems;
- Regulating the inflow of information and communication;
- Studying obsolescence and the dispersion of scientific literature;
- Predicting the productivity of publishers, individual authors, organizations, countries or an entire discipline;
- Designing automatic language processing for auto-indexing, auto-abstracting and auto-classification; and
- Developing norms for standardization.

#### Bibliometrics seeks to address the following issues:

- In which country the literature on a particular subject or discipline was published and their amount of contributions.
- Where the author who contributed to certain subject literature works is based and the amount of contribution to those nations
- What language is used in most publications
- · How words are used in most publications and the patterns describing their use
- What type of information sources are very important (books, theses, articles etc.)
   to certain subjects
- The research methodologies (historical, case study, experimental, survey, etc) are used in a certain subject's research information sources
- The distribution of the authors' contribution to literature and reasons why some authors publish more than others
- The distribution of articles on a particular subject in the journals in which they are published (Wallace, 1989: 1).

Harboe – Ree (2005: 1) opine that bibliometrics' increasing importance stems from the fact that research quality frameworks more often use a form of bibliometrics to measure quality, and national and international university ranking tables use it to

place academics and institutions. For both of these two reasons, universities are increasingly relying on bibliometric results to comprehend the research performance of in organizations. According to the author, bibliometrics has a lot to do with us today because it is fundamental to library science - we subscribe to the main citation indexes, or will sometimes be asked to subscribe or provide advice related to them: many people are being asked to contribute to their institution's RQF preparation: and many of us are involved with open access initiatives that are meant to have an impact on citation.

#### 2.4 Librametry, informetrics and scientometrics

Sengupta (1992:88), Rao and Neelameghan (1992: 243) state that the term librametry was suggested by different scholars in a series of conferences held in several different places. Ranganathan first brought it up in Leamingston spa in 1948. He suggested that it was necessary for librarians to develop "librametry and psychometry, because many issues in library work involved large numbers". However, the concept of librametry did not develop until the 1970's. Ranganathan once again discussed it in 1969 in a paper presented to the Seminar of the documentation Research and Training Centre (DRTC), where he illustrated it as an example of statistics applicable to library work service. Some of the areas in which librametric techniques can be applied were listed by Ranagathan as follows:

- When determining the optimal strength of library staff in different sections and their judicious distribution;
- In the deployment of library staff to dispose of reference queries during different library hours;
- When systematizing the circulation of library documents;
- When developing and organizing local, state, regional and national library systems;
- In determining the optimal size of a service library;
- When testing the accuracy of catalogue entries by sampling techniques;
- When ensuring the accurate selection of library documents; and

# When analyzing readers' queries.

Neelameghan outlined the scope of librametry in his paper presented to the same seminar. He noted that both bibliometrics and librametry examined the statistical distribution of processes that related to the utilization of documents, library staff, and users - the aim being to create theories on the original and management aspects of libraries.

Rao presented his paper during the 15<sup>th</sup> India IASLIC Conference on Bibliometrics held at Bangalore University in December in 1985 where he defined librametrics as "information processes and information handling in libraries and information centers by quantitatively analyzing the characteristics and behavior of documents, library staff and library users."

Sengupta (1992: 83) opines that the term 'informetrics' was introduced by Professor Otto Nacke in 1979 during a second International conference on bibliometrics and scientometrics held in London, Ontorio. In 1989, a scholar named B.C. Brookes suggested the term 'informetrics' as the most appropriate term to cover bibliometrics, scientometrics and other quantitative studies related to information science. This was followed in 1991 by a third International conference on Informetrics, held in Bangalore where 'informatrics' was used as a generic term to mean the "use and development of a variety of measures to study and analyze several properties of information in general and documents in particular". It was finally agreed on that informatrics covers bibliometrics and scientometrics.

Sengupta (1992: 84) reveals that Egghe and Roussean stated that informetrics "deals with the measurements, hence also the mathematical and modeling of all aspects of information and the storage and retrieval of information". It is a matathematical meta-information - the theory of information on information - scientifically developed with the aid of tools borrowed from mathematics, physics and computer science. Sengupta (1992:84) adds that Morales views it as a kind of scientific activity related to information thus making it an integral part of information science. All its metric aspects are designed

to improve the efficiency, flexibility and information products of information establishments while handling, storing and transferring information. Informetrics can be applied to following areas:

- Quantitative growth of literature;
- Obsolescence and scattering of information;
- Efficiency in information products and services in science and technology and production;
- The role of different kinds of documents as a means to scientifically communicate;
- Information pertinence and relevance;
- · Ranking of periodicals and serials according to various parameters;
- The role of informal channels in scientific communication:
- Overlapping of subject content between periodicals and serials; and
- Citation habits of scientists and the growing role of citation analysis.

Scientometrics can be treated as an analogue concept to bibliometrics. It originated from the USSR and was practiced in East European countries. Scientometrics encapsulates research from various walks of life - historians, philosophers, economists, scientists, etc - from different branches of physics and the natural sciences i.e. science managers and policy makers, and administrators of government and non-governmental organizations, among many others. Dobrov and Karennoi were the first to coin the term. They defined it as "the measurement of informatics processes", while Mikhilov defined it "as that scientific discipline that studies the structure and properties of scientific information and the laws of processes of scientific discipline devoted to all quantitative aspects of science and scientific research".

## 2.5 Webometrics

According to Rouseau (2008, Webometrics: a definition section) Björneborn and Ingwersen define webometrics as "the study of the quantitative aspects of the

construction and use of information resources, structures and technologies on the Web drawing on *bibliometric* and *informetric* approaches."

#### 2.6 Collaboration of authors

Authors can decide to either publish a publication individually or co-author with a colleague. When authors collaborate a relationship tends to develop. Glanzel (2003:73) notes that a recent study showed that among scientists a lot of collaboration existed within a department, research group or institution. The author lists Beaver's eighteen reasons why people tend to collaborate:

- Access to skills and expertise
- Access to equipment, resources or 'stuff' one doesn't have
- Improved access to funds
- To gain respect, admiration and recognition for professional advancement
- Efficiency, i.e. more hands and minds make it easier to learn the tacit knowledge that goes with the techniques
- To allow more rapid progress
- To be able to tackle "bigger" problems (more vital, precise, and difficult problems)
- To increase productivity
- To get to know people by creating networks i.e. like an "invisible college"
- To retool and learn new skills or techniques that enable one to break into a new field or subfield and solve problems
- To satisfy intellectual interest and the desire to learn more
- To share the excitement of being on the same page with others
- To find weakness or mistakes more efficiently
- To keep one focused, because others are counting on one to do so
- To reduce aloofness and recharge one's energy and excitement
- To educate oneself and others

- To advance knowledge and learning
- To have fun and pleasure in collaboration

#### 2.7 The role of academic librarians

Peters (1999:27) identifies the role of academic librarians as:

- An individual responsible for managing and leveraging the institutional resources that are devoted to educational and research support.
- He/she ensures that information will be available to students and the faculty on an
  equal basis, regardless of an individual's or departments' wealth by reducing
  unnecessary duplication and by facilitating inter-library-loans to enable access to
  other libraries on a no-or-low cost basis.
- Contributing to the timeliness and quality of scholarship by making it possible to locate and use information, wherever it may be.

According to Veaner (1990:63), an academic librarian makes a unique and vital contribution to higher education by:

- Bearing responsibility for developing college and university library collections and for instructing students (both formally in the classroom and informally in the library).
- Advising faculties and scholars on the use of library collections.
- Providing a variety of information services to the college or university community, ranging from answers to specific questions to the compilation of extensive bibliographies.
- Providing library and information services to the community at large
- Through his/her research into the information process and through bibliographies
  and other studies, he/she adds to the sum total of knowledge in the field of library
  practice and information science. Through membership and participation in

library and scholarly organizations, he/she works to improve the practice of academic librarianship, bibliography and information work.

- Performing a teaching and research role by advising and assisting faculties in their scholarly pursuits.
- Involving themselves in research functions many conduct research in their own professional interest while discharging while off- duty.

Veaner (1990:64) observes that in 1988 the Canadian Library Association (CLA) Canadian Association of College and University Libraries (CACUL) stated the role of academic librarians as:

- Contributors to the pursuit, dissemination and structuring of knowledge and understanding.
- Combining specialized knowledge in terms of the theoretical base of library and information science, management skills, and competence in subject disciplines in order to provide services that are vital for the educational function of their institutions.
- Dealing with wide and varied clientele, whose needs, age range and literacy skills vary considerably.
- Contributors to the instructions and research functions of their institution through the exercise of their professional knowledge/or their competence in subject disciplines.
- Functioning as facilitators, instructors and communicators in making and combining library services with teaching and/or research programs and priorities.
- Developers and evaluators of resource collections; the provision of subject specialized reference services; the acquisition, bibliographic control, storage and preservation of library collections; the development and implementation of a variety of library systems; and the provision of instruction in the exploitation of in-house resources, etc.
- Play the role of administrators, scholars, teachers, bibliographic experts or a combination of all the above.

- Upholding intellectual freedom by pursuing independent education and selfdevelopment activities, undertaking research in library science or other disciplines, and participating in college, university and professional associations.
- Professionals who have selected intellectual pursuit as their career. He/she is a
  creative partner to the faculty, researchers and students.
- Contributors to a university's intellectual framework by extending their information and organizational skills to all levels of the academic community.
- Creating, building, maintaining, managing and improving the existing information infrastructure in order to make it possible to conduct effective teaching, learning and research.
- Contributors to the achievements of their own goals and objectives within the
  constraints of the university or college mission and within the context of the
  library program as determined by campus administration and head librarians.

Veaner (1990:66) summarizes the role of academic librarians as encompassing the widest range of professional goals, duties and responsibilities, such as faculty colleague in the educational process, manager, planner, system designer, leader and supervisor, mediator, contractor, negotiator, resource allocator, writer, speaker, fundraiser, researcher, teacher, research colleague of the client, subject expert, database searcher, collection builder, budget analyst, proposal writer, statistician, consultant, telecommunications expert and entrepreneur.

Tha author concludes by stating that without academic librarians, the quality of teaching, research and public service in our universities would deteriorate, and this would make it impossible for programs in many disciplines to be performed.

## 2.8 Why academic librarians should publish

Poynter (1979:14) describes publishing as the act of preparing and issuing material for public distribution or sale, or "or placing before the public". Publications, according to the author do not need to sell and if in a book, it need not look beautiful. The most important thing is that they (the publications) are issued. Sales will depend upon the content and not the packaging.

Marjorie (2000, para.5) states that publication "is competitive" and offers a professional advantage. The more one publishes, the more one is invited to speak and hear and thus get ideas for further publishing. The cultural norm of an academic institution is based on how much one has been published in peer reviewed journals. However, academics also publish to leave their ideas behind for generations that follow, and/or to dispute the existing ideas of their colleagues.

Writing or research is both a challenge and a satisfaction. Poynter (1979: 10) underscores the value of publishing to all authors and this applies to librarians as well. According to the author, publishing can bring about prestige, recognition, wealth, and acceleration in one's career.

An academic librarian can start with a series of non-paying magazine articles that increase the librarian's visibility. The librarian can then compile this series of articles into a book. Once librarians have established credibility, they can operate seminars in their fields of expertise, command high speaking fees and issue highly-priced business consultations. Publishing can also lead to careers in teaching and consultancy work, and advising large corporations. Academic librarians who publish will find that they are in great demand - people will want their information, or simply want them around to provide assistance, and corporations will fly them in for consultations because this is cheaper than sending all their employees to experts.

Poynter (1979:11) refers to the published material as a "dream product", which generally means that coupled with publicity, the packaging and marketing of information is a

profitable product. According to the author, publicity not only sells, but also opens doors and produces more invitations that lead to opportunities that prove the academic librarian's expert status. This results in greater financial remuneration for the academic librarian. The author further maintains that people also seek experts whose opinions, advice and ideas are quoted in the media. Poynter (1979:11) opines that:

"Many people work hard at a job for 40 years and have nothing to show for it but memories and pay tubs. Some take their knowledge and write books, the result is a tangible product for all to see. A book or an article lasts forever, like a painting or a sculpture, but there are many copies of the book, not just one. Whereas a sculpture can only be admired by a limited number of persons at any one time in the place where it is displayed, books or articles come in multiple copies for all the world to use and admire simultaneously".

Curran (1990:9) agrees that money, fame, furthering one's career and the thrill of holding a bound volume with one's the academic librarian's name on the cover, or appearing on a web journal are some of the benefits of publishing. However, the author further believes that an academic librarian should wish to put words down on paper, have a strong urge to communicate ideas to other people, have something to write about, and have an audience that he/she wishes to address. Thyer (1994:3) argues that all publications are very vital to society and are viewed as archival data. Apart from individual subscription, many institutions (and their libraries) will retain these journals on their shelves for decades, where access to the journals by future researchers is virtually guaranteed.

Publishing also helps promote the academic librarians' department. Administrative superiors are often quickly informed about findings that show particular programs or departments to be highly rated. Such findings can be used as leverage in 'academic poker' that to justifies qualification for further resources such as new faculty lines, graduate funding, computer equipment, etc. If a department achieves a high status, other outstanding and talented librarians are also more likely to be attracted to the institution's library.

Scholarly productivity is a vital element because it determines whether or not a candidate can move up in the academic hierarchy. In the past, promotion was earned primarily through one's excellence in teaching, and/or in university or community service. Academic librarians should realize that this has changed; more vigorous standards of scholarship have exerted their grip, to the point that recent doctoral graduates are advised to have several articles published in order to be competitive in the academic market. A publishing record is therefore generally (literally and figuratively) more quantifiable than excellence in teaching or in service. Thyer, Poynter and Curran agree that publishing has the following advantages:

- Advancement in one's field
- The promotion of one's academic department or school
- An author will always gain financially from publishing
- Invitations to address professional meetings
- Intrinsic rewards, such as the joys of writing professionally and the pride felt
  when seeing one's work appear in the best journals, or responding to requests for
  reprints and engaging in subsequent stimulating and exciting correspondences
  with one's colleagues.

Thyer (1994:6) concludes by quoting Benjamin Franklin, who said:

"nothing gives an author so much pleasure as to find his works respectfully quoted by other learned authors".

Web publishing is increasingly becoming popular in the publishing world and Stover (1996, abstract section, par.1) believes that the WWW has great potential as a publishing medium, both for original electronic publications and mirrored (already in print) publications. According to the author, it is important for librarians to get involved in web publishing because of the following:

 Academic librarians need to support the scholarly communication process, and web publishing is a powerful symbol of their enfranchised role. Since dissemination is a function that is traditionally associated with librarians, web publishing fits well into this tradition.

- Academic librarians possess a certain measure of expertise when it comes to organizing and providing access to information. These skills can be shared with the community through the WWW.
- Web publishing provides academic librarians with a higher profile on campus, which is an important asset these days because of the changing nature of higher education and the changing role of academic librarians.
- The web provides unique access to scholarly information
- Web publishing would give the academic librarian's institution a positive reputation both nationally and internationally.
- Web publishing allows the academic librarian to bypass the profit—based system
  of print publishing that has tormented academic librarians for years, since it
  eliminates one of the main intermediaries (the print publisher) between author and
  reader (Stover, 1996, the value of the librarians as publishers on the web section).

The role of the librarian continues to change, and with the high prioritization of publishing in today's academic climate, librarians in Africa and other parts of the world should take notice.

## 2.9 Related studies on publication patterns and output of academic librarians

Scanning through the Library and Information Science Technology Abstract (LISTA) and Library and Information Science Abstract (LISA) databases revealed that in Africa, a study of this kind had yet to be carried out. The closest found was a study by Uzun (2002), who analyzed 21 core journals in the field of Library and Information Science from developing countries and economic European countries to establish the nature of research in the two geographical areas. Onyancha (2007) also carried out nearly a similar study, in which Library and Information Science records produced by researchers in Africa between 1986 and 2006 were analyzed. Ocholla and Ocholla (2007) also examined the publication count and analyzed peer refereed articles indexed in South

Africa in Library and Information Science between 1993 and 2006. However, similar studies have been conducted in the United States of America and Malaysia. For instance, a study by Hart (1996) examined the aggregated publishing record of the librarians at Penn State University, an institution that requires publication as a condition for continued tenure. Hart used the survey questionnaire method to collect data. Noteworthy observations that emerged from the study were as follows:

- Penn State's librarians were quite productive in terms of the number of publications they contributed to literature, and were strongly committed to research.
- An increasing demand for publication had served to influence both the quality and quantity of librarians' publications in recent years.
- Of the librarians who answered the questionnaires, 95% agreed, 73% strongly agreed, and 22% moderately agreed that publishing expectations had increased over the past fifty to twenty years.
- The most common form of publication was journal articles there were 203 refereedd journal articles and 128 non- refereed journal articles, and these combined to make up 62% of the total publications.
- On average, each Penn Librarian had produced slightly more than 9 publications, including articles, books chapters, conference proceedings and books.
- 80% reported that they were working on a project that they expected would lead to publication (Hart, 1996).

Onyancha's (2007) study on "LIS research in Africa: how much is it worth? A citation analysis of the literature, 1986 – 2006". The researcher used two sources of data namely ISI Web of Knowledge (i.e. SCI and SSCI) and EBSCO (i.e. LISTA) to extract data.

- The leading country was South Africa which produced a total of 439 records followed by Nigeria (259), Botswana and Ghana were ranked number three with 59 records each. Kenya (37) was fifth, followed by Egypt (36), Swaziland (29) and Ethiopia (25).
- Of the 53 African countries only 26 authored at least one LIS record each between 1986 – 2006.

- South Africa's contribution accounted for a merely 0.46% of the total national output and 2.76% of the world's total Library and Information Science output, Nigeria (1.22%, 1.63%) Botswana (3.33%, 0.37%), Ghana (1.87%, 0.37%) and Kenya (0.31%, 0.23%)
- The highest national contribution was recorded by Swaziland (4.32%) as regard to LISTA.
- Each country's contribution fell below 0.1%, South Africa recorded the highest contribution of (0.0658%), followed by Nigeria (0.0238%), Botswana (0.0112%), Ghana (0.0083%), and Kenya (0.0050%).
- South Africa received the highest citations, followed by Nigeria (232), Egypt (92), Botswana (48), and Kenya (45), Ghana (38), Ethiopia (37), Swaziland (33), Tanzania (32) and Zambia (15). Algeria, Angola, Sierra Leone and Tunisia received no citation.
- In terms of ranked relative performance of each African country Algeria emerged in first position (146/188, rp<sup>2</sup>= 0.78).
- Lawan SM(43) emerged the most cited record in Africa
- Out of the top 34 cited records 23(67.6%) emanated from South Africa, South Africa yielded 6(17.6%) followed by Egypt and Kenya which produced 2(5.9%) each and Tanzania (1, 2.9%).
- There were a total of 70.16%) uncited records in South Africa of the total LIS records produced by LIS researchers in the country. South Africa, Nigeria, Botswana, Ghana, Kenya, Swaziland, Zambia, Uganda, Namibia, Benin and Algeria recorded more uncited than cited records.

Ocholla and Ocholla (2007) carried out a study on "Research in library and Information Science in South Africa: an analysis of journal research outure from 1993 – 2006". The data analyzed in this study was extracted from LISA (Library and Information Science Abstract database and ISI Web of Science (i.e SSCI) and Arts and Humanities Citation Index File (A&HSI) databases. The results found were as follows;

<sup>&</sup>lt;sup>2</sup> rp stands for relative performance

- A total of 157 journals generated 1216 articles, of the 157 87(54.4%) and 70(44.6%) were indexed by LISA.
- The South African Journal of of Libraries and Information Science and the South African Journal of Information Management and Mousaion were the three most leading journals.
- The top 4 most productive authors did not reside in South Africa
- All top 10 authors indexed in LISA, except one, resided in South Africa
- The highest citation ration originated from Behrens
- Dorminant research areas were management (43), Information retrieval (119), Information Science(107), ICTs(97), Education and Training (89) and Information Dissemination (72)
- A total number of 145 South African authored articles were published either by single authors or co- authored of these individual authored were(31%), two authors appeared (53.8%) times, three authors (11.8%) and four authors (2.8%)
- 55% of the articles were internally authored and 45% externally authored.

Bahr and Zemon (2000) conducted a study on "Collaborative authorship in the journal literature perspective for academic librarians who wish to publish", which aimed to establish the extent to which college librarians publish articles. The research aimed to identify collaborative articles by university librarians, collaborative patterns and the status of each collaborative partner. They found that university librarians were the greatest contributors to the field's premier research journals and their most significant collaborators. The authors found that of the 399 articles in C & RL from 1986 to 1996, 159 (40%) were written collaboratively, 133 were written by university librarians, and 84% of the collaborative articles were by university librarians. The two authors observed that the most common form of collaboration was cross-gender collaboration among both college and university librarians. They noted that when the issue of who collaborates with whom was raised, the most common partner of a university librarian was another university librarian. Of the 185 authors contributing towards the 133 collaborative articles in C & RL, 124 (67%) were university librarians, 19 (10%) were faculty librarians, 18 (10%) belonged to the library science faculty, and 24 (13%) were designated as others.

The pattern persists in JAL of the 99 authors responsible for 78 collaborative articles, 73 (74%) were university librarians, 9 (9%) were faculty librarians, 8 (8%) belonged to the library science faculty, and 9 (9%) were others. The collaborative articles librarians wrote for JAL and C & RL had a total of 40 authors – 18 college librarians and 22 collaborative partners. Of the 22 partners, 8 were university librarians, 5 were college librarians, 6 were faculty, 1 was library science faculty, and 2 were other.

Weller et al. (1999) carried out a more general study on the publication pattern of United States academic librarians from 1993 to 1997 by examining the contribution of academic librarians in the U.S to Library and Information Science peer reviewed literature. The following was noted:

- 1,579 (43.6%) were authored by at least one academic librarian. In total, there
  were 5,477 instances of authorship, and 2,032 of these constituted academic
  librarian's names.
- The most productive library belonged to Pennsylvania State University which had
   35 authors who had authored 46 articles
- Harvard University was the least productive, with 16 authors who had authored 14 articles.
- 43.6% of all published peer-reviewed articles were written by at least one academic librarian.
- More than 1/3 (36.5%) of co-authored and multiple authored articles show collaboration, either within or between institutions. Single authorship is the norm, although co-authorship is very vital. Collaborative endeavors amongst librarians and non-librarians occur within and across institutions. In all, literature in Library and Information Science has many types of authors (Weller et al., 1999).

In terms of research methodology, a study entitled "Motivating librarians to conduct research" by Verzosa (2008) used the survey method to establish why librarians do not carry out research and what professionals could do to improve the situation. Verzosa noted that:

- 15% of the librarians who gave reasons for not reading research-based articles said that they did not have enough expertise in research methods.
- 50% indicated that their master's degree program adequately prepared them to read and comprehend research-based publications.
- Only 4 out of 10 were given time to conduct research. Of these 4, only 2 said that they would conduct research.
- Only 50% of the research conducted was published
- In terms of support, about 50% were given time off, 25% got internal funding and 15% received external funding.
- Only 50% occasionally did, while 25% seldom and 15% frequently applied their research to their practice.

The results of Yazit and Zainab (2007) employed the bibliometric technique and collected data from seven online databases and seven well established OPAC'S for their study entitled "publication productivity of Malaysian authors and institutions in Library and Information Science." The results of Yazit and Zainab's study indicated that:

- Malaysian Library and Information Science authors preferred to publish in journals (511, 48.9%) and conference papers (474, 45.4%).
- Publication distribution declined over the 41 year period but the moving average depicted a steady incremental trend
- A total of 506 authors contributed to 1, 045 publications and 309 were one-time authors.
- Active authors in Library Information Science were affiliated to 131 institutions.
- Productive institutions were the National Library of Malaysia, University of Malaysia Library, and the academics at the Masters of Library and Information Science programme, University of Malaya.
- Publication productivity was related to institutional active involvement in Library and Information Science journal publishing.
- Popular subjects in research were collection development, development and management, information centers and services, and ICT applications in Library and Information Science.

As mentioned earlier, Uzun (2002) conducted a study entitled "Library and Information Science research in developing countries and Eastern European countries: a brief bibliometric experience," using bibliometric methods to analyze data and survey an item-by-item selected set of 21 core journals in Library and Information Science for the period spanning 1980 – 1999. These journals were indexed in the Social Science Citation Index (SSCI). The author established that:

- 826 (7.9%) out of a total of 10400 articles published in 21 journals were from Developing Countries or the Economic European Union.
- The number of articles with authors from China, Saudi Arabia, Turkey, Botswana, Ghana, Kuwait and Taiwan significantly increased, while those of India, Nigeria, Pakistan, Brazil and Poland decreased.
- Among the countries featuring decreasing trends in the numbers of articles,
   Library and Information Science research received high recognition in Nigeria and Pakistan. In terms of increasing trends in articles, low priority areas were China, Turkey and Taiwan.
- A co-word analysis based on the keywords and thematic noun-phrases in the
  titles and abstracts of a sampled 102 articles published between 1996 and 1999
  (the author did not discuss the period between 1980 and 1996) showed that
  bibliometrics was the most frequent topic in Library and Information Science in
  major Developing Countries and European Economic Countries.
- Information retrieval, information needs and information use were among the topics that received relatively high interest form researchers working in Developing Countries in Asia and Africa (Uzun, 2002).

The above studies reveal that the research productivity of librarians in the field was of paramount importance. From these studies, it was encouraging to note that professionals in the field are carrying out and are committed to research. There was an indication that similar studies of this nature had been carried out before. Important to however were the similarities and differences of these studies in relation to this particulat study. These issues were as follows:

The first study by Hart (1996) was similar to this study, for instance, it examines the scholarly output of academic librarians in the field of LIS and the type of publication published. However, differences noted were the fact that this study was not a bibliometric study, type of document published by these academic librarians were not analyzed, the research did not also address the subject content of the publications and the study was confined to Penn University in the United States of America.

Onyancha's (2007) study was also based on the research out put in LIS, LISTA online database was one of the databases used to extract data, Countries examined in this study featured, these were Botswana, Ethiopia, Kenya, South Africa, Somalia, Sudan, Swaziland, Tanzania, Uganda, Lesotho, Zambia and Zimbabwe. Finally this study was a bibliometric/informetric study.

Differences noted were as follows: all categories of LIS researchers were included in the study; Many (53) African countries were included in the study; The type of document and subject content of the document were not studies; nature of collaboration of these researchers was not discussed; the journals where these records appeared did not form part of the study; other issues not discussed were; the the period studied was between 1986 to 2006, which meant that it was wider (21 years) and publication published earlier than 1990 were also considered. This study also concentrated on citation analysis of LIS records.

Ocholla and Ocholla (2007) study was also similar in that it examined research output in LIS; the nature of collaboration; this study was also a bibliometric study; subject content of articles in the articles were analysed; the most productive issue was also dealt with; journals that published most records were discussed and collaboration also featured in the research.

It was noted that this study was only confined to LIS researches recorded in journals; it did not address the type of document published, the study was limited to the period from 1993 to 2006; and entirely different online databases were used to extract data.

Weller *et al* (1999) study addressed the following similar issues; the study examined the research output of LIS; publication pattern of United States of America academic librarians in universities; and the nature of collaboration of academic librarians.

This study, however examined only articles published in LIS; the study was not a bibliometric study and it was confined to the period from 1993 to 1997.

Bahr and Zemon (2000) study had very few similarities and differences to this study, in relation to similarities; it was observed that these researchers also examined collaboration of academic librarians in LIS research production. The targeted population was academic librarians.

The study was however, confined to the period from 1986 to 1996 and only United States of America academic librarians were targeted for the study. This study was not a bibliometric study.

Yazit and Zainab (2007) study had the following similarities: just like the above studies, it sought to examine the research output in LIS field; it was a bibliometric study, and issues such as subject coverage and sources of the published work were examined; online catalogues were used to extract data. The study however, was confined to the period from 1965 to 2005, this meant much wider period was studied (41 years) and 2006 was not included; over six online databases were used (i.e. Library Literature, Library and Information Science Abtract Network (LISAnet), Springerlink, Educational resource centre (ERIC) etc.); and only targeted Malayasian authors published in Malaysian as well as abroad.

Uzun (2002), similarily examines the output of research in LIS field; just like in this study only Botswana featured among the countries studied; and this was also a bibliometric study.

The study was different in that only core journals in the field were examined; it was confined to the period from 1980 to 1999, which meant that the study dealt with publication published earlier than 1990 and did not also examine those published after

1999; co- authorship was apparently also the interest of this researcher; countries examined were from Africa, Asia; and subject content of the articles were examined.

Finally, Verzosa (2008) just like all the other researchers mentioned above examined the publication output in the field of LIS; Important to note though, is the fact that publications were not analysed but individual outputs of librarians was examined; and the study was confined to librarian in the Philipines.

## 2.10 Summary

The term 'bibliometrics' was found to have first been coined by a scholar named Pritchard. A number of scholars have provided different but related definitions as to what the term 'bibliometrics' means. Herubel (1999: 380) summed up bibliometrics "as a quantitative analysis of publications for the purpose of ascertaining specific kinds of phenomenon". Other terms related to bibliometrics are informetrics, scientometrics, librametry and webometrics. Rousseau (1990) summarized the early development of bibliometrics in a chronological manner, popularly known as the Timeline of bibliometrics. The chapter also noted that many reasons prompt authors to collaborate and that academic librarians play a significant role in their day-to-day work in libraries. As with other scholars in different notable professions, librarians stood to gain enormously if they engaged in publishing. Previous studies indicate that librarians publish in countries such as the United States of America, Malaysia, and in a number of European and developing countries. It was found that studies to this effect have not been done in Eastern Africa and Southern Africa. The subsequent chapters therefore sought to determine the publication patterns and output of these two regions as revealed by the findings.

#### CHAPTER THREE

#### RESEARCH METHODOLOGY

#### 3.1 Introduction

This chapter discusses the research methods used in this study. The discussion includes the target population, sample size and sample frame, instruments used, data collection procedure, and data analysis.

### 3.2 Research Methodology

Mcmillan and Schumacher (2006:9) define research methodology (or research methods), as the way in which one collects and analyses data. Data may be collected using different measurement techniques, extensive interviews, observations and/or through the review of a set of documents. The two authors note that research methodology is systematic and purposeful, meaning that the procedures are not haphazard and are planned to yield data on a particular problem. The term 'methodology' according to the two authors, refers to a design wherein the researcher selects a form of data collection and then analyses the product in order to investigate a specific research problem. This study employs the bibliometric approach, content analysis and quantitative methods to analyse and obtain data on the research and publication patterns and output of academic librarians employed in public university libraries in Eastern and Southern Africa.

#### 3.3 Bibliometrics as a Research Method

Goddard and Melville (2001:16) define a research method as a way of specifying how one can go about finding solutions to problems and what steps should be taken in order do so. This study employs bibliometrics as its research method. Twining (2001:70) states that bibliometrics is a method that utilizes quantitative analysis and statistics to

investigate, among other aspects of information, patterns of the information-knowledge transfer process. It is based on the enumeration of scientific data in the form of articles, publications, patents and citations. Bibliometrics' uses range from determining the level and nature of collaboration between scientists and disciplines, to examining cognitive (i.e. human, mechanical, and neural network) development. Ungern-Sternberg (1995, par.1) posit that bibliometrics consists of several specific research methodologies, i.e. citation counts and analyses, bibliometric coupling, co-word analysis, and webometrics. Bibliometrics was discussed in detail in the previous chapter.

The study also employed content analysis in its data collection. Content analysis is defined by Krippendorff in Wilkinson and Birmingham (2003:68) as a research technique that makes replicable and valid inferences from data to a study's content. The documents studied were online journals, printed journals, books and journal articles (e.g. *Libri* articles). Search engines were used to access electronic documents for chapters one and two of this study. Other documents sourced for content analysis were obtained from two online databases (i.e. LISTA and WORLDCAT). Websites belonging to university academic libraries were accessed for academic librarians' names.

## 3.4 Target population

Neuman (2006:225) defines the population of a study as a larger pool of cases or elements, e.g. people, businesses, commercials, animals, etc. Goddard and Melville (2001:34) define a population as any group that is the subject of research interest. However, Welmar, Kruger and Mitchell (2005:57) describe a target population as the population on which the researcher would like to generalize his/her results. Hence, this research targeted all academic librarians that were holding a bachelors degree and above and who, at the time of the study, were employed in Eastern and Southern African public university libraries. Where the degree was not indicated, staffs holding job titles such as librarian and above (i.e assistant librarian, Sub-librarian, chief librarian, subject librarian, head of department etc.) were included in the study. The total target population is illustrated in the table below.

Table 2: Target population of the study

| EASTERN  | LIBRARY                           | TP <sup>3</sup> | SOUTHERN   | LIBRARY                                    | TP  |
|----------|-----------------------------------|-----------------|--|--|-----|
| AFRICA   |                                   |                 | AFRICA   |  |     |
| Ethiopia | Alemaya University of Agriculture | 2               | Botswana   | University of Botswana                     | 49  |
| ganda    | Makerere University               | 20              | Lesotho  | University of Lesotho                      | 17  |
| Kenya    | Egerton University                | 2               | Malawi   | University of Malawi                       | 5   |
|          | Kenyatta University               | 7               |  | University of Mzuzu                        | 9   |
|          | Moi University                    | 17              | Namibia  | University of Namibia                      | 15  |
|          | University of Nairobi             | 24              | South Africa   | Cape Peninsula University of<br>Technology | 15  |
| Somalia  | Somalia National University       | 0               |  | Central University of Technology           | 7   |
| Sudan    | University of Khartoum            | 3               |  | Durban University of Technology            | 56  |
| Тапzапіа | Mzumbe University                 | 3               |  | Mangosuthu Technikon                       | 23  |
|          | Sokoine National Agricultural     | 14              |  | Nelson Mandela Metropolitan<br>University  | 36  |
|          | Open University of Tanzania       | 8               |  | North – West University                    | 19  |
|          | University of Dar es salaam       | 11              |  | Tshwane University of Technology           | 29  |
|          |                                   |                 |  | University of Cape Town                    | 56  |
|          |                                   | I I             |  | University of Johannesburg                 | 18  |
|          |                                   |                 |  | University of Free State                   | 15  |
|          |                                   |                 |  | University of Fort Hare                    | 19  |
|          |                                   |                 |  | University of Kwa Zulu Natal               | 50  |
|          |                                   |                 |  | University of Limpopo                      | 13  |
|          |                                   |                 | To a second seco | University of Pretoria                     | 114 |
|          |                                   |                 |  | University of Rhodes                       | 5   |
|          |                                   |                 |  | University of South Africa                 | Il  |
|          |                                   | :               |  | University of Stellenbosch                 | 16  |

<sup>&</sup>lt;sup>3</sup> TP stands for Total population

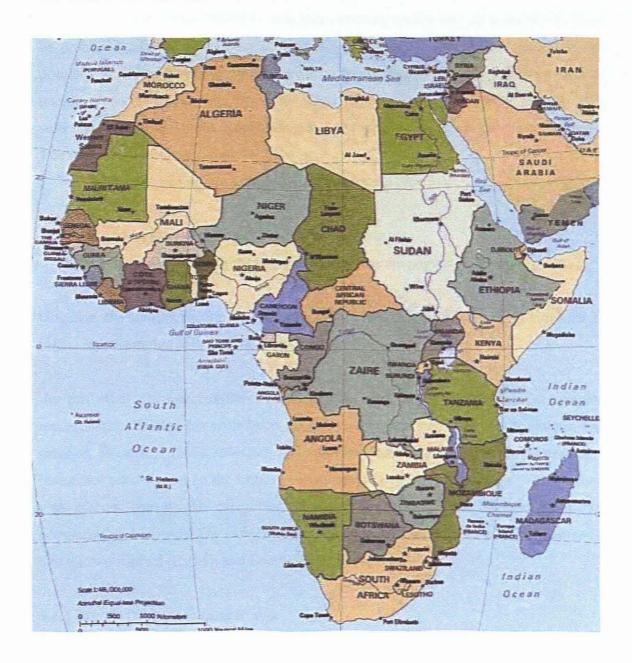
|       |     |           | University of Western Cape                | 21  |
|-------|-----|-----------|---|-----|
|       |     |           | University of Witswatersrand              | 34  |
|       |     |           | University of Venda                       | 7   |
|       |     |           | University of Zululand                    | 12  |
|       |     |           | Vaal University of Technology             | 13  |
|       |     |           | Walter Sisulu University of<br>Technology | 1   |
|       |     | Swaziland | University of Swaziland                   | 12  |
|       |     | Zambia    | University of Zambia                      | 14  |
|       |     |           | Copperbelt University                     | 11  |
|       |     | Zimbabwe  | Midlands State University                 | 22  |
|       |     |           | University of Zimbabwe                    | 9   |
|       |     |           | Zimbabwe Open University                  | 2   |
| TOTAL | 111 |           |   | 755 |

The target population consisted of 111 librarians from the East African region and 755 librarians form Southern Africa, amounting to a total of 866 academic librarians.

# 3.5 Study area

Two regions on the continent constituted the study area, i.e. with six countries from Eastern Africa (Ethiopia, Kenya, Tanzania, Somalia, Sudan, and Uganda) and eight countries from Southern Africa (Botswana, Lesotho, Malawi, Namibia, South Africa, The Kingdom of Swaziland, Zambia and Zimbabwe). As indicated earlier countries such as Angola, Madagascar and Mozambique were excluded because of the reason mentioned in section 1.8. The locations of these countries are illustrated in the figure below.

FIGURE 1: MAP OF AFRICA SHOWING THE COUNTRIES THAT CONSTITUTED THE STUDY AREA



Source http://www.rebirth.co.za/images/map of Africa.jpg

## 3.6 Sampling

Bless and Higson-Smith (2000:84) state that sampling means leaving certainity in favor of probability. Payne and Payne (2004: 209) elaborate by stating that since it is not possible to study everything, sampling has to be applied in order to select a subset of people or social phenomena from the larger 'universe' to which they belong. This selection, the authors reveal, would either lead to representative cases for the entire study. The advantages of sampling are as follows:

- Collecting data from a sample does not consume time
- It is less costly
- Sampling is the only logical way to collect data
- It is the only possible way to collect data when the population is large

However, the authors caution that there are limitations that arise from sampling, such as biases in the sampled list of the target population.

In this study, non-probability sampling was used in order to achieve adequate representation. Under non-probability sampling, the purposive sampling technique was selected. Walliman (2001:234) defines purposive sampling as a method wherein the researcher selects what he/she thinks is representative of a typical sample. This method was used to sample the categories of academic librarians that formed the target population of this study. The same method was used to sample public academic libraries, and the two regions (Eastern and Southern Africa) in Africa.

### 3.6.1 Sample frame and sample size

Welmar, Kruger and Mitchell. (2005: 57) posit that a sample frame is a list in which each unit of analysis is mentioned only once. The authors note that unless such a sampling frame is borne in mind it is impossible to judge the level of representativeness. Neuman (2006:201) states that a researcher samples a population by developing a specific list that closely approximates all the elements in the population. This list is the sample frame. The

sample size according to Delving (2006:56), will be drawn from the same frame. This involves making judgments about the number of participants needed to carry out the study. Gray (2004: 85) describes it as the range of figures between which the population parameter is expected. From the two regions, the following public university libraries constituted the sample frame.

TABLE 3: PUBLIC UNIVERSITY LIBRARIES

| REGION             |   |  |  |  |
|--------------------|---|--|--|--|
| EASTERN<br>AFRICA  | COUNTRY                                 | NO.  | NAME OF LIBRAY                                     |  |
|                    | ETHIOPIA                                | 1  | Alemaya University of Agriculture Library          |  |
|                    | KENYA                                   | 2  | Egerton University Library                         |  |
|                    |   | 3 Kenyatta University Library              |  |  |
|                    |   | 4 Masinde Muliro University of Science and |  |  |
|                    |   | Technology Library                         |  |  |
|                    |   | 5 Moi UniversityLibrary                    |  |  |
|                    |   | 6  | University of Nairobi Library                      |  |
|                    | SOMALIA                                 | 7  | Somalia National University Library                |  |
|                    | SUDAN                                   | 8  | University of Khartoum Library                     |  |
|                    | TANZANIA                                | 9  | Mzumbe University Library                          |  |
|                    |   | 10   | Open University of Tanzania Library                |  |
|                    | An and Andrews of the                   | 11   | 1 Sokoine National Agricultural University Library |  |
|                    | And | 12   | University of Dar es Salaam Library                |  |
|                    | UGANDA                                  | 13   | Makerere University Library                        |  |
| SOUTHERN<br>AFRICA |   |  |  |  |
|                    | BOTSWANA                                | 14   | University of Botswana Library                     |  |
|                    | LESOTHO                                 | 15   | University of Lesotho Library                      |  |
|                    | MALAWI                                  | 16   | University of Malawi Library                       |  |
|                    |   | 17   | University of Mzuzu Library                        |  |
|                    | NAMIBIA                                 | 18   | University of Namibia Library                      |  |
|                    | SOUTH<br>AFRICA                         | 19   | Cape Peninsula University of Technology Library    |  |
|                    |   | 20   | Central University of Technology Library           |  |
|                    |   | 21   | Durban University of Technology Library            |  |

|           | 22 | Mangosuthu Technikon Library                   |  |
|-----------|----|--|--|
|           | 23 | Nelson Mandela Metropolitan University Library |  |
|           | 24 | North – West University Library                |  |
|           | 25 | Tshwane University of Technology Library       |  |
|           | 26 | University of Cape Town Library                |  |
|           | 27 | University of Johannesburg Library             |  |
|           | 28 | University of Free State Library               |  |
|           | 29 | University of Fort Hare Library                |  |
|           | 30 | University of Kwa Zulu Natal Library           |  |
|           | 31 | University of Limpopo Library                  |  |
|           | 32 | University of Pretoria Library                 |  |
|           | 33 | University of Rhodes Library                   |  |
|           | 34 | University of South Africa Library             |  |
|           | 35 | University of Stellenbosch Library             |  |
|           | 36 | University of Western Cape Library             |  |
|           | 37 | University of Witwatersrand Library            |  |
|           | 38 | University of Venda Library                    |  |
|           | 39 | University of Zululand Library                 |  |
|           | 40 | Vaal University of Technology Library          |  |
|           | 41 | Walter Sisulu University of Technology Library |  |
| KINGDOM   | 42 | University of Swaziland Library                |  |
| OF        |    |  |  |
| SWAZILAND |    |  |  |
| ZAMBIA    | 43 | Copperbelt University Library                  |  |
|           | 44 | University of Zambia Library                   |  |
| ZIMBABWE  | 45 | Midlands State University Library              |  |
|           | 46 | University of Zimbabwe Library                 |  |
|           | 47 | Zimbabwe Open University Library               |  |

The sample size constituted a total of 47 public university libraries, 13 were Eastern Africa's and 34 from Southern Africa. Only University that provided the names of academic librarians were included in the sample size (see 3.11 bullet 9).

### 3.7 Instruments of data collections

The following instruments were used to carry out the research;

### (i) Databases

Sinclair (1997:109) defines a database as a collection of data items in a file used by programs that copy and alter items, but whose actions are not restricted by the way in which the item is stored. A database of any size would be kept on a hard, compact or floppy disc. The database would then be continually updated.

The following two databases were used to retrieve the data necessary for this study, i.e. the WORLDCAT and LISTA databases, and were selected according to the subject and type of the document indexed the time period the databases covered; the size of the database (how much it describes/indexes or contains) and their availability.

EBSCOHOST - this is a gateway (interface) to numerous online databases. The database selected from this host database was the Library and Information Science and Technology Abstract (LISTA) (2007, Google). LISTA provides full-text journal articles and an index of books, research reports and conference proceedings. Subjects covered include librarianship, classification, cataloguing, bibliometrics, online information retrieval, information management, search engines, printed and electronic information sources, the information industry, scholarly communication and electronic publishing. LISTA with full text coverage extends back to the mid 1960s.

FIRSTSEARCH - this database has a collection of over sixty databases covering all subjects. Each FIRSTSEARCH database can be searched separately, and some of FIRSTSERACH's databases are Dissertation Abstracts, Books-in-print, WorldCat, WilsonSelect. Article first and many more (2003, New Mexico State University). Data for this research was obtained from THE WORLDCAT database. WORLDCAT is a

world wide library catalogue hosted by the FIRSTSEARCH database. The database describes over 41 million books and other materials (videocassettes, CDs, etc) from libraries worldwide (2007, Mundt, Literary and Learning Commons World).

### (ii) Internet

The Internet was consulted widely and proper references are provided in cases where it was used. Lojkine (2003:9) defines the Internet as a computer network that spans the globe. It consists of millions of computers that are physically connected via wires cables and satellite connections in order to allow information to pass from one computer to the next. Lojkine reveals that the Internet provides numerous services, one of which is the World Wide Web (WWW), which consists of millions of magazine-styled pages packed with text, pictures, sounds, animations and video clips.

The Internet facilitated online access and interaction with databases and websites.

Academic librarians' names and electronic journals were accessed through the Internet.

#### 3.8 Data collection procedure

Blanche and Durrheim (2002:46) state that data is the basic component of research. In order to draw conclusions in a study it is essential for the researcher to have sound data to analyse and interpret. The data captured should also be valid. A number of methods are available for data collection, examples of which are questionnaires, interviews, observation and document reviews etc. This study used document reviews together with content analysis. The procedure used to collect the necessary data was as follows:

## (i) Identification of Public University Libraries

In order to establish which academic libraries are hosted by public universities in Eastern and Southern Africa, the researcher consulted the *Europa Book of the year*. 2007 - Volume 1 and 11. These books are available from the University of Zululand

library. The books list all public universities found in countries within the two regions and indicate their status (i.e. whether the university is public or not). They also provide a list of the libraries found in these universities. Another source that proved to be useful was *Wikipedia*, the free encyclopedi which is freely available on the Internet.

# (ii) Identification of academic librarians' names

The main purpose of this study was to establish whether academic librarians in public universities in Southern and Eastern Africa publish, or carry out research. In order to achieve this, it was necessary to obtain all the names of academic librarians who are holding a bachelors degree and/or above. The Internet again proved useful. The websites of each university provided the names of these librarians. The procedure used to retrieve the names of librarians was as follows:

- i) Use the Google search engine
- ii) Search for the "University of Zululand website" in South Africa for example
- iii) Go to the library webpage
- vi) Click on the library staff icon, the list of library staff appears

The names were subsequently listed in a table (See appendix B)

### (iii) Creation of a master list

A master list with the following fields was then created:

- a. Author
- b. Title of document
- c. Year of publication
- d. Subject of document
- e. Type of document
- f. Journal
- g. Collaboration

- h. Affiliation
- i. Number of documents

## (iv) Downloading of data

The following procedure was used to download data for this particular study

# (v) Keywords used

The full name of each academic librarian was used as a keyword to search all three databases for any publication that may have been published by the said academic librarian (see appendix B). In process of downloading data, it was noted total number of publication of an individual academic librarians varied when the names were interchanged (i.e Inoti, V.I., or V.I. Inoti or Inoti, V.) during searching. This variation was soughted out by employing various search strategies provided by the two databases. For instance LISTA database allowed the use of search operator "or" (i.e "Inoti, V." or "Inoti, V.I.). Use of one single author's names was also possible. WORLDCAT database similiarily allowed use of author's two names in full all initials (i.e. Edda Lwoga or E.T.Lwoga)

The data retrieved was finally recorded in a spreadsheet and analyzed according to the research questions indicated in the master list.

### 3.9 Data analysis

Bless and Higson-Smith (2000:137) reveal that the process of data analysis takes different forms depending on the nature of the data itself. Before the quantitative analysis of data was undertaken, duplicate data was deleted from the master list (see appendix). Quantitative data is often analyzed using a range of descriptive and inferential statistical procedures. Data was analyzed and presented in percentage and frequency form, and

thereafter illustrated in charts (e.g. pie, line, bar graph etc) and tables using Microsoft Excel.

### 3.10 Pilot study

Aina (2002:40) states that the purpose of a pilot study is to act as 'the dress rehearsal' of the main study, and thus help clarify potential problems. Also known as a pre-test it generally provides a lead on the effectiveness of questionnaires, the code chosen for precoded questions, and the probable cost and duration of the main study in its various stages.

A pilot study was carried out prior to this study to compare the research and publication patterns and output of academic librarians in Eastern and Southern Africa from 1990 to 2005. It concentrated on three university libraries in Kenya i.e. Nairobi University, Moi University and the Masinde Muliro University of Science and Technology; and four public universities in South Africa., i.e. University of Kwa-Zulu Natal, University of Zululand, Durban University of Technology and Mangosuthu Technikon.

In the course of the pilot study some library webpages were found not to include the names of their staff, and others provided the names, but did not indicate the qualifications. The researcher also sometimes experienced problems with Internet access. Data was analyzed and presented in tabular and chart form. It was clear that academic librarians in the two countries engage in research. However, it was noted that Kenyan academic librarians publish more than their South African counterparts. Therefore, in addition to other recommendations, the study stipulated that South African academic librarians should significantly increase their output, and that despite being marginally better, Kenyan academic librarians should do the same.

#### 3.11 Problems encountered

The following problems were encountered in the cause of the study:

- Although it would have been interesting to include other regions in Africa, the time frame, language barrier and limited resources (human, financial and other) meant that this was impossible.
- The study was to take a period of one year, which wasn't enough time to cover a
  wider period. The researcher therefore, felt that a clearly delineated period would
  provide ample and accurate data.
- Inability to individually subscribe to the databases required for this study meant
  that the researcher had to rely on the library which provided it free although it was
  inaccessible only when the library was open.
- Poor Internet access due to slow network conections caused by constant power cuts, the closure of the library during holidays and disconnection resulting from technical problems within the university's ICT department.
- The databases sometimes took too long to open, search and display data.
- University librarians occasionally do not update their webpages
- The researcher found limited information related to this study.
- Some university webpages did not include the names, qualifications, or designation of their library staff, e.g. Kenyatta University, Jomo Kenyatta University of Agriculture and Technology, Egerton University, and Maseno in Kenya. Sudan had twenty universities but only one provided a list of its librarians (Khartoum University). Only one (Makerere University Library) University library in Uganda provided a list of its library staff, while three (Kyambogo University Library, Gulu University Library and Mbarara University Library) did not.
- In South Africa, the Kwa Zulu Natal University library, Durban University of Technology Library and Free State Library provided list. However, the qualifications of the librarians were not provided. The Walter Sisulu University of Technology and Science Library, also in South Africa, did not provide the names of the librarians. In Zimbabwe, the Bindura University of Science Education Library and National University of Science and Technology Library also did not provide the names of the librarians.

- Some university websites such as the University of Limpopo in South Africa,
   Egerton University in Kenya and various websites in Sudan took a very long time to open and this proved frustrating to the researcher.
- The geographical distance between the various libraries made it impossible for the
  researcher to physically visit them. The researcher therefore used the e-mail
  service in order to obtain the required information. However, none of them
  responded to the e-mails.
- Somalia does have a public university, although it was not operational at the time of writing.
- Africa lacks an electronic bibliographic database for capturing and indexing all research documents. Only South Africa had an electronic bibliographic database known as SABINET, forcing the researcher to rely on International databases such as LISTA and WORLDCAT to collect data.
- There was a lack of consistency in the databases when recording the authors' names. For example, on university library webpage, an academic librarian may bear three names, while only two names appear on the research document.
- The WORLDCAT database does not indicate the affiliation of the authors, and because of this the researcher had to rely on LISTA (in cases where the same publication was indexed by both databases), which does, The WORLDCAT database did not provide the keywords for some of the research publications, forcing the researcher to provide them.
- The LISTA database does not update the affiliation of the author on some occasions for example when the author changes his/her employer.

Despite all these problems, the researcher ensured that the quality of this study was not compromised by ensuring that data was collected when the library was opened and preparation of the data done later. The researcher also relied on academic librarians names that were provided by public libraries listed in table 3. The researcher also realized that university websites and databases sometimes proved to slow opened faster during the day, opened faster during the night and weekends, therefore this time was utilized well to fasten collection of academic librarian's names.

## 3.12 Summary

This chapter presented a detailed account of the strategy and methodology according to which this study was conducted. The pilot study only sampled four academic libraries in South Africa and three in Kenya and the results could therefore not meet the objectives of this study. The following gaps existed in this study: Academic librarians holding diploma qualification did not form part of the study; and some countries and public universities were not included in the study because of the reason cited in section 3.11 bullet 9 & 10. In the cause of developing a research methodology the researcher realized that Africa lacked an online bibliographic database and in order to solve this problem two international database were selected for this study. The issue of varing academic librarian's was dealt with in this chapter.

The next three chapters attempt to achieve the research objectives by providing and analyzing data on the comparison of publication patterns and output of academic librarians in the two selected regions.

#### CHAPTER FOUR

### DATA ANALYSIS AND PRESENTATION

### 4.1 Introduction

This section answers the following objectives. However, objectives objective bullet 2 is not covered in this section [see section 2.8].

- To examine what academic librarians publish[see 4.8 and 4.9];
- To establish why academic librarians publish;
- To study the publication trends of academic librarians[see 4.7];
- To determine where academic librarians publish[see 4.2 and 4.6];
- To determine the level at which they collaborat[see 4.10];
- To establish the quantity of publishing [see 4.4 and 4.5].

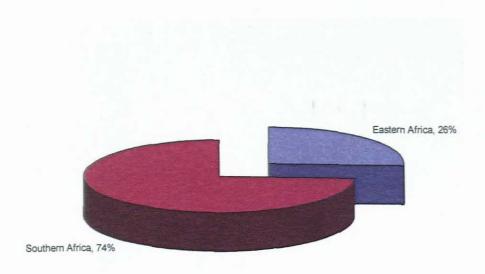
The names of academic librarians were retrieved from various university websites and used as keywords to access data from two online databases. This chapter covers data analysis and presentation.

## 4.2 Regional distribution of publications

Figure 2 below illustrates the distribution of publications according to geographical region. The chart indicates that East African academic librarians produced 69 (26.00%) publications, and Southern African librarians published 194 (74.00%).

[The value for N = 263]

Figure 2: Distribution of publication by geographical region



## 4.3 Country wide distribution of publications

Figure 3 below indicates that South Africa produced 111 (42.21%) publications, Tanzania 31 (11.79%), Botswana 30 (11.41%), Kenya 29 (11.03%), Zambia 14 (5.32%), Namibia and Lesotho 11 (4.18%), Malawi 9 (3.42%), Uganda 8 (3.04%), Swaziland 5 (1.90%), Zimbabwe 3 (1.14%), Ethiopia 1 (0.38%), and Somalia and Sudan 0 (0.00%). [The value for N=263].

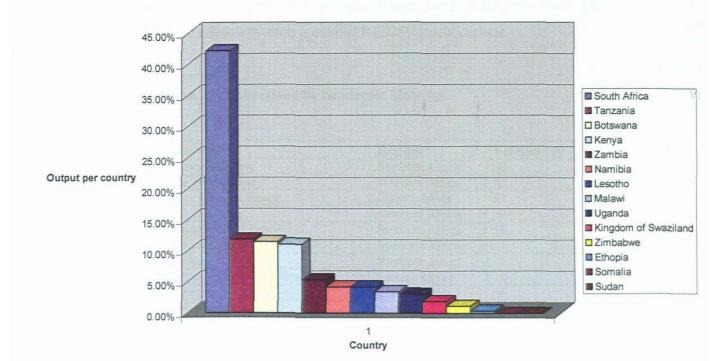


Figure 3: Distribution of publications by country

## 4.4 Distribution of publication by academic libraries

The table below shows the distribution of publications by academic libraries in both regions. Academic libraries from the two regions produced a total of 263 publications. Most of the publications were from the University of Botswana Library, which produced 30 (11.41%). The University of Cape Town Library came second with 25 (9.51%) followed by the University of Dar es salaam with 21 (7.98%) and the University of Pretoria with 19 (7.22%) publications. Other libraries' contributions, in descending order, were from the University of Witwatersrand (18; 6.84%); the University of Namibia and University of Lesotho (11; 4.18%); the Sokoine University of Agriculture Library and Moi University Library (10; 3.80%), the University of Zambia (9; 3.42%) Makerere

University Library (8; 3.04%); and Egerton University Library (7; 2.66%). Libraries from the University of Nairobi, Masinde Muliro University of Science and Technology, University of Malawi, University of the Free State, University of Kwa Zulu Natal, and Tshwane University of Technology each produced 6 (2.28%) publications.

TABLE 4: Distribution of publications by academic libraries

Number = 263

| No. | Academic libraries                           | Region          | Frequency | %      |
|-----|--|-----------------|-----------|--------|
| 1   | University of Botswana Library               | Southern Africa | 30        | 11.41% |
| 2   | University of Cape Town Library              | Southern Africa | 25        | 9.51%  |
| 3   | University of Dar es Salaam Library          | Eastern Africa  | 21        | 7.98%  |
| 4   | University of Pretoria Library               | Southern Africa | 19        | 7.22%  |
| 5   | University of Witwatersrand Library          | Southern Africa | 18        | 6.84%  |
| 6   | University of Namibia Library                | Southern Africa | 11        | 4.18%  |
| 7   | University of Lesotho Library                | Southern Africa | 11        | 4.18%  |
| 8   | Sokoine University of Agriculture Library    | Eastern Africa  | 10        | 3.80%  |
| 9   | Moi University Library                       | Eastern Africa  | 10        | 3.80%  |
| 10  | University of Zambia Library                 | Southern Africa | 9         | 3.42%  |
| 11  | Makerere University Library                  | Eastern Africa  | 8         | 3.04%  |
| 12  | Egerton University Library                   | Eastern Africa  | 7         | 2.66%  |
| 13  | University of Nairobi Library                | Eastern Africa  | 6         | 2.28%  |
| 14  | Masinde Muliro University of Science and     | Eastern Africa  | 6         | 2.28%  |
|     | Technology Library                           |                 |           |        |
| 15  | University of Malawi Library                 | Southern Africa | 6         | 2.28%  |
| 16  | University of Free State Library             | Southern Africa | 6         | 2.28%  |
| 17  | University of Kwa Zulu Natal Library         | Southern Africa | 6         | 2.28%  |
| 18  | Tshwane University of Science and Technology | Southern Africa | 6         | 2.28%  |
| 19  | UNISA  | Southern Africa | 5         | 1.90%  |
| 20  | University of Rhodes Library                 | Southern Africa | 5         | 1.90%  |
| 21  | University of Swaziland Library              | Southern Africa | 5         | 1.90%  |
| 22  | Copperbelt University Library                | Southern Africa | 5         | 1.90%  |
| 23  | University of Fort Hare Library              | Southern Africa | 5         | 1.90%  |
| 24  | Durban University of Technology              | Southern Africa | 4         | 1.52%  |
| 25  | University of Mzuzu Library                  | Southern Africa | 3         | 1.14%  |
| 26  | University of Limpopo Library                | Southern Africa | 3         | 1.14%  |
| 27  | University of Stellenbosch Library           | Southern Africa | 3         | 1.14%  |
| 28  | University of Zululand Library               | Southern Africa | 3         | 1.14%  |
| 29  | University of Zimbabwe Library               | Southern Africa | 3         | 1.14%  |
| 30  | CPUT Library                                 | Southern Africa | 2         | 0.76%  |
| 31  | University of Johannesburg Library           | Southern Africa | 2         | 0.76%  |
| 32  | Alemaya University of Agriculture Library    | Eastern Africa  | 1         | 0.38%  |
| 33  | University of North – West Library           | Southern Africa | 1         | 0.38%  |
| 34  | Vaal University of Technology Library        | Southern Africa | 1         | 0.38%  |
| 35  | Somalia National University Library          | Eastern Africa  | 0         | 0.00%  |
| 36  | Kenyatta University Library                  | Eastern Africa  | 0         | 0.00%  |
| 37  | Mzumbe University Library                    | Eastern Africa  | 0         | 0.00%  |
| 38  | Open University of Tanzania Library          | Eastern Africa  | 0         | 0.00%  |
| 39  | University of Khartoum Library               | Eastern Africa  | 0         | 0.00%  |

| 40 | University of Venda Library                    | Southern Africa | 0   | 0.00% |
|----|--|-----------------|-----|-------|
| 41 | Central University of Technology Free State    | Southern Africa | 0   | 0.00% |
| 42 | Mangosuthu Technikon Library                   | Southern Africa | 0   | 0.00% |
| 43 | Nelson Mandela Metropolitan University Library |                 | 0   | 0.00% |
| 44 | Walter Sisulu University of Science and        | Southern Africa | 0   | 0.00% |
|    | Technology Library                             |                 |     |       |
| 45 | University of Western Cape Library             | Southern Africa | 0   | 0.00% |
| 46 | Midlands State University Library              | Southern Africa | 0   | 0.00% |
| 47 | Zimbabwe Open University Library               | Southern Africa | 0   | 0.00% |
|    | TOTAL  |                 | 263 | 100%  |

## 4.5 Distribution of publication by academic librarians

A total of 271 publications were produced cumulatively by the two regions. Of these, 69 publications were from Eastern Africa, and 194 were produced by academic librarians from Southern Africa. Table 5 illustrates that Muswazi from the University of Witwatersrand and Pienaar from the University of Pretoria both produced 11 (4.00%), followed by Ojedokun from the University of Botswana (9; 3.27%), and Darch from the University of Cape Town (8; 2.91%) Msuya and Nawe from the University of Dar es Salaam, Westhuizen from the University of Pretoria, Moshoeshoe–Chadzingwa from the University of Lesotho, and Chifwepa from the University of Zambia each contributed 7 (2.55%) publications, while .Nyamboga from Egerton University and Lumande from the University of Botswana produced 6 (2.18%) each. [It was not possible to analyse the data in terms of rank or academic qualifications because some library websites provided the job title and not the qualifications of the academic librarian. In all cases though, the job title were provided, however, these job titles were not uniform. See appendix B for more details]

Table 5: Distribution of publication by academic librarians

N = 275

| Eastern Africa Region |                           |                      |    | Southern Africa Region |                           |         |               |    |        |  |  |  |
|-----------------------|---------------------------|----------------------|----|------------------------|---------------------------|---------|---------------|----|--------|--|--|--|
|                       | WORLDCAT & LISTA DATABASE |                      |    |                        | WORLDCAT & LISTA DATABASE |         |               |    |        |  |  |  |
| No.                   | Name                      | Library              | Fq | %                      | No.                       | Name    | Library       | Fq | %      |  |  |  |
| 1                     | Msuya                     | University of Dar es | 7  | 2.55%                  | 1                         | Muswazi | University of | 11 | 4.00°° |  |  |  |
|                       |                           | salaam               |    |                        |                           |         | Witwatersrand |    |        |  |  |  |

| 2  | Nawe              | University of Dar es                                | 7 | 2.55%   | 2  | Pienaar                    | University of Pretoria           | 11 | 4.00% |
|----|-------------------|---|---|---------|----|----------------------------|----------------------------------|----|-------|
| 3  | Dulle             | Sokoine University of<br>Agriculture                | 6 | 2.18%   | 3  | Ojedokun                   | University of<br>Botswana        | 9  | 3.27% |
| 4  | Arap<br>Tirong    | Moi University                                      | 6 | 2.18%   | 4  | Darch                      | University of<br>Cape Town       | 8  | 2.91% |
| 5  | Shibanda          | Masinde Muliro University of Science and Technology | 6 | 2.18%   | 5  | Westhuizen                 | University of<br>Pretoria        | 7  | 2.55% |
| 6  | Nyamboga          | Egerton University                                  | 6 | 2.18%   |    |                            |                                  |    |       |
| 7  | Musoke            | Makerere University                                 | 3 | 1.09%   | 6  | Moshoeshoe -<br>Chadzingwa | University of Lesotho            | 7  | 2.55% |
| 8  | Inoti             | Nairobi University                                  | 2 | 0.73%   | 7  | Chifwepa                   | University of Zambia             | 7  | 2.55% |
| 9  | Were              | Nairobi University                                  | 2 | 0.73%   | 8  | Lumande                    | University of<br>Botswana        | 6  | 2.18% |
| 10 | Liyai             | Nairobi University                                  | 2 | 0.73%   | 9  | Gwenda                     | University of Rhodes             | 5  | 1.82% |
| 11 | Khamadi           | Moi University Library                              | 2 | 0.73%   | 10 | Swanepoel                  | Tshwane University of Technology | 5  | 1.82% |
| 12 | Mulimila          | Sokoine University of<br>Agriculture                | 2 | 0.73%   | 11 | Nfila                      | University of<br>Botswana        | 4  | 1.45% |
| 13 | Manda             | University of Dar es                                | 2 | 0.73%   | 12 | Kgosiemang                 | University of<br>Botswana        | 4  | 1.45% |
| 14 | Nkhoma<br>Wamunza | University of Dar es<br>salaam                      | 2 | 0.73%   | 13 | Ngwira                     | University of<br>Malawi          | 4  | 1.45% |
| 15 | Lwehabura         | Sokoine University of<br>Agriculture                | 2 | 0.73%   | 14 | Namponya                   | University of Free State         | 4  | 1.45% |
| 16 | Omona             | Makerere University                                 | 2 | 0.73%   | 15 | Fidzani                    | University of<br>Botswana        | 3  | 1.09% |
| 17 | Mammo             | Alemaya University of<br>Agriculture                | 1 | 0.36%   | 16 | Uta                        | University of<br>Malawi          | 3  | 1.09% |
| 18 | Matanji           | University of Nairobi                               | 1 | 0.36%   | 17 | Caroline                   | University of<br>Cape Town       | 3  | 1.09% |
| 19 | Musisi -<br>Edebe | Moi University                                      | 1 | 0.36%   | 18 | Dubbeld                    | University of<br>Kwa Zulu Natal  | 3  | 1.09% |
| 20 | Wanyama           | Moi University                                      | 1 | 0.36%   | 19 | Marais                     | UNISA                            | 3  | 1.09% |
| 21 | Kiloi             | Moi University                                      | 1 | 0.36%   | 20 | Myers                      | University of<br>Kwa Zulu Natal  | 3  | 1.09% |
| 22 | Bii               | Moi University                                      | 1 | 0.36° o | 21 | Anbu                       | University of                    | 3  | 1.09% |

|    |  |                                      |     |  |    |              | Swaziland                   |    |   |       |
|----|--|--------------------------------------|-----|--|----|--------------|-----------------------------|----|---|-------|
| 23 | Odini  | Moi University                       | 1   | 0.36%  | 22 | Lungu        | Copperbelt<br>University    |    | 3 | 1.09% |
| 24 | Mwanzilo   | Egerton University                   | 1   | 0.36%  | 23 | Oladokun     | University<br>Swaziland     | of | 2 | 0.73% |
| 25 | Lwoga  | Sokoine University of Agriculture    | 1   | 0.36%  | 24 | Rao          | Copperbelt<br>University    |    | 2 | 0.73% |
| 26 | Kiondo   | University of Dar es<br>salaam       | 1   | 0.36%  | 25 | Jain         | University<br>Botswana      | of | 2 | 0.73% |
| 27 | Kabudi   | University of Dar es<br>salaam       | I   | 0.36%  | 26 | Taole        | University<br>Botswana      | of | 2 | 0.73% |
| 28 | Matovelo   | Sokoine University of<br>Agriculture | 1   | 0.36%  | 27 | Hansmann     | University<br>Botswana      | of | 2 | 0.73% |
| 29 | Busagala   | Sokoine University of<br>Agriculture | 1   | 0.36%  | 28 | Morgenstern  | University<br>Lesotho       | of | 2 | 0.73% |
| 30 | Lutwama  | Makerere University                  | 1   | 0.36%  | 29 | Namhila      | University<br>Namibia       | of | 2 | 0.73% |
| 31 | Kakai  | Makerere University                  | 1   | 0.36%  | 30 | Barrat       | University<br>Namibia       | of | 2 | 0.73% |
| 32 | Kakembo  | Makerere University                  | 1   | 0.36%  | 31 | Thomson      | University<br>Namibia       | of | 2 | 0.73% |
|    |  | TOTAL                                | 754 | 100%   | 32 | Amoah        | University Cape Town        | of | 2 | 0.73% |
|    |  |                                      |     |  | 33 | Arko- Cabbah | University<br>Cape Town     | of | 2 | 0.73% |
|    |  |                                      |     |  | 34 | Tise         | University<br>Stellenbosch  | of | 2 | 0.73% |
|    |  |                                      |     |  | 35 | Nicholson    | University<br>Witwatersrand | of | 2 | 0.73% |
|    | T. T   |                                      |     | A particular and a part | 36 | Mgobozi      | University<br>Zululand      | of | 2 | 0.73% |
|    | to design with the second of t |                                      |     |  | 37 | Chimfwembe   | Copperbelt<br>University    |    | 2 | 0.73% |
|    |  |                                      |     |  | 38 | Makondo      | University<br>Zambia        | of | 2 | 0.73% |
|    |  |                                      |     | and any or other states  | 39 | Chikonzo     | University<br>Zimbabwe      | of | 2 | 0.73% |
|    | -  |                                      |     |  | 40 | Oosthuizen   | University<br>Fort Hare     | of | 1 | 0.36% |

<sup>&</sup>lt;sup>4</sup> Total number of contributions by all academic librarians including those who collaborated

| - | Γ |               | <del></del>        |              | 41 | Raju         | University of     | T i | 0.36%  |
|---|---|---------------|--------------------|--------------|----|--------------|-------------------|-----|--------|
|   |   |               |                    |              | 71 | , ruju       | Kwa Zulu Natal    |     | 0.5070 |
|   |   |               |                    |              | 42 | Buchanan     | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | kwa Zulu Natal    | +   |        |
|   |   |               | <del>       </del> |              | 43 | Khun         | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | Free State        |     |        |
|   |   |               |                    |              | 44 | Darries      | CPUT              | 1   | 0.36%  |
|   |   |               |                    |              | 45 | Rolf         | CPUT              | 1   | 0.36%  |
|   |   |               |                    |              | 46 | Herbert      | Durban            | 1   | 0.36%  |
|   |   |               |                    |              |    |              | University of     |     |        |
|   |   |               |                    |              |    |              | Technology        |     |        |
|   |   |               | <del> </del>       |              | 47 | Muller       | Durban            | 1   | 0.36%  |
|   |   |               |                    |              |    |              | University of     |     |        |
|   |   |               |                    |              |    |              | Technology        |     |        |
|   |   |               |                    |              | 48 | Thomas       | Durban            | 1   | 0.36%  |
|   |   |               |                    |              |    |              | University of     |     |        |
|   |   |               |                    |              |    |              | Technology        |     |        |
|   |   |               |                    |              | 49 | Latsky       | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | Johannesburg      |     |        |
|   |   |               |                    |              | 50 | Sander       | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | Johannesburg      |     |        |
|   |   |               |                    |              | 51 | Shokane      | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | Limpopo           |     |        |
|   |   |               |                    |              | 52 | Chuene       | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | Limpopo           |     |        |
|   |   |               |                    |              | 53 | Bopape       | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    | <i>i</i>     | Limpopo           |     |        |
|   |   |               |                    |              | 54 | Larney       | University of     | 1   | 0.36%  |
|   |   |               |                    |              |    |              | North - West      |     |        |
|   |   |               |                    |              | 55 | Hammes       | University of     | 1   | 0.36%  |
|   |   |               | A. Landau          |              |    |              | Pretoria          |     |        |
|   |   |               |                    |              | 56 | Van Eeden    | UNISA             | l   | 0.36%  |
|   |   |               | 44.                | <del> </del> | 57 | Retief       | UNISA             | 1   | 0.36%  |
|   |   |               |                    |              | 58 | Englebretcht | University of     | 1   | 0.36%  |
|   |   | 4             |                    |              |    |              | Stellenbosch      |     |        |
|   |   |               |                    |              | 59 | Sieberhagen  | Tshwane           | 1   | 0.36%  |
|   |   |               |                    |              |    |              | University of     |     |        |
|   |   |               | V MALOURY IS IN    |              |    |              | Technology        |     |        |
|   |   |               |                    |              | 60 | Mahlangu     | Vaal Uiversity of | 1   | 0.36%  |
|   |   | 1. Automatica |                    |              |    |              | Technology        |     |        |
|   |   |               |                    |              | 61 | Ubogu        | University of     | ı   | 0.36%  |

|   |  |    |            | Witwatersrand           |    |   |       |
|---|--|----|------------|-------------------------|----|---|-------|
| _ |  | 62 | Jiyane     | University Zululand     | of | 1 | 0.36% |
|   |  | 63 | Morupisi   | University<br>Botswana  | of | 1 | 0.36% |
|   |  | 64 | Dintwe     | University<br>Botswana  | of | 1 | 0.36% |
|   |  | 65 | Esilaba    | University<br>Botswana  | of | 1 | 0.36% |
|   |  | 66 | Kakoma     | University<br>Lesotho   | of | 1 | 0.36% |
|   |  | 67 | Chiwaya    | University<br>Malawi    | of | 1 | 0.36% |
|   |  | 68 | Phiri      | University<br>Malawi    | of | 1 | 0.36% |
|   |  | 69 | Van Roi    | University<br>Namibia   | of | l | 0.36% |
|   |  | 70 | Sturges    | University<br>Namibia   | of | ı | 0.36% |
|   |  | 71 | Katjihigwa | University<br>Namibia   | of | 1 | 0.36% |
|   |  | 72 | Mchombu    | University<br>Namibia   | of | 1 | 0.36% |
|   |  | 73 | Visagie    | University<br>Namibia   | of | I | 0.36% |
|   |  | 74 | Ohene      | University<br>Namibia   | of | 1 | 0.36% |
|   |  | 75 | Awuku      | University<br>Namibia   | of | 1 | 0.36% |
|   |  | 76 | Khangala   | University<br>Cape Town | of | 1 | 0.36% |
|   |  | 77 | Omar       | University Cape Town    | of | I | 0.36% |
|   |  | 78 | Sales      | University  Cape Town   | of | 1 | 0.36% |
|   |  | 79 | Rapp       | University  Cape Town   | of | 1 | 0.36% |
|   |  | 80 | Barben     | University Cape Town    | of | 1 | 0.36% |
|   |  | 81 | Lesley     | University Cape Town    | of | I | 0.36% |

|   |   |      |   |               | 82 | Walter  | University  | of | 1   | 0.36% |
|---|---|------|---|---------------|----|---------|-------------|----|-----|-------|
|   |   |      | } |               |    |         | Cape Town   |    |     |       |
|   |   |      |   |               | 83 | Thomson | University  | of | 1   | 0.36% |
|   |   |      |   |               |    |         | Cape Town   |    |     |       |
| _ |   |      |   |               | 84 | Visser  | University  | of | 1   | 0.36% |
|   |   |      |   |               |    |         | Cape Town   |    |     |       |
|   | · | <br> |   |               | 85 | Yumba   | University  | of | 1   | 0.36% |
|   |   |      |   |               |    |         | Swaziland   |    |     |       |
|   |   | <br> |   |               | 86 | Ngcobo  | University  | of | 1   | 0.36% |
|   |   |      |   |               |    |         | Swaziland   |    |     |       |
|   |   | <br> |   | † <del></del> | 87 | Banda   | Copperbelt  |    | 1   | 0.36% |
|   |   |      |   | 1             |    |         | Universsity |    |     |       |
|   |   | <br> |   | <b>†</b>      | 88 | Nkhoma  | Copperbelt  |    | 1   | 0.36% |
|   |   |      |   |               |    |         | Universsity |    |     |       |
|   |   | <br> |   | 1             | 89 | Sibanda | University  | of | 1   | 0.36% |
|   |   |      |   |               |    |         | Zimbabwe    |    |     |       |
|   |   | <br> |   |               |    | TOTAL   |             |    | 200 | 100%  |

## 4.6 Distribution of publications by sources

Table 6 below shows the distribution of publications in journals<sup>5</sup>. 35 journals from Eastern Africa published a total of 69 publications, while 80 journals from Southern Africa published 194 publications. The Southern African Journal of Library and Information Science topped the list by publishing 23 (8.75%) of Southern Africa's publications. Library Review came second with 12 (4.18%) of Eastern Africa's publications. Southern Africa's Information Development came third with 10 (4.18%) publications, followed by the Africa Journal of Library and Information Science (8; 3.04%), and Information Management (7; 2.66%) Eastern Africa's Quarterly Bulletin of International Association of Agricultural Information Specialist and Information Development both published 6 (2.88%) publications. [Please note that not all publications originated fron journals]

Table 6: Distribution of publications by source

N = 263

| Eas | tern Africa region   |              | <del></del> | Sou | thern Africa region  |       |       |
|-----|--|--------------|-------------|-----|--|-------|-------|
| WO  | RLDCAT and LISTA Databa  | ise          |             | wo  | RLDCAT and LISTA Dat   | abase |       |
| No. | Journal  | Fq           | %           | No. | Journal  | Fq    | %     |
| 1   | Library Review   | 12           | 4.18%       | 1   | South African Journal of<br>Library and Information<br>Science                   | 23    | 8.75% |
| 2   | Quarterly Bulletin of International Association of Agricultural Information Specialist | 6            | 2.28%       | 2   | Information Development  | 10    | 3.80% |
| 3   | Information Development  | 6            | 2.28%       | 3   | African Journal of Library and Information Science                               | 8     | 3.04% |
| 4   | IFLA Journal   | 5            | 1.90%       | 4   | Information Management   | 7     | 2.66% |
| 5   | Information Management   | 4            | 1.52%       | 5   | The International Information and Library Review                                 | 7     | 2.66% |
| 6   | Library Management   | 3            | 1.14%       | 6   | Vetenary Science Library<br>(University of Pretoria)                             | 6     | 2.28% |
| 7   | Health Libraries Review  | 3            | 1.14%       | 7   | International Journal Of Legal Information                                       | 6     | 2.28% |
| 8   | New Library World  | 2            | 0.76%       | 8   | IFLA Journal   | 6     | 2.28% |
| 9   | SRELS Journal of Information   | 2            | 0.76%       | 9   | Library Management   | 6     | 2.28% |
|     | Management   | <u> </u><br> |             | 10  | Mousaion   | 6     | 2.28% |
| 10  | Journal of Information Science   | 2            | 0.76%       | 11  | The Electronic Library   | 5     | 1.90% |
| 11  | Journal of Inter Library Loan and<br>Document Delivery                                 | 1            | 0.38%       | 12  | University of Cape Town  | 5     | 1.90% |
| 12  | Campus Wide Information System   | 1            | 0.38%       | 13  | South African Centre for<br>Cooperation in Agricultural<br>Research and Training | 4     | 1.52% |
| 13  | Oxford publishers  | 1            | 0.38%       | 14  | University of Pretoria   | 4     | 1.52% |
| 14  | Eldoret SCANUL (ECS)   | 1            | 0.38%       | 15  | Library Review   | 4     | 1.52% |
| 15  | Malaysian Journal of Library and<br>Information Science                                | 1            | 0.38%       | 16  | Quarterly Bulletine of<br>National Library of South<br>Africa                    | 3     | 1.14% |
| 16  | Electronic Library and<br>Information System   | 1            | 0.38%       | 17  | Libri  | 3     | 1.14% |
| 17  | DESIDOC  | I            | 0.38%       | 18  | Program: Electronic Library and Information Systems                              | 3     | 1.14% |

| 18 | Kenyan Economic Association  | 1 | 0.38% | 19 | Library Hi Tech Journal  | 3 | 1.14% |
|----|--|---|-------|----|--|---|-------|
| 19 | Centre for Law Research<br>International                             | 1 | 0.38% | 20 | Journal of Academic<br>Librarianship                                   | 3 | 1.14% |
| 20 | Library and Archival Security  | 1 | 0.38% | 21 | Cataloguing and Classification Quarterly Journal                       | 3 | 1.14% |
| 21 | African Journal of Library and<br>Information Science                | 1 | 0.38% | 22 | IATUL Annual Conference<br>Proceedings                                 | 3 | 1.14% |
| 22 | Libri: International Journal of<br>Library and Information Science   | 1 | 0.38% | 23 | National Library of Namibia  | 2 | 0.76% |
| 23 | Journal of Information Technology                                    | 1 | 0.38% | 24 | Information Studies Journal  | 2 | 0.76% |
| 24 | Berlin Koster  | 1 | 0.38% | 25 | University of Natal  | 2 | 0.76% |
| 25 | University of Dar es Salaam  | 1 | 0.38% | 26 | For Full Text  | 2 | 0.76% |
| 26 | University of North Carolina at Chapel Hill                          | 1 | 0.38% | 27 | UNISA  | 2 | 0.76% |
| 27 | Tanzania Library Association   | 1 | 0.38% | 28 | National University of<br>Lesotho                                      | 2 | 0.76% |
| 28 | Dar es Salaam SCESCAL Ten  | 1 | 0.38% | 29 | Boston Spa, British Library  | 2 | 0.76% |
| 29 | Information Technology for   | 1 | 0.38% | 30 | Cape Librarian   | 2 | 0.76% |
|    | Development Journal  |   |       | 31 | National AIDS Coordinating Agency, University of Botswana              |   | 0.38% |
| 30 | Springer Verlag  | 1 | 0.38% | 32 | Campus Wide Information Systems  | 1 | 0.38% |
| 31 | South African Journal of<br>Librarianship and Information<br>Science | 1 | 0.38% | 33 | Education for Information  | 1 | 0.38% |
| 32 | Journal of Librarianship and<br>Information Science                  | 1 | 0.38% | 34 | International Information<br>Review                                    | 1 | 0.38% |
| 33 | World Libraries  | 1 | 0.38% | 35 | Institute of Southern African Studies (National University of Lesotho) | 1 | 0.38% |
| 34 | The Department of Women,<br>Kampala                                  | 1 | 0.38% | 36 | Lesotho Library Association  | 1 | 0.38% |
| 35 | Uganda Library Association   | 1 | 0.38% | 37 | Maseru   | 1 | 0.38% |

| TOTAL | 69    | 100%  | 38 | Library and Information        | 1 | 0.38% |
|-------|-------|---|----|--------------------------------|---|-------|
|       |       |   |    | Update                         |   |       |
|       |       |   | 39 | Legal Information              | 1 | 0.38% |
|       |       |   |    | Management Journal             |   |       |
|       |       |   | 40 | Collection Development         | 1 | 0.38% |
|       |       |   | 41 | College Research Libraries     | 1 | 0.38% |
|       |       | <del></del> ,                                   | 42 | Chandos                        | 1 | 0.38% |
|       |       |   | 43 | South African Institute of     | 1 | 0.38% |
|       |       |   |    | International Affairs          |   |       |
|       |       | <del></del>                                     | 44 | Malherbe Library               | I | 0.38% |
|       |       |   | 45 | National Museum Council        | 1 | 0.38% |
|       |       | <u> </u>  | 46 | University of Johannesburg     | 1 | 0.38% |
|       |       |   | 47 | Eric                           | 1 | 0.38% |
|       |       |   | 48 | Information Outlook            | 1 | 0.38% |
|       |       |   | 49 | INSPEL                         | 1 | 0.38% |
|       |       |   | 50 | African Research               | 1 | 0.38% |
|       |       |   |    | Documentation                  |   |       |
|       |       |   | 51 | Sub - Saharan African          | 1 | 0.38% |
|       |       |   |    | Program                        |   |       |
|       |       | <u>. ,                                     </u> | 52 | MALICO                         | Ī | 0.38% |
|       |       |   | 53 | FAO Fisheries                  | I | 0.38% |
|       |       |   | 54 | Malawi Library Association     | 1 | 0.38% |
|       |       |   | 55 | International Journal of       | 1 | 0.38% |
|       |       |   |    | Information and Library        |   |       |
|       |       |   |    | Research                       |   |       |
|       |       |   | 56 | APLESA                         | 1 | 0.38% |
|       |       |   | 57 | Zomba Malawi                   | 1 | 0.38% |
|       |       |   | 58 | ASLIB Proceedings              | 1 | 0.38% |
|       |       |   | 59 | Journal of Documentation       | 1 | 0.38% |
|       |       |   | 60 | INSPEL                         | 1 | 0.38% |
|       |       |   | 61 | National Archives of Namibia   | 1 | 0.38% |
|       |       |   | 62 | Social Science Division, Multi | 1 | 0.38% |
|       | Van v |   |    | Disciplinary Research Centre   |   |       |
|       |       |   | 63 | Clio Press                     | 1 | 0.38% |
|       |       |   | 64 | The Reference Librarian        | l | 0.38% |
|       |       |   | 65 | Library Consortia              | 1 | 0.38% |

|    | Management   |   |       |
|----|--|---|-------|
| 66 | University of Stellenbosch                                     | 1                                       | 0.38% |
| 67 | Library and Information Workers Association                    | 1                                       | 0.38% |
| 68 | Science and Technology<br>Libraries                            | 1                                       | 0.38% |
| 69 | Interlending and Document Supply                               | 1                                       | 0.38% |
| 70 | Rand Afrikaans University                                      | 1                                       | 0.38% |
| 71 | University of Zululand   | 1                                       | 0.38% |
| 72 | Electronic Journal of<br>Academic and Special<br>Librarianship | 1                                       | 0.38% |
| 73 | Journal of Society of<br>Archivist                             | *************************************** | 0.38% |
| 74 | Digital Libraries  | 1                                       | 0.38% |
| 75 | Kepro Bulletin   | I                                       | 0.38% |
| 76 | The Project  | l                                       | 0.38% |
| 77 | Malayasian Journal of Library and Information Science          | 1                                       | 0.38% |
| 78 | University of Botswana   | 1                                       | 0.38% |
| 79 | African Journal of<br>Librarianship                            | 1                                       | 0.38% |
| 80 | Oxford   | 1                                       | 0.38% |
|    | TOTAL  | 194                                     | 100%  |

[Source in this case means the journal and publisher that publication appears]

# 4.7 Trends of publication output by region from 1990 to 2006

Figure 4 illustrates the publication trends of the two regions. In 1990 Eastern Africa started off with 2 (0.76%) publications, which rose to 3 (1.14%) in 1991 and 5 (1.90%) in 1993. This fell back to 2 (0.76%) in 1994. In 1995, the number of publications increased to 3 (1.14%) then dropped abruptly the following year to 0 (0.00%). In 1997 the number rose to 4 (1.52%), where it remained constant until 1999, before dropping again to 2

(0.76%). In 2000, the number of publications rose to 6 (2.28%), a trend that was maintained in 2001. 2002 saw the number rise to 9 (3.42), then drop to to 2 (0.76%) in 2003, rise the next year to 8 (3.04) then drop in 2005 to 4 (1.52%). The number rose again in 2006 to 7 (2.66%).

Southern Africa started with 8 (3.04%) publications in 1990, but this number dropped to 4 (1.52%) in 1991 and again the following year to 0 (0.00%). In 1993 the number of publications went up to 6 (2.28%), dropped the next year to 3 (1.14%) rose in 1995 to 12 (4.56%), dropped in 1996 to 7 (2.66%). The number rose again the following year to 8 (3.04%) and even more in 1998 to 13 (4.95%) where it remained in 1999. In 2000 production increased to 16 (3.80%) before dropping to 14 (5.32%) in 2001, where it remained until 2003. In 2003, the number of publications reduced to 13 (4.95%) rose even more to 25 (9.51%) in 2004, dropped the next year to 21 (7.98%), and went up in 2006 to 23 (8.75%).

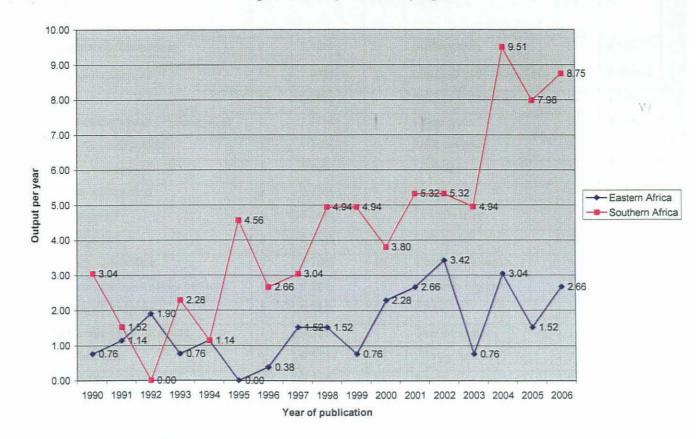


Figure 4: Trend publication by region

## 4.8 Distribution of publication by subjects

Table 7 below shows the subjects that academic librarians researched in their publications. In Eastern Africa most academic librarians (9; 3.42%) focused on Information Technology, followed by Academic Libraries and Congresses (5; 1.90%), and Information Resource Management and Information Services (3; 1.14%). Southern African academic librarians published mostly on Bibliographies and Libraries and Automation which totaled (13; 4.94%), closely followed by Academic Libraries and Congresses (12; 4.56%), Book Reviews (9; 3.42%) and on a lesser scale, Libraries (4; 1.52%).

Table: 7 Distribution of publications by subject

N = 263

| Eastern Africa region | Southern Africa region |
|-----------------------|------------------------|
|-----------------------|------------------------|

| WORLDCAT and LISTA Database |                                     |                 |       | WORLDCAT and LISTA Database |                                    |    |        |  |
|-----------------------------|-------------------------------------|-----------------|-------|-----------------------------|------------------------------------|----|--------|--|
| No.                         | Subject                             | Fq <sup>6</sup> | %     | No.                         | Subject                            | Fq | %      |  |
| 1                           | Information Technology              | 9               | 3.42% | 1                           | Bibliography                       | 13 | 4.94%  |  |
| 2                           | Academic libraries                  | 5               | 1.90% | 2                           | Libraries and automation           | 13 | 4.94%% |  |
| 3                           | Congresses                          | 5               | 1.90% | 3                           | Academic libraries                 | 12 | 4.56%  |  |
| 4                           | Information resource management     | 3               | 1.14% | 4                           | Congresses                         | 12 | 4.56%  |  |
| 5                           | Information Services                | 3               | 1.14% | 5                           | Book reviews                       | 9  | 3.42%  |  |
| 6                           | Human resource library              | 2               | 0.76% | 6                           | Libraries                          | 4  | 1.52%  |  |
| 7                           | Health information                  | 2               | 0.76% | 7                           | Internet                           | 3  | 1.14%  |  |
| 8                           | Cataloguing                         | 2               | 0.76% | 8                           | Law libraries                      | 3  | 1.14%  |  |
| 9                           | Bibliography                        | 2               | 0.76% | 9                           | Web portal                         | 3  | 1.14%  |  |
| 10                          | Library automation                  | 2               | 0.76% | 10                          | Electronic journals                | 3  | 1.14%  |  |
| 11                          | Agricultural information network    | 1               | 0.38% | 11                          | Libraries mergers                  | 3  | 1.14%  |  |
| 12                          | Document Delivery                   | 1               | 0.38% | 12                          | OPAC                               | 2  | 0.76%  |  |
| 13                          | Electronic data processing          | 1               | 0.38% | 13                          | User education                     | 2  | 0.76%  |  |
| 14                          | HIV infection                       | 1               | 0.38% | 14                          | Library services                   | 2  | 0.76%  |  |
| 15                          | Fish information                    | 1               | 0.38% | 15                          | Information literacy               | 2  | 0.76%  |  |
| 16                          | Library building                    | 1               | 0.38% | 16                          | Library consortia                  | 2  | 0.76%  |  |
| 17                          | Marketing                           | 1               | 0.38% | 17                          | Library employee                   | 2  | 0.76%  |  |
| 18                          | Library finance                     | 1               | 0.38% | 18                          | Curriculum                         | 2  | 0.76%  |  |
| 19                          | Internet                            | 1               | 0.38% | 19                          | African published journal          | 2  | 0.76%  |  |
| 20                          | Agricultural literature             | 1               | 0.38% | 20                          | Knowledge management               | 2  | 0.76%  |  |
| 21                          | Internet reference service          | 1               | 0.38% | 21                          | Information accessibility          | 2  | 0.76%  |  |
| 22                          | Digital libraries                   | 1               | 0.38% | 22                          | Namibia-Imprint<br>periodical      | 2  | 0.76%  |  |
| 23                          | Collection development              | 1               | 0.38% | 23                          | Public libraries - South<br>Africa | 2  | 0.76%  |  |
| 24                          | Telecommunication law & legislation | 1               | 0.38% | 24                          | Strategic planning                 | 2  | 0.76%  |  |
| 25                          | Electronic resource                 | 1               | 0.38% | 25                          | Cataloguing                        | 2  | 0.76%  |  |
| 26                          | Information dissemination           | 1               | 0.38% | 26                          | Library orientation                | 2  | 0.76%  |  |
| 27                          | Information profession              | l               | 0.38% | 27                          | Digital libraries                  | 2  | 0.76%  |  |
|                             |                                     | <u> </u>        |       | 28                          | HIV/AIDs                           | 2  | 0.76%  |  |

<sup>&</sup>lt;sup>6</sup> Fq stands for frequency

| 28 | Library science                   | 1  | 0.38% | 29 | Libraries for teaching           | 1 | 0.38% |
|----|-----------------------------------|----|-------|----|----------------------------------|---|-------|
| 29 | Information specialist            | 1  | 0.38% | 30 | CD - MARC                        | l | 0.38% |
| 30 | Agricultural libraries            | 1  | 0.38% | 31 | Information science and teaching | 1 | 0.38% |
| 31 | Comparative librarianship         | 1  | 0.38% | 32 | Serial control system automation | 1 | 0.38% |
| 32 | Library research                  | 1  | 0.38% | 33 | Information retrieval            | 1 | 0.38% |
| 33 | Library orientation               | 1  | 0.38% | 34 | Library science                  | 1 | 0.38% |
| 34 | Collection development            | 11 | 0.38% | 35 | Technologies and innovation      | 1 | 0.38% |
| 35 | Library management                | 1  | 0.38% | 36 | Electronic works                 | 1 | 0.38% |
| 36 | Automated classification          | 1  | 0.38% | 37 | Information access               | 1 | 0.38% |
| 37 | Libraries and education graduates | 1  | 0.38% | 38 | Libraries – special collection   | 1 | 0.38% |
| 38 | ICTS                              | 1  | 0.38% | 39 | IT-Cataloguing                   | 1 | 0.38% |
| 39 | Information seeking behavior      | 1  | 0.38% | 40 | Human rights                     | 1 | 0.38% |
| 10 | Electronic Information service    | 1  | 0.38% | 41 | Information science              | 1 | 0.38% |
| 41 | Agricultural information          | 1  | 0.38% | 42 | obituary                         | 1 | 0.38% |
| 42 | Rural development                 | 1  | 0.38% | 43 | CD-ROM-Africa                    | 1 | 0.38% |
| 43 | Reserve collection                | 1  | 0.38% | 44 | Fish information                 | 1 | 0.38% |
| 44 | Agricultural information services | 1  | 0.38% | 45 | Community library                | 1 | 0.38% |
|    | TOTAL                             | 69 | 100%  | 46 | Library directory                | 1 | 0.38% |
|    |                                   |    |       | 47 | Intranet and Internet            | 1 | 0.38% |
|    |                                   |    |       | 47 | Indexing and abstracting         | 1 | 0.38% |
|    |                                   |    |       | 48 | Information for rural            | l | 0.38% |
|    |                                   |    |       | 49 | Library cooperation              | 1 | 0.38% |
|    |                                   |    |       | 50 | Theses register                  | 1 | 0.38% |
|    |                                   |    |       | 51 | Archives                         | 1 | 0.38% |
| -  | <del></del>                       | )  |       | 52 | Visual learning                  | 1 | 0.38% |
|    |                                   |    |       | 53 | Library administration           | 1 | 0.38% |
|    |                                   | _  |       | 54 | Library collection               | 1 | 0.38% |
|    |                                   |    |       | 55 | Legal information                | 1 | 0.38% |
|    |                                   | -  |       | 56 | Acquisition                      | 1 | 0.38% |
|    |                                   |    |       | 57 | Library partnership              | 1 | 0.38% |
|    |                                   |    |       | 58 | Kipling Rudyard                  | Ī | 0.38% |
| _  |                                   | +  |       | 59 | E-Mail                           | 1 | 0.38% |

| 60 | Information storage and retrieval systems- | 1 | 0.38%  |
|----|--|---|--------|
|    | agriculture                                |   | 0.200/ |
| 61 | Agriculture                                | 1 | 0.38%  |
| 62 | Descriptive cataloguing                    | 1 | 0.38%  |
| 63 | CD-ROM                                     | 1 | 0.38%  |
| 64 | Government publications                    | 1 | 0.38%  |
| 65 | Business information                       | 1 | 0.38%  |
| 66 | Telematic libraries                        | 1 | 0.38%  |
| 67 | Information service                        | 1 | 0.38%  |
| 68 | Strategic management                       | 1 | 0.38%  |
| 69 | University libraries                       | 1 | 0.38%  |
| 70 | Animal information                         | 1 | 0.38%  |
| 71 | Video copyright                            | 1 | 0.38%  |
| 72 | NACO                                       | 1 | 0.38%  |
| 73 | Electronic resources                       | 1 | 0.38%  |
| 74 | LIASA                                      | 1 | 0.38%  |
| 75 | Grey literature                            | 1 | 0.38%  |
| 76 | AIDs                                       | 1 | 0.38%  |
| 77 | Union catalogue                            | 1 | 0.38%  |
| 78 | Censorship                                 | ī | 0.38%  |
| 79 |  | 1 | 0.38%  |
|    | Bibliography                               |   |        |
| 80 | Library strategic planning                 | 1 | 0.38%  |
| 81 | ETD  | 1 | 0.38%  |
| 82 | Copyright                                  | 1 | 0.38%  |
| 83 | Inter library loan                         | 1 | 0.38%  |
| 84 | Evidenced based                            | 1 | 0.38%  |
|    | medicine                                   |   |        |
| 85 | Libraries award                            | 1 | 0.38%  |
| 86 | Association Institute                      | 1 | 0.38%  |
| 87 | Freedom of information                     | 1 | 0.38%  |
| 88 | Documentation                              | 1 | 0.38%  |
| 89 | Translations(Rhetoric)                     | 1 | 0.38%  |
| 90 | Legal literature                           | 1 | 0.38%  |
| 91 | Intellectual property                      | 1 | 0.38%  |
| 91 | interiectual propeπy                       | 1 | 0.5870 |

| 107     | TOTAL                     | 174 | 100/6 |
|---------|---------------------------|-----|-------|
| 109     | TOTAL                     | 194 | 100%  |
|         | retrieval                 |     |       |
| 108     | Information storage and   | 1   | 0.38% |
| 107     | Information structure     | 1   | 0.38% |
| 106     | Academic librarian        | 1   | 0.38% |
| 105     | Information technology    | 1   | 0.38% |
| <br>104 | Data structure            | 1   | 0.38% |
| 103     | Libraries-circulation     | 1   | 0.38% |
|         | rural women               |     |       |
| 102     | Information science -     | 1   | 0.38% |
| 101     | Education                 | 1   | 0.38% |
| 100     | Internet education        | 1   | 0.38% |
| 99      | Information specialist    | 1   | 0.38% |
| 98      | Library science societies | 1   | 0.38% |
| 97      | Libraries and education   | 1   | 0.38% |
| 96      | National libraries        | 1   | 0.38% |
| 95      | Communication             | 1   | 0.38% |
| 94      | GAELIC region             | 1   | 0.38% |
| 93      | Education technology      | 1   | 0.38% |
| 92      | Records management        | 1   | 0.38% |

## 4.9 Distribution of publication by type of documents

There were 69 publications in Eastern Africa. Of these, 58 (22.05%) were articles, 5 (1.90%) books, 5 (4.56%) conference proceedings, 1 (0.38%) microform and 0 (0.00%) theses or book reviews. Southern Africa had 194 publications, 136 (51.71%) of which were articles, 26 (9.89%) books, 11 (4.18%) theses, 9 (3.42%) book reviews, 12 (4.56%) conference proceedings and 0 (0.00%) microforms (see figure 5).

[The value of is N = 263]

percentage publication output per year

20

Eastern Africa

Southern Africa

Figure 5:Distribution of publications by type of documents

# 4.10 Nature of collaboration among academic librarians

Figure 6 below illustrates the nature of collaboration of academic librarians in the two regions. There were a total of 263 publications. In Eastern Africa, 29 (11.03%) of the publications were co–authored and 40 (15.21%) were published individually, while in Southern Africa, 69 (26.24%) were co–authored and 125 (47.53%) were published individually.

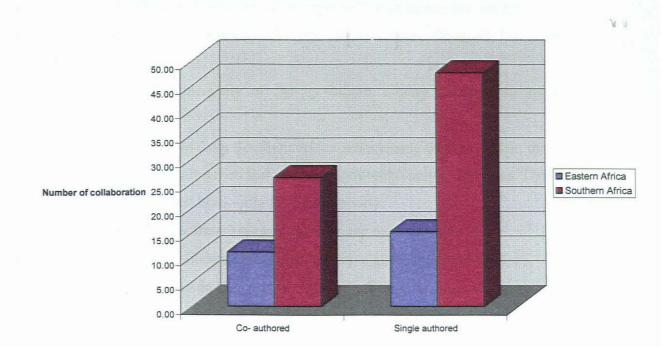


Figure 6: Nature of collaboration among academic librarians

## 4.11 Summary

This chapter was about data analysis and presentation. Data was presented in pie charts, line and bar graphs, and tables. The salient issues emerging from this chapter were:

- Of the two regions Southern Africa emerged the most productive and surpassed Eastern Africa by 48.00%.
- Out of the fourteen countries, South Africa emerged the most productive.
- There was a slight difference (30.42%) in the production output of Tanzania,
   Botswana, Kenya and Zambia.

- There was a gap of 36.89% 0.00% between South Africa and countries such as Zambia, Namibia, Lesotho, Malawi, Uganda, Swaziland, Zimbabwe, Ethiopia, Somalia and Sudan in terms of publications.
- Tanzania was the most productive country in Eastern Africa
- University of Botswana Library emerged the overall most productive library.
- In South Africa, the University of Cape Town Library emerged the most productive.
- In East Africa, the University of Dar es Salaam Library emerged the most productive.
- Eight academic libraries from Southern Africa were among the top twelve; three
  of them were from South Africa and were previous white-only universities. Those
  that had been designated black-only performed poorly.
- Two university libraries from Tanzania were among the top twelve.
- Only eleven university libraries produced between eight to thirty publications.
- Most academic libraries in the top twelve were offering courses in Library and Information Science, e.g. the University of Cape Town, University of Botswana University of Dar es salaam, University of Namibia, University of Pretoria and Moi University Libraries.
- Most academic librarians were once-time publishers.
- Most of Southern African academic librarians published in the Southern Africa
   Journal of Library and Information Science journal, while academic librarians in
   Eastern Africa published mostly in the Library Review journal.
- Both regions experienced a rise and fall in publication output from 1990 to 2006.
   However, in 1992 Southern Africa produced 0 (0.00%) publications which was in contrast to an incremental increase of 25 (9.51%) in 2004. Eastern Africa had 0 (0.00%) publications in 1995, against an increase of 9 (3.42%) in 2002.
- Most of the publications in Southern Africa focused on Bibliography and Library Automation, while in Eastern Africa the main subject area was Information Technology.

- Most of the publications in Southern Africa were articles, followed by books, conference proceedings and theses. In Eastern Africa, the publications were mainly articles and conference proceedings.
- Academic librarians in both regions preferred publishing individually.
- The most prolific librarians were both from South Africa.

The following omissions were noted in this chapter:

- Whereas the researcher would have liked to show the number of publication produced by academic librarians by rank or academic qualifications, this was not possible, because of the reason explained in the report [see 4.6].
- There were also academic librarians who published articles, books etc and this had to be discussed [see 4.9].

From these findings, there grew a need to establish why some academic librarians and libraries were performing better than others. The outcome of the study could then be used to improve the production output of countries that were performing poorly.

The next chapter discusses the findings of this study.

### **CHAPTER FIVE**

### DISCUSSION OF THE FINDINGS

### 5.1 Introduction

According to Neuman (2006:498), the discussion of the findings is not "a selective or partisan interpretation" but "a candid discussion of what is in the results section", so that a reader can "examine the data and arrive at different interpretations". Neuman proposes that in the discussion of results the researchers should give a clear interpretation of his/her findings. He further adds that, the easiest way for beginners to organize the discussion is according to hypothesis. However, this study did not use hypothesis and for that reason, in line with what the author has proposed, that this chapter will discuss the findings in relation to the study's research questions and objectives formulated as indicated in chapter one.

This chapter therefore, discussed what the findings reveal about what academic librarians publish; why academic librarians should publish; the publication trend among academic librarians: the geographical distribution of publications among academic librarians; the nature of collaboration among academic librarians; and the publication output of academic librarians.

### 5.2 Why academic librarians should publish

Peters, (1999:27) and Veaner (1990: 63) observe that academic librarians play a vital role in public university libraries by providing varied library services and assisting clients with their research through the provision of necessary information. The roles of the academic librarians have continued to change over the years, mainly from being a caretakesr of books to that of being creators of intellectual knowledge. From Poynter,

Marjorie, Curran, Thyer, and Stover (refer o page 26) believes that academic librarians could reap the following benefits if they engaged in research:

- Research would give an academic librarian recognition both nationally and internationally;
- It would offer professional recognition to the academic librarian from colleagues and peers. For example, they may be called upon to speak at functions;
- The academic librarian would have reason to be proud, in that s/he has been published and that someone somewhere has cited his or her work;
- The academic librarian would add to the body of knowledge that goes into creating our professional literature;
- Publication leads to invitations to conferences and symposiums;
- Research publications could be used to rate academic librarians when the need for promotion arises;
- It could lead to further careers, for example in teaching or consultancy, for the academic librarian;
- Academic librarians would gain financially from publishing;
- Publishing could result in the promotion and recognition of one's department/institution based on publication output.
- It would provide continued tenure for the academic librarian;
- The academic librarian would become competitive in the publishing world;
- The academic librarian can keep score of his/her professional achievement through publishing;
- It would be of significant importance in the academic librarian's resume;
- The academic librarian would have left his/her ideas behind for others to consider; and
- He/she would be able to impart research skills onto others who wish to publish.

### 5.3 Most productive region and country

In the findings, Figures 2 and 3 show the most productive region and country in relation to academic librarians' productivity. The most prolific region was Southern Africa with 194 (76%) publications. Eastern Africa only recorded 69 (26%) publications. South Africa emerged as the most prolific country in this study with 111 (42.21%) publications. Tanzania came second (31; 11.79%), followed by Botswana (30; 11.41%), Kenya (29; 11.03%), Zambia (14; 5.32%), Namibia and Lesotho (11; 4.18%), Malawi (9; 3.42%), Uganda (8; 3.04%), Swaziland (5; 1.90%), Zimbabwe (3; 1.14%), Ethiopia (1; 0.38%), and Somalia and Sudan (0; 0.00%).

Arguably, Southern Africa's accomplished performance could be attributed to South Africa, which boosted the region. South Africa was probably more prolific because:

- It has a strong and sound research policy.
- Funds are always made available to academic librarians who wish to carry out research.
- The country is politically stable
- Many universities offer the course. Therefore the country could produce more research—oriented academic librarians than the rest of the countries in the study.

Performance in countries such as Zimbabwe, Sudan and Somalia was most likely affected by political instability. Proof of this lies in the fact that South Africa, Botswana and Tanzania have, in the study's time frame, been the most stable countries, and correspondingly enjoyed good performances. South Africa and Botswana could additionally attribute their good performances to strong economies, which are lacking in most of the countries in the two regions.

Another reason probably affecting the publication performance of countries such as Ethiopia, Kenya, Lesotho, Namibia, Malawi, Swaziland, Zimbabwe, Uganda, Somalia and Sudan is the issue of Diaspora, whereby many intellectuals are migrating to other

countries of the world because of the presence of push factors such as unemployment, poor remuneration, lack of academic freedom, and poor government policies. This affects many professions, including Library and Information Science. For instance, the Africa News update website (2005; par.1) highlighted that between 500,000 and 1.8 million Kenyans work overseas, making it the most brain-drained country in the region. This could mean that many academic librarians living abroad probably publish outside. In addition, there is also the possibility that the course (Library and information Science) is not given priority because it is not considered to be a science/ technology course. Funds are therefore channeled to other areas considered more of a priority such as medicine, agriculture, and the pure and applied sciences. Furthermore, many academic librarians probably do not get incentives and motivation, such as promotion, recognition, funding and sabbatical leave to carry out research. The fact that librarians bearing a masters or a PhD degree could be moving to other attractive professions such as teaching cannot be ruled out, this leaves the library fraternity without research-oriented professionals. On top of this, there could be the lack of a sound research policy, which results in the neglect of implementation of the findings suggested by professionals in this field. Important to note also is that for a long time universities in Africa were not offering Library and Information Science, these may have hampered the production of research-oriented librarians.

The fact that the databases may not have indexed all the publications cannot be ruled out, particularly because in the course of data collection from the LISTA and WORLDCAT databases, there was a great difference in the total number of publications retrieved.

### 5.4 Most productive academic libraries

Sengupta (1992:82) states that bibliometrics can be used to predict the productivity of publishers, individuals, authors, organizations, countries or entire disciplines. This study therefore sought to establish the most productive academic libraries in the two regions. The University of Botswana Library in Southern Africa came out on top with 30

(11.41%) publications. The next nine prolific academic libraries, in descending order, were from the University of Cape Town in Southern Africa with (25; 9.51%), the University of Dar es salaam in Eastern Africa (21; 7.98%); the University of Pretoria in Southern Africa (19; 7.22%); the University of Witwatersrand (18; 6.84%), the University of Namibia and the University of Lesotho in Southern Africa (11; 4.18% each); the Sokoine University of Agriculture and the Moi University in Eastern Africa (10; 3.80 %) the University of Zambia in Southern Africa (9; 3.42% publications each) [see table 4].

A closer look at the top universities reveals that they have existed for a long time, and are probably more stable than other universities in terms of government funding. Some of these institutions were also the first academic institutions of higher learning in their countries, e.g. the University of Botswana, University of Dar es salaam, and the University of Namibia. Another factor worth noting is that the three of the academic libraries from South Africa that featured in the top ten were from universities that had been designated as 'white-only' during the apartheid era. These are the University of Cape Town, University of Pretoria and the University of Witwatersrand. However, academic libraries from universities that were designated as 'black-only' performed poorly, such as the University of Zululand (3; 1.14%), the University of the North-West (1; 0.38), the University of the Western Cape (0; 0.00%), and the University of Venda (0; 0.00%). In all likelihood, former 'white-only' academic libraries performed well because of access to better resources and funding, which they continued to enjoy once apartheid was banished. In contrast, survival was probably the main focus in black-designated libraries which suffered from poor resources in the years proceeding and immediately following democratic independence.

Eastern Africa's Sokoine University of Agriculture Library probably made the top ten because it is in an agricultural-based university, and therefore, enjoys the funding that goes with the importance placed on agriculture in the region. In a similar position is the Egerton University Library, which took twelfth position with 7 (2.66%) publications.

It is interesting to note that the top ten libraries i.e. libraries hailing from, the University of Botswana, the University of Cape Town, the University of Dar es salaam, The University of Pretoria, the University of Namibia, the University of Zambia, Moi University, Makerere University, Egerton University and Nairobi University; were in institutions that offer the Library and Information Science course. It is highly likely that the academic librarians from these universities were getting support in terms of skills and funding from the Library and Information Science department.

## 5.5 Most productive academic librarian

Ikpaahindi (1985: 163) observed that bibliometrics could be used to identify the most productive author/s. Data from Table 5 indicates that a total of 32 academic librarians contributed towards 69 publications in Eastern Africa. In Southern Africa 90 academic librarians contributed to 194 publications. Two academic librarians from Southern Africa emerged as the most prolific in the two regions, and these were Muswazi from the University of Witwatersrand Library, and Pienaar from the University of Pretoria Library, each with 11 (4.00%) publications. In Eastern Africa, academic librarians with a record of more than five publications were Msuya and Nawe, both from the University of Dar es salaam, with 7 (2.55%) publications each; and Dulle from the Sokoine University of Agriculture, Arap Tirong from Moi University and Nyamboga from Egerton University with 6 (2.18%) publications each.

Academic librarians from Southern Africa with a record of more than five publications, other than Muswazi and Pienaar, were Ojedokun from the University of Botswana Library (9; 3.27%); Darch from the University of Cape Town Library (8; 2.91%); Westhuizen from the University of Pretoria, Moshoeshoe-Chadzingwa from the University of Lesotho and Chifwepa from the University of Zambia (7; 2.55% each); Lumande from the University of Botswana (6; 2.18%); and Gwenda from the University of Rhodes and Swanepoel from the Tshwane University of Technology (5; 1.82% each) Academic librarians from Southern Africa therefore occupied the first four overall positions. The top 7 most prolific academic librarians came from institutions that have

existed for a long time. However, it is possible that some academic libraries performed poorly because their most productive academic librarians moved to other libraries in search of greener pastures. For example e.g. Muswazi moved from the University of Swaziland to the University of Witwatersrand, and Shibanda moved from Moi University to the Masinde Muliro University of Science and Technology.

Only 23 Library Directors from the 47 academic libraries published and conducted research. These Directors were Nawe, Arap Tirong, Mwanzilo, Dulle, Musoke, Shibanda, Mammo, Rapp, Gwenda, Tise, Ubogu, Sander, Swanepoel, Namhila, Phiri, Uta, Larney, Chuene, Lungu, Buchanan, Moshoeshoe–Chadzingwa, Chikonzo and Namponya (see appendix for data on their affiliations).

## 5.6 Most popular journal

The popularity of a journal in the two regions was measured by the number of times any academic librarian's publication had appeared in the journal. In Eastern Africa, academic librarians tended to publish in 35 journals. Most (12; 4.18%) of the librarians in this region preferred publishing in *Library Review*; followed by the *Quarterly Bulletin of International Association of Agricultural Information Specialist*, and the *Information and Development Journal*, both in second place with 6 (2.28%) publications. The *IFLA* Journal had 5 (1.90%) publications.

Southern Africa academic librarians published in 80 journals. Most (23; 8.75%) of the publications were in the Southern Africa Journal of Library and Information Science (8; 3.04%); and Information Management and International Information and Library Review Journal, both with 7 (2.66%) publications. Seven journals published a total of 6 (2.28%) publications each, namely Veterinary Science Library, International Journal of Legal Information, IFLA Journal, Library Management, Mousaion, University of Cape Town and The Electronic Library Journa. These results illustrate that academic librarians in Southern Africa preferred publishing in foreign journals. East African academic

librarians probably did so because they lack(ed) regional journals that focus on this discipline.

### 5.7 Research trend in Eastern and Southern Africa

According to Sengupta (1992: 82), bibliometrics can be used to analyze or identify the research trends and knowledge of scientific disciplines. The publication trends of the two regions under study show that from 1990 to 2006, the number of publications was inconsistently increasing and decreasing. Southern Africa's publication output was only steady once from 1998 to 1999, where the number of publications remained at 13 (4.94%). Eastern Africa had a steady publication trend from 1997 to 1998, where the publication output was 4 (1.52%). In 1992 and 1995, the publication output was 0.00% in Southern Africa and in Eastern Africa respectively. This unsteady trend could be attributed to a lack of funds during the specified periods.

Elections and referendums also seem to affect the output of publications in the two regions, perhaps because when an election or a referendum is held all funds are geared towards these events. However, this was not the case in some years where there was a drop in output. For instance, it is possible that East Africa's output dropped in 1993, because Kenya had an election in the previous year; in 1995 the output dropped once more, and this may have been due to Tanzania's election; and in 2005, Kenya and Uganda had a referendum and Tanzania had an election. Similarly in South Africa, publication output dropped in 1992, possibly because South Africa had a referendum during that year; in 1994, Botswana, South Africa, Malawi and Namibia held their elections; and in 1996 Zambia and Zimbabwe had their elections.

However, despite elctions in South Africa, Malawi and Namibia in 2004 the output rose but, but then dropped the following year, probably due to the strain on funds caused by the previous year. The same scenario occurs in East Africa, whereby although Uganda held an election in 2006, the publication output rose. Kenya also held an election in 1997 with an increase in its publication output.

The independence of South Africa in 1994 appears to have had a positive impact on the country's publication output, because from then on it increased, clearly indicating that it had surpassed the East African's output. Stemming from the above, the researcher therefore predicts that the publication output will probably continue rising and falling depending on the political situation that prevails in the two regions.

# 5.8 Most researched subject

This section was meant to identify the subject areas that academic librarians covered most in their publications. The results are illustrated in Table 8 as shown in chapter four. In Eastern Africa, a total of 43 subjects were discussed in 69 publications. The most researched subject was Information Technology, which appeared in 9 (3.42%) publications, followed by the following two topics; Academic Libraries and Congresses which were discussed in 5 (1.90%) publications.

In Southern Africa, a total of 108 subjects were discussed in 194 publications. Bibliography and Library Automation were the most covered subjects, each with a total of 13 (4.94%) publications, followed also by two topics which were; Academic Libraries and Congresses, covered in 12 (4.56%) publications. Book Reviews were in third place with 9 (3.42%) publications.

Academic librarians from both regions were interested in Library Automation, possibly because the period from 1990 to 2006 saw more libraries moving away from manual to automated library systems. In both regions, academic librarians probably published articles on Academic Libraries because they were more familiar with the academic library environment. The results also perhaps illustrate that during this period more conferences were held in Southern Africa than in Eastern Africa.

## 5.9 Most published type of document

Publications may appear in the form of articles, abstracts, books, book reviews, proceedings, etc. In Eastern Africa, most of the 69 publications (58; 22.05%) were articles, followed by proceedings (5; 4.56%), books (5; 1.90%), microforms (1; 0.38%) and theses and book reviews (0; 0.00% each). A similar situation was depicted in Southern Africa, where most of the publications were articles (136; 51.71%), followed by books (26; 9.89%), theses (11; 4.18%), book reviews (9; 3.42%), proceedings (12; 4.56%) and microforms (0; 0.00%). There were a total of 194 publications in Southern Africa (see figure 5). These results indicate that academic librarians from both regions prefer articles to any other form of publication. This preference could be because articles are peer reviewed, are faster and cheaper to produce, and readership is always assured. On the other hand, the poor publication of books could be attributed to Kags' (2008: par.2) argument that Africa lacks a reading culture, and because of this and due to many authors shy away from publishing books. The number of proceedings confirmed that more conferences were being held in Southern Africa than in Eastern Africa, as mentioned earlier.

### 5.10 Nature of collaboration among academic librarians

Weller *et al* (1999) established in their study that 1/3 of the librarians in their study preferred to publish jointly. However, Yazit and Zainab (2007:44) found that most Malaysian Library and Information Science publications were single authored (see chapter two for more details). In Eastern Africa, most (40; 15.21%) of the publications were also single authored. The same results were found in Southern African publications, where again most (125; 47.53%) of the publications were done by individuals single (see figure 6). Academic librarians in both regions probably published individually because of poor library networks connecting libraries and a lack of funding for authors who wished to publish jointly.

## 5.11 Summary

This chapter attempted to discuss the findings of this study based on the data collected and analysed in chapter four. Various reasons were provided as to why a certain region performed poorly or well. The reasons provided however, were purely based on speculation. The researcher hoped that further researches and recommendations suggested in the next chapter would be conducted in future to help shade light on these important emerging and pressing issues.

The next chapter will provide recommendations and a conclusion to the study.

#### CHAPTER SIX

### RECOMMENDATIONS AND CONCLUSION

#### 6.1 Introduction

This chapter provides the summary of the findings and conclusion of the study. The chapter will also include suggested recommendations in all areas that require attention. The aim of this study was to compare research and publication patterns of academic patterns in Eastern and Southern Africa from 1990 to 2006. In order to achieve this two online databases namely WORLDCAT and LISTA were used to retrieve data. Academic librarian's names were retrieved from public university websites. Bibliometrics was employed as a research method, and data was analyzed with the help of Microsoft Excel and displayed in the form of tables and graphs (i.e. line and bar graphs, and pie charts).

### 6.2 Conclusion

The objectives of the study were as follows:

- To examine of what academic librarians publish;
- To establish of why academic librarians publish;
- To determine the publishing trend of academic librarians;
- To determine where academic librarians publish;
- To determine the level of collaboration and
- To establish the quantity of publishing.

The researcher noted that overall the above objectives were achieved, because over half (47; 55.95%) out of 84 public universities libraries (see table 11 and 12 at the back of the report), that were to be included in the study from both regions provided names of their academic librarians online. It was noted that in the East Africa region not much was achieved, because only 14 (31.10%) out of a total of 45 public universities libraries (see table 11) provided the names of their academic librarians. However, the objectives were achieved because out of a total of 39 public academic libraries, 33 (84.60%) provided

names of their academic librarians (see table 12). The researcher was able to retrieve and analyze data for those libraries that provided the names (see back of this report) of their academic librarians from the online databases (LISTA and WORLDCAT).

## 6.3 Gaps and inconsistencies

The following gaps were observed during the study

- University librarians did not update their websites from time to time, did not
  provide all details of their employees necessary for this study i.e. some
  provided the designation of the librarians and not their degree qualifications or
  vice versa.
- Some universities as stated within the study, did not have a website at all on the Internet
- Some libraries did not provide a webpage for their libraries.
- The LISTA was not updated from time to time i.e. when an academic librarian changed employers it was not indicated and sometimes the full name(s) of the academic librarians was not indicated. WORLDCAT on the other hand, did not provide affiliation of the author.
- This study had not been carried out in many countries in Europe, Asia and Africa; therefore there was not much information on the study.
- The researcher noted that even though LISTA database was designated to capture all researches in Library and Information Science, it did not do so. This was observed when data was downloaded from WORLDCAT database; WORLDCAT database had indexed publications that were not provided by LISTA. WORLDCAT database had also portrayed the same. WORLDCAT did not always provide Keywords for publications.

#### 6.4 Recommendations

This section will provide recommendations and suggestion to further research pertaining to this study.

#### 6.4.1 Why should academic librarians publish?

Based on the literature available to the researcher (see chapter two and five), it was noted it was important for academic librarians to publish because of the following important reasons:

- National and international recognition the academic librarian would get;
- It would offer professional recognition to the academic librarian from colleagues and peers such as being called to functions;
- The academic librarian would add to the body of knowledge that goes into creating our professional literature;
- Research would be used to rate professional librarian when need for promotion arises and
- · Academic librarian would gain financially from publishing.

### 6.4.2 What do academic librarians publish?

It was observed from the study that academic librarians needed to diversify the subject areas they researched on, because as noted (see table 8 and 5.8) most academic librarians from both regions concentrated on the following subject areas Information Technology, Libraries and Automation, Academic Libraries, Congresses. Academic librarians in Southern Africa concentrated more on bibliographies. Librarians needed to publish also on the following areas that were not researched on Information Ethics and Policy, Informetrics and Bibliometrics. Librarians from both needed to increase publications more in subject areas that appeared in below five publications e.g. were User Education, Research Methods, Indexing and abstracting and Information Services.

## 6.4.3 Do academic librarians publish?

It was noted that academic librarians from both region preferred publishing individually, however, the researcher wishes to recommend that they should jointly author because this would facilitate the sharing of ideas, skills, lead to improvement of the quality of research and also this would allow for better lobbying of fundings.

### 6.4.4 How much do academic librarians publish?

- There was urgent need for the following Public universities libraries to improve their productivity since they had no publications at all; Somalia National University, Kenyatta University in Kenya, Mzumbe University of Tanzania, Open University of Tanzania, University of Khartoum, Midlands University of Zimbabwe and the following universities in South Africa; University of Venda, Mangusuthu Technikon, Central University of Free State, Nelson Mandela Metropolitan University, and University of Western Cape(see table 4 and 5.4).
- Other public university that had less than 5 publications need to do the same and academic librarian who were one – time or not – publishers (see table 6 and 5.5) needed to increase their publication as well.
- Though it was noted that Southern Africa performed fairly well in terms of production, there was an urgent need for the following countries within this region to improve their research productivity; Zambia, Zimbabwe, Namibia, Swaziland, Ethiopia, Lesotho and Botswana. In Eastern Africa Tanzania performed not so well and in that line it needed to improve more and these countries needed to work hard to improve; Kenya, Uganda, Sudan, Ethiopia, and Somalia [see figures 1, 2 and 5.3].
- This study suggests the following solutions for countries and public universities
  that performed poorly: Academic librarians need to be motivated through the
  provision of research fund and sabbatical leave; they should be awarded in terms
  of promotions for publishing; and employers should allow or encourage
  conference attendance.

## 6.4.5 What is the publication trend of academic librarians?

All academic librarians from both regions should be encouraged to publish regularly. This should be strengthened by provision of incentives such as consistent funding, promotion and sabbatical leave. This would strengthen the publication trend and eliminate the rise and drops in publication trends (see figure 4 and 5.7).

#### 6.4.6 Do academic librarians collaborate?

It was noted that academic librarians from both region preferred publishing individually, however, the researcher wishes to recommend that they should jointly author because this would facilitate the sharing of ideas, skills, lead to improvement of the quality of research and also this would allow for better lobbying of fundings (see figure 6 and 5.7).

#### 6.5 Suggestions for further research

#### It was recommended that:

- Based on the literature retrieved, it was evident that such study had not been carried out before especially in Africa, therefore, a complete and detailed bibliometrics study should be conducted on the research and publication patterns of academic librarians in order to establish issues such as why many academic librarians do not publish, problems faced by academic librarians who publish and what can be done to make it possible for them to publish.
- Further research is also recommended on countries such as Angola, Burundi, Rwanda, Mozambique, and Universities in these two regions that did not provide the names of their academic librarians.
- A detailed research is required on Europe, Asia etc so that the results can be compared with Africa's.

• Finally, further research is required on other parts of Africa such as North, Central and Western in order to attain a complete and detailed picture on the nature of research and publication pattern of the whole continent.

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## APPENDIX A

## TABLE 8: DISTRIBUTION OF ACADEMIC LIBRARIES IN EASTERN AFRICAN PUBLIC UNIVERSITIES

| EAST AFRICA | NAME OF LIBRARY   | AFFILIATION                                | YEAR<br>STARTED  | NO.OF STAFF | AVAILABILITY ON WEB            |
|-------------|---|--|--|-------------|--------------------------------|
| BURUNDI     | Bibliotheque de l'Universite                                    | University of<br>Burundi                   |  |             | Names not available on website |
| DJIBOUTI    | Pole Universitaire De Djibouti Library                          | Pole Universitaire<br>De Djibouti          |  |             | Names not available on website |
| ETHIOPIA    | Addis Ababa University Library                                  | Addis Ababa<br>University                  | 1950   |             | Names not available on website |
|             | Alemaya University Library                                      | Alemaya University                         |  | 2           | Available                      |
|             | Debub University Library  | Debub University                           |  |             | Names not available on website |
| KENYA       | Margaret Thatcher Library                                       | Moi University                             |  | 17          | Available                      |
|             | Nairobi University Library                                      | UON  | 1959   | 24          | Available                      |
|             | Masinde Muliro University of<br>Science & Technology Library    | MMUST                                      |  | 1           | Available                      |
|             | Egerton University Library                                      | Egerton University                         |  | 2           | Available                      |
|             | Maseno University Library                                       | Maseno University                          |  |             | Names not available on website |
|             | Jomo Kenyatta University of<br>Agriculture & Technology Library | JKUAT                                      |  |             | Names not available on website |
|             | Kenyatta University Library                                     | Kenyatta University                        |  | 7           | Available                      |
| RWANDA      | Bibliotheque Universitaire                                      | University of<br>Rwanda                    |  |             | Names not available on website |
| SOMALIA     | Somalia National University Library                             | Somalia National<br>University             |  |             | Names not available on website |
| SUDAN       | AL - Neelain University Library                                 | AL - Neelain<br>University                 |  |             | Names not available on website |
|             | Bahr AL Ghazal University Library                               | Bahr AL Ghazal<br>University               |  |             | Names not available on website |
|             | AL – Zaiem AL – Azhari University<br>Library                    | AL – Zaiem AL –<br>Azhari University       |  |             | Names not available on website |
|             | Bakhet EL - Rudda University Library                            | Bakhet EL – Rudda<br>University            |  |             | Names not available on website |
|             | University of Dongola Library                                   | University of Dongola                      |  |             | Names not available on website |
|             | EL - Dalang University Library                                  | University of<br>Dongola Library           |  |             | Names not available on website |
|             | EL- Gadarif University Library                                  | EL- Gadarif<br>University                  |  |             | Names not available on website |
|             | El – Imam El – Mahdi University<br>Library                      | El – Imam El –<br>Mahdi University         |  |             | Names not available on websit  |
|             | University of Holy Quran & Islamic<br>Science Library           | University of Holy Quran & Islamic Science |  |             | Names not available on website |
|             | Kassala University Library                                      | Kassala University                         |  |             | Names not available on websit  |
|             | University of Khartoum Library                                  | University of<br>Khartoum                  | 1945   | 3           | Available                      |
|             | University of Kordofan Library                                  | University of<br>Kordofan                  | A Delivery of the Control of the Con |             | Names not available on websit  |
|             | Nile Valley University Library                                  | Nile Valley<br>University                  |  |             | Names not available on websit  |
|             | Nyala University Library  | Nyala University                           |  |             | Names not available on websit  |
|             | Omdurman Islamic University Library                             | Omdurman Islamic                           |  |             | Names not available on websit  |

|          |   | University                                     |      |    |                                |
|----------|---|--|------|----|--------------------------------|
|          | Red Sea University Library                              | Red Sea University                             |      |    | Names not available on website |
|          | Shendi University Library                               | Shendi University                              |      |    | Names not available on website |
|          | Upper Nile University Library                           | Upper Nile<br>University                       |      |    | Names not available on website |
|          | Sudan University of Science &<br>Technology Library     | Sudan University of<br>Science &<br>Technology | 1950 |    | Names not available on website |
|          | University of West Kordofan Library                     | University of West<br>Kordofan                 |      |    | Names not available on website |
|          | University of Zalengi Library                           | University of Zalengi                          |      |    | Names not available on website |
| TANZANIA | University of Dar Es Salaam Library                     | UDSU   | 1961 | 11 | Available                      |
|          | Sokoine National Agricultural<br>Library(SNAL)          | SUA  |      | 14 | Available                      |
|          | University of Bukoba Library                            | Bukoba University                              |      |    | Names not available on website |
|          | Mzumbe University Library                               | Mzumbe University                              |      | 3  | Available                      |
|          | Open University of Tanzania Library                     | Open University of<br>Tanzania                 |      | 8  | Available                      |
|          | Zanzibar University Library                             | University of<br>Zanzibar                      |      |    | Names not available on website |
| UGANDA   | Makerere University Library                             | Makerere University                            | 1946 | 20 | Available                      |
|          | Kyambogo Library  | Kyambogo<br>University                         |      |    | Names not available on website |
|          | Gulu University Library                                 | Gulu University                                |      |    | Names not available on website |
|          | Mbarara University of Science and<br>Technology Library | MUST   |      |    | Names not available on website |
| TOTAL    | T   |  | }    |    |                                |

 TABLE 9: DISTRIBUTION OF ACADEMIC LIBRARIES IN SOUTHERN AFRICAN PUBLIC UNIVERSITIES

| SOUTHERN<br>AFRICA | NAME OF<br>LIBRARY                               | AFFILIATION                             | YEAR<br>STARTED | NO. OF<br>STAFF | QUALIFICATIONS/DESIGNATI<br>ON |
|--------------------|--|---|-----------------|-----------------|--------------------------------|
| ANGOLA             | Agostinho Neto<br>University Library             | Agostinho Neto<br>University            |                 |                 | Names not available on website |
| BOTSWANA           | University of<br>Botswana Library                | University of Botswana                  |                 | 49              | Available                      |
| LESOTHO            | University of Lesotho<br>Library                 | University of Lesotho                   |                 | 17              | Available                      |
| MALAWI             | University of Malawi<br>Library                  | University of Malawi                    | 1965            | 3               | Available                      |
|                    | University of Mzuzu<br>Library                   | University of Mzuzu                     |                 | 9               | Available                      |
| MAURITHUS          | University of<br>Technology Mauritius<br>Library | University of Technology<br>Mauritius   |                 |                 | Names not available on website |
| MOZAMBIQ<br>LE     | Universidade Eduardo<br>mondlane Library         | Universidade Eduardo  Mondlane          |                 |                 | Names not available on website |
|                    | Universidade<br>Pedagogica Library               | Universidade Pedagogica                 |                 |                 | Names not available on website |
| NAMIBIA            | University of Namibia<br>Library                 | University of Namibia                   |                 | 15              | Available                      |
| SOUTH<br>AFRICA    | University of Cape<br>Town Library               | University of Cape Town                 | 1905            | 54              | Available                      |
|                    | University of Fort<br>Hare Library               | University of Fort Hare                 | 1916            | 19              | Available                      |
|                    | University of Kwa<br>Zulu Natal Library          | University of Kwa Zulu Natal            |                 | 51              | Available                      |
|                    | Cape Peninsula<br>University of                  | Cape Peninsula University of Technology |                 | 15              | Available                      |

|                            | T-1-1-1-1  | <del></del>                                       |             | <del></del> |                                 |
|----------------------------|--|---|-------------|-------------|---------------------------------|
| i                          | Technology Library   | Duday Hairowit - f                                | <del></del> | 56          | Available                       |
|                            | Durban University of<br>Technology Library                   | Durban University of<br>Technology                |             |             |                                 |
|                            | University of Free<br>State Library                          | University of Free State                          |             | 15          | Available                       |
|                            | University of<br>Johannesburg Library                        | University of Johannesburg                        |             | 18          | Available                       |
|                            | University of Limpopo<br>Library                             | University of Limpopo                             |             | 13          | Available                       |
|                            | Mangosuthu<br>Technikon Library                              | Mangosuthu Technikon                              |             | 23          | Available                       |
|                            | Nelson Mandela<br>Metropolitan<br>University Library         | NMMU  | 1901        | 36          | Available                       |
|                            | North-West University<br>Library                             | North-West University                             |             | 19          | Available                       |
|                            | University of Rhodes<br>Library                              | University of Rhodes                              |             | 5           | Available                       |
|                            | University of Pretoria<br>Library                            | University of Pretoria                            | 1908        | 114         | Available                       |
|                            | UNISA Library  | UNISA   | 1947        | 11          | Available                       |
|                            | University of<br>Stellenbosch Library                        | University of Stellenbosch                        | 1895        | 16          | Available                       |
|                            | Tshwane University of<br>Technology Library                  | Tshwane University of Technology                  |             | 29          | Available                       |
|                            | Vaal University of<br>Technology Library                     | Vaal University of<br>Technology                  |             | 13          | Availbale                       |
|                            | Central University of<br>Technology Library                  | Central University of<br>Technology               |             | 7           | Available                       |
| i                          | University of Venda<br>for Science and<br>Technology Library | University of Venda for<br>Science and Technology |             | 7           | Available                       |
|                            | Walter Sisulu University of Technology and Science Library   | WSUTS   | 1922        | 1           | Available                       |
|                            | University of Western<br>Cape Library                        | University of Western Cape                        |             | 21          | Available                       |
|                            | University of Witwatersrand Library                          | University of Witwatersrand                       |             | 34          | Available                       |
|                            | University of Zululand<br>Library                            | University of Zululand                            |             | 12          | Availabl                        |
| KINGDOM<br>OF<br>SWAZILAND | University of<br>Swaziland Library                           | University of Swaziland                           |             | 12          | Available                       |
| ZAMBIA                     | University of Zambia<br>Library                              | University of Zambia                              | 4           | 14          | Available                       |
|                            | Copperbelt University Library                                | Copperbelt University                             |             | 11          | Avaílable                       |
| ZIMBABWE                   | University of Zimbabwe Library                               | University of Zimbabwe                            | 1956        | 22          | Available                       |
|                            | Bindura University of<br>Science Education<br>Library        | Bindura University of Science<br>Education        |             |             | Names, not available on website |
|                            | Midlands State<br>University Library                         | Midlands State University                         |             | 9           | Available                       |
|                            | National University of science and Technology Library        | NUST  |             |             | Names not available on website  |
|                            | Zimbabwe Open<br>University Library                          | Zimbabwe Open University                          |             | 2           | Available                       |

Source: The Europa World of Learning, 2007, 57th ed. London: Routledge, 2006, Vol.1 and 11.

# MASTERS STUDIES IN LIBRARY AND INFORMATION SCIENCE: SITIENEI G.C. (Student No. 20056989)

| NO | Activities                      | TIM  | 1E /D  | UR | ATIO | N            | _  |    |  |   |  |  |   |          |   |  |   |   |             |     |   |   |              |
|----|---------------------------------|------|--|----|------|--------------|--|----|--|---|--|--|---|----------|---|--|---|---|-------------|-----|---|---|--------------|
|    | YEAR                            | 2007 | 7  |    |      |              | 20   | 08 |  |   |  |  |   |          |   |  |   |   | 20          | 09  |   |   |              |
|    |                                 | A    | S  | O  | N    | D            | J  | F  | M  | A | M  | J  | J | A        | S | 0  | N | D | J           | F   | M | A | M            |
| 1  | Proposal                        |      |  |    |      | 1            |  | -  |  |   |  |  |   | <u> </u> | _ | _  |   |   |             |     |   |   | <u> </u>     |
|    | development and                 |      |  |    |      |              |  |    |  | ļ |  |  |   |          |   |  |   |   |             |     |   |   |              |
|    | defense                         |      |  |    |      |              |  |    |  |   |  |  |   |          |   |  |   |   |             |     |   |   |              |
| 2  | Chapter one                     |      |  |    |      |              |  |    |  |   |  |  |   |          |   | <del>                                     </del> |   |   |             |     |   |   |              |
| 3  | Chapter two                     | -    |  |    |      |              | ,  |    | _  |   | -  |  | _ |          |   |  |   |   |             |     |   |   |              |
| 4  | Chapter three                   |      |  |    |      |              |  |    | <u>.                                    </u> |   | <del>                                     </del> | <del>                                     </del> |   |          |   | <del>                                     </del> |   |   | <del></del> |     |   | - |              |
| 5  | Chapter four                    |      | †  | -  |      | 1            | -  |    |  |   | 1  |  |   |          |   |  |   |   |             |     |   |   | <del> </del> |
| 6  | Chapter five                    |      | $\dagger$  |    |      | 1            |  |    |  |   |  |  | 1 |          |   |  |   |   | <b></b> -   |     |   | _ |              |
| 7  | Chapter six                     |      | <del>                                     </del> |    |      |              | <del>                                     </del> | -  | $\dagger$                                    |   |  |  |   |          |   | <u> </u>   |   |   |             |     |   |   |              |
| 8  | Thesis collation and correction |      |  |    |      |              |  |    |  |   |  |  |   |          |   |  |   |   |             |     |   |   |              |
| 9  | Thesis out to external examiner |      |  |    |      |              |  |    |  |   |  |  |   |          |   |  |   |   |             |     |   |   |              |
| 10 | Back From examiner              |      |  |    |      |              |  |    |  |   |  |  |   |          |   |  |   |   |             |     |   |   |              |
| 11 | Graduation                      |      |  |    |      | <del> </del> | -  | _  |  |   |  |  |   | -        |   |  |   |   |             | 1 - |   |   |              |

DATABASE COLLECTION SPREADSHEET FOR EASTERN AFRICA FROM WORLDCAT/ LISTA DATABASE

APPENDIX B

| COUNTRY | AUTHOR      | CO-<br>AUTHOR   | CO-AUTHOR AFFILIATION | NO | TITLE OF DOCUMENT               | YP   | SUBJECT         | NOP | DOC<br>TYPE | JOURNAL               | LIBRARY     |
|---------|-------------|-----------------|-----------------------|----|---------------------------------|------|-----------------|-----|-------------|-----------------------|-------------|
| ETHOPIA | Mammo,Y     |                 |                       | Ī  | The role of the Internet for    | 2003 | Agricultural    | 1   | Article     | Quarterly Bulletin of | Alemaya     |
|         | }           |                 | }                     |    | the agricultural sector in      |      | Information     |     |             | the International     | University  |
|         |             |                 |                       |    | Ethiopia: potentials,           |      | Network         |     |             | Association of        | of          |
|         |             |                 |                       |    | challenges and prospects.       |      |                 |     |             | Agriculture           | Agriculture |
|         |             | }               |                       |    |                                 |      |                 |     |             | Information           | }           |
|         |             |                 |                       |    |                                 |      |                 |     |             | Specialist            |             |
| KENYA   | Inoti.V.1   | -               | -                     | 2  | The trend of interlending       | 1992 | Academic        |     | Article     | Journal of ILL &      | University  |
|         |             |                 |                       |    | activity in Kenya: an overview. |      | libraries       |     |             | Document Supply       | of Nairobi  |
|         | Inoti, V.L. | Matanji, P.     |                       | 3  | Interlending and document       | 1990 | Document        | 2   | Article     | Information           | University  |
|         |             |                 |                       |    | supply in Kenya.                |      |                 |     | TE          | Management            | of Nairobi  |
|         |             |                 |                       |    |                                 |      | delivery        |     |             |                       |             |
|         | Muriithi,F. | Were, J         | Unknown               | 4  | First IAALD Africa              | 2006 | Conference      |     | Proceedings | Quarterly Bulletin of | University  |
|         |             |                 |                       |    | conference-a new chapter is     |      | proceedings     |     |             | the International     | of Nairobi  |
|         |             |                 |                       |    | born.                           |      |                 |     |             | Association of        |             |
|         |             |                 |                       |    |                                 |      |                 |     |             | Agriculture           |             |
|         |             |                 |                       |    |                                 |      |                 |     |             | Information           |             |
|         |             |                 |                       |    |                                 |      |                 |     |             | Specialist            |             |
|         | Were,J.     | Kay, R. & et al | IFLA Fellow           | 5  | Tsunami.                        | 2005 | Electronic data | 2   | Articles    | IFLA Journal          | University  |
|         |             |                 |                       |    |                                 |      | processing      |     |             |                       | of Nairobi  |
|         | Shibanda,   | -               | -                     | 6  | Media paradigm in               | 2003 | HIV infection   |     | Article     | Quarterly Bbulletin   | Masinde     |

|  | G.G.        |             |                |    | HIV/AIDS dimension among       |      |             |         | of the International | Muliro     |
|--|-------------|-------------|----------------|----|--------------------------------|------|-------------|---------|----------------------|------------|
|  |             | 1           |                |    | Kenyan smallholders            |      |             |         | Association of       | University |
|  |             |             |                |    | knowledge adoption.            | [    |             |         | Agriculture          | of Science |
|  |             |             |                |    |                                |      |             |         | Information          | and        |
|  |             | }           | }              |    |                                |      | 1           |         | Specialist           | Technology |
| Andrew Manhamman Communication and the conference of the conferenc | Shibanda,   | Musisi-     | Moi university | 7  | Managing and developing the    | 2000 | Information | Article | Library Management   | Masinde    |
|  | G.G.        | Edebe,L. E. |                |    | strategy for Africa's          |      | technology  |         |                      | Muliro     |
|  | }           | }           | 1              | 1  | information in global          |      | }           |         |                      | University |
|  |             |             |                |    | computerization.               |      |             |         |                      | of Science |
|  | :           |             |                |    |                                |      |             |         |                      | and        |
|  |             |             |                | 1  |                                |      | 1           | }       |                      | Technology |
|  | Shibanda,   | -           |                | 8  | Collection development as      | 1994 | Academic    | Article | Library Review       | Masinde    |
|  | G,G.        |             |                |    | performance management         |      | libraries   |         |                      | Muliro     |
|  |             |             |                | }  |                                |      |             | }       |                      | University |
|  |             |             |                | }  |                                |      |             |         |                      | of Science |
|  |             |             |                |    |                                |      |             |         |                      | and        |
|  |             |             |                |    |                                | }    | 1           |         |                      | Technology |
|  | Shibanda,   |             | -              | 9  | Information for agriculture in | 1991 | Rural       | Article | Information          | Masinde    |
|  | G.G.        |             |                |    | Kenya.                         |      | development |         | Development          | Muliro     |
|  |             |             |                |    |                                |      |             |         |                      | University |
|  |             |             |                |    |                                |      |             |         |                      | of Science |
|  |             |             |                |    |                                |      |             |         |                      | and        |
|  |             |             |                |    |                                |      |             |         |                      | Technology |
|  | Shibanda,G. | -           | -              | 10 | Optimizing fisheries           | 1999 | Fish        | Article | Library Review       | Masinde    |
|  | G.          |             |                |    | information for decision       |      | information |         |                      | Muliro     |
|  | ,           |             | }              |    | making among Kenyan fish       |      | ]           |         |                      | University |
|  |             |             |                |    | pond smallholders              |      |             |         |                      | of Science |

| gramma and the supply of the s |             |             |               |    |                                |      |             |   |          |                    | and        |
|--|-------------|-------------|---------------|----|--------------------------------|------|-------------|---|----------|--------------------|------------|
|  |             |             |               |    | }                              |      | }           | } |          |                    | Technology |
|  | Shibanda,   | -           | -             | 11 | Multimedia computer utility    | 2002 | Human       | 6 | Articles | Campus Wide        | Masinde    |
|  | G.G.        |             |               |    | framework for Moi              |      | resource    |   |          | Information System | Muliro     |
|  |             |             |               |    | University management          |      | library     |   |          |                    | University |
|  |             |             |               | i  | information system             |      |             |   |          |                    | of Science |
|  |             |             |               |    |                                |      | ]           |   |          |                    | and        |
|  |             | }           |               |    |                                | }    |             |   | ļ        |                    | Technology |
| parameter office of gave experience aspectationals and the 1999  | Odini, S.O. | <u>.</u>    | -             | 12 | Managing a reserve             | 1997 | Reserve     |   | Article  | Library Review     | Moi        |
|  |             |             |               |    | collection: the case of Moi    |      | collection  |   |          |                    | University |
|  |             |             |               |    | University library             |      |             |   |          |                    |            |
| THE RESERVE OF THE PROPERTY OF | Arap Tanui, | Ocholla, D. | University of | 13 | The construction and           | 1997 | Library     |   | Article  | Library Review     | Moi        |
|  | T.          |             | Zululand      |    | development of a library       |      | building    |   |          |                    | University |
|  |             |             |               |    | building: Moi university       |      | 1           |   | Ì        |                    |            |
|  |             |             |               |    | library/faculty.               |      |             |   |          |                    |            |
|  | Khamadi,    | -           | -             | 14 | Moi university library's       | 1996 | Library     |   | Article  | Library Review     | Moi        |
|  | S.L.        |             |               |    | bibliographic instruction      | 1    | orientation |   |          |                    | University |
|  |             |             |               |    | programme                      |      |             |   |          |                    | ļ          |
|  | Khamadi,    | -           | -             | 15 | A proposal for change at Moi   | 1994 | Human       | 2 | Articla  | New Library World  | Moi        |
|  | S.LD.       |             |               |    | University Library: staff      |      | resource -  |   | 1        |                    | University |
|  |             |             |               |    | development, training and      |      | library     |   |          |                    |            |
|  |             |             |               |    | promotion                      |      |             |   |          |                    |            |
|  | Bii, H.K.   | Wanyama,P.  |               | 16 | Automation and its impact on   | 2001 | Information | 1 | Article  | Library Management | Moi        |
|  |             |             |               |    | the job satisfaction among the |      | technology  |   |          |                    | University |
|  |             |             |               |    | staff of MTL, Moi University   |      |             |   |          |                    |            |
| ,  | Arap Tirong | Kiloi, A.S. |               | 17 | Why Marketing? The             | 1993 | Marketing   | 1 | Article  | Library Management | Moi        |
|  | ,T.         |             |               |    | experience of Moi University   |      |             |   |          |                    | University |

|  |                    |                            |   |    | Library Kenya   |      |                              |   |             |   | T                     |
|--|--------------------|----------------------------|---|----|---|------|------------------------------|---|-------------|---|-----------------------|
|  | Arap<br>Tirong, T  | Rosenberg<br>Diana         |   | 18 | Income generation: experiences from eight university libraries in Eastern, Central & Southern Africa  | 2001 | Library –<br>finance- Africa |   | Article     | Oxford publishers   | Moi<br>university     |
| ann ann an Arman de Lagadora, and ann an Arman ann ann | Arap<br>Tirong, T. | Muriithi,F.                |   | 19 | Proceedings of the standing conference for African National & Central & Southern Africa(SCANUL – ECS), Maseru, Lesotho 5 <sup>th</sup> – 8 <sup>th</sup> Dec 1996 | 1998 | Congresses                   |   | Proceedings | Eldoret, SCANUL(ECS)  | Moi<br>University     |
|  | Arap<br>Tirong, T. | -                          | -                                       | 20 | Standardization of bibliographic data: the African perspective  | 1992 | Cataloguing                  |   | Article     | Library Review  | Moi<br>University     |
| en i i i i i i i i i i i i i i i i i i i               | Arap<br>Tirong, T. | -                          | -                                       | 21 | Library cataloguing:<br>relevance to modern library<br>users  | 1992 | Cataloguing                  | 6 | Article     | Library review  | Moi<br>University     |
|  | Nyamboga,<br>C.M.  | Kemparaju,<br>T.D. & et al | Dept, of LIS<br>Juana<br>Bharathi,India | 22 | Evaluation of university websites targeting English speaking users: a comparative analysis of selected sites in developed and developing countries                | 2006 | Internet                     |   | Article     | Malaysian Journal of<br>LIS   | Egerton<br>University |
|  | Mwanzilo,<br>P.K.  | -                          | -                                       | 23 | Sharing information on the best practices in sustainable development in Kenya   | 2005 | Agricultural<br>literature   | 1 | Article     | Quarterly Bulletin of<br>the International<br>Association of<br>Agriculture | Egerton<br>University |

|  |                   |               |            |    |   |      |                      |   |         | Information Specialist             |                       |
|--|-------------------|---------------|------------|----|---|------|----------------------|---|---------|------------------------------------|-----------------------|
| ALIEN FRANCE                           | Nyamboga,<br>C.M. | -             |            | 24 | Information skills and information literacy in Indian | 2004 | Information resource |   | Article | Electronic Library and Information | Egerton<br>University |
|  |                   | }             | 1          |    | university fibraries.                                 |      | management           |   |         | Systems                            |                       |
|  | Nyamboga,         | -             | -          | 25 | IT in university libraries in                         | 2002 | IT                   |   | Article | Information                        | Egerton               |
|  | C.M.              |               |            |    | Karnataka   |      |                      |   |         | Management                         | University            |
|  | Nyamboga,         | Ongus,R. & et | Egerton    | 26 | Experience in the use of the                          | 2004 | Internet in          | 6 | Article | DESIDOC Bulletin                   | Egerton               |
|  | C.M.              | al            | University |    | Internet at Egerton university                        |      | reference            |   |         | of Information                     | University            |
|  |                   |               |            |    | Njoro-Kenya.  |      | service              |   |         | Technology                         |                       |
|  | Ongus ,           | Nyamboga,C.   | Egerton    | 27 | Digitizing a research library:                        | 2004 | Digital              |   | Article | SRELS Journal of                   | Egerton               |
|  | R.W.              | М.            | University |    | Egerton university - Kenya.                           |      | libraries            |   |         | Information                        | University            |
|  |                   |               |            |    |   |      |                      |   |         | Management                         |                       |
|  | Ongus,            | Nyamboga,C.   | Egerton    | 28 | Electronic document delivery                          | 2002 | Collection           |   | Article | SRELS Journal of                   | Egerton               |
|  | R.W.              | M.            | University |    | for supporting agricultural                           |      | development          |   |         | Information                        | University            |
|  |                   |               |            |    | research in Kenya: the                                |      |                      |   |         | Management                         |                       |
|  |                   |               |            |    | experience of Egerton                                 |      |                      |   |         |                                    |                       |
|  |                   |               |            |    | University library.                                   |      |                      |   |         |                                    |                       |
|  | Liyai, H.A        | Odhiambo,L.O  |            | 29 | Studies on cooperatives: co-                          | 1990 | bibliography         |   | Book    | Kenyan Economic                    | University            |
|  |                   | . & et al     |            | ļ  | operatives development in                             |      |                      |   |         | Association                        | of Nairobi            |
|  | j                 |               | J          | }  | Kenya: a bibliography                                 |      |                      |   |         |                                    |                       |
| y ,                                    | Kabatesi          | Liyai,H.A.    | UON        | 30 | Press law: IT and freedom of                          | 1994 | Telecommunic         | 2 | Book    | Centre for law                     | University            |
|  |                   |               |            |    | the press   |      | ation-law &          |   |         | Research                           | of Nairobi            |
|  |                   |               |            |    |   |      | legislation          |   |         | International                      |                       |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                   |               |            | 0  |   |      |                      | 0 |         |                                    | Kenyatta              |

|  |             |               |                   |       |                               |      |               |   |          |                      | University  |
|--|-------------|---------------|-------------------|-------|-------------------------------|------|---------------|---|----------|----------------------|-------------|
| Tanzania   |             |               |                   | 0     |                               |      |               | 0 |          |                      | Mzumbe      |
|  |             |               |                   |       |                               |      | !             |   |          |                      | University  |
|  |             |               |                   | 0     |                               |      |               | 0 |          |                      | Open        |
|  |             |               | }                 |       |                               | }    | ļ<br>(        |   |          |                      | University  |
|  |             |               |                   |       |                               |      |               |   |          |                      | of Tanzania |
| and the second s | Msuya,J.    | -             | -                 | 31    | Serials mutilation hazard at  | 1991 | Collection    | 7 | Article  | Library and Archival | University  |
|  |             | 1             |                   |       | university of Dar es salaam   |      | management    |   |          | Security             | of Dar Es   |
|  |             |               |                   |       | library in Tanzania           |      | (libraries)   |   |          |                      | Salaam      |
|  | Manda ,P.A. | -             | •                 | 32    | Electronic resource usage in  | 2005 | Electronic    |   | Article  | Information          | University  |
|  |             |               | 1                 |       | academic and research         |      | resources     |   |          | Development          | of Dar Es   |
|  |             |               |                   |       | institutions in Tanzania      |      |               |   |          |                      | Salaam      |
|  | Manda, P.A. | _             | -                 | 33    | Information and agricultural  | 2002 | Information   | 2 | Article  | Information          | University  |
|  |             |               | 1                 |       | development in Tanzania: a    |      | dissemination |   |          | Development          | of Dar Es   |
|  |             |               |                   |       | critique                      |      |               |   |          |                      | Salaam      |
| , , , , , , , , , , , , , , , , , , ,  | Kiondo, E.  | -             |                   | 34    | Resource mobilization for     | 2002 | Information   | 1 | Article  | African Journal of   | University  |
|  |             | }             |                   |       | library and information       |      | profession    |   |          | LIS                  | of Dar Es   |
|  |             |               |                   | ļ<br> | service development in Africa |      |               |   |          |                      | Salaam      |
| ,  | Msuya,J.    | -             | -                 | 35    | Computerizing the library     | 2001 | Libraries -   |   | Article  | Information          | University  |
|  |             |               |                   |       | catalogue with ADLIB at the   |      | automation    |   |          | Management           | of Dar Es   |
|  |             |               |                   |       | University of Dar es salaam.  |      |               |   |          |                      | Salaam      |
| and a self-supplemental and the Post II.   | Msuya, J.   | -             | -                 | 36    | The information studies       | 2005 | Information   |   | Articles | Information          | University  |
|  |             | ļ             |                   |       | program of the University of  | !    | services      |   |          | Management           | of Dar Es   |
|  |             |               |                   |       | Dar es salaam perception of   |      |               |   |          |                      | Salaam      |
|  |             |               |                   |       | stakeholders.                 |      |               |   |          |                      |             |
|  | Msuya, J    | Matovelo D.S. | Library professor | 37    | Towards developing            | 2006 | Information   |   | Article  | Quarterly Bulletins  | University  |
|  |             | & et al       | university of Dar |       | procative information         |      | resource      |   |          | of the International | of Dar Es   |

|   |             |              | es salaam    |    | acquisition practices among     |      | management  |   |          | Association of       | Salaam     |
|---|-------------|--------------|--------------|----|---------------------------------|------|-------------|---|----------|----------------------|------------|
|   |             |              | 1            | ļ  | smallholders farmers for        |      | 1           |   |          | Agricultural         |            |
|   |             |              | }            |    | empowerment and poverty         |      |             |   |          | information          |            |
|   |             |              |              |    | reduction: situation analysis   |      |             |   |          | specialists          |            |
|   | Msuya, J.   | Farijala, M. | Unknown      | 38 | The provision of library and    | 2002 | Information | 1 | Articles | Libri: International | University |
|   |             |              |              | Ì  | information services to         |      | services    |   |          | Journal of LIS       | of Dar Es  |
|   |             |              |              |    | distance learners; the open     |      |             |   |          |                      | Salaam     |
|   |             |              |              |    | University of Tanzania(OUT)     |      |             |   |          |                      |            |
|   | Nawe, J. E. | -            | -            | 39 | Leadership challenges in high   | 2001 | Library     |   | Article  | Library Review       | University |
|   |             |              |              |    | education libraries in East     |      | science     |   |          |                      | of Dar Es  |
|   |             | 1            |              |    | Africa                          |      | }           |   |          |                      | Salaam     |
| *************************************** | Nawe, J.E.  | -            | -            | 40 | The future of library and       | 2001 | Information |   | Article  | Library Review       | University |
|   |             |              |              |    | information services in         |      | specialists |   |          |                      | of Dar Es  |
|   |             | 1            |              |    | Tanzania                        |      | 1           |   |          |                      | Salaam     |
|   | Nawe, J.E.  | Wema, E. F.  | National     | 41 | Prospects and traumas of        | 2000 | Academic    |   | Article  | Information          | University |
|   |             |              | construction |    | computer-aided services in      |      | libraries   |   |          | Management           | of Dar es  |
|   | }           |              | council      |    | university libraries: a case of |      |             |   |          |                      | salaam     |
|   |             |              |              |    | the University of Dar es        |      |             |   |          |                      |            |
|   |             |              |              |    | salaam                          |      |             |   |          |                      |            |
|   | Nawe, J.E   |              | -            | 42 | Using information and           | 2000 | ľr          | 7 | Article  | Information          | University |
|   |             |              |              |    | communication technologies      |      |             |   |          | Management           | of Dar es  |
|   |             |              |              |    | in Tanzania responses of        |      |             |   | JI       |                      | salaam     |
|   |             |              |              |    | information professionals       |      |             |   |          |                      |            |
|   | Nawe, J.E.  | -            | -            | 43 | Information technology for      | 1998 | IT          | 1 | Article  | Information          | University |
|   |             |              |              |    | the info-poor; experiences of   |      |             |   |          | Development          | of Dar es  |
|   |             |              |              |    | the University of Dar –es –     |      |             |   |          |                      | salaam     |
|   |             |              |              |    | salaam library                  |      |             |   |          |                      |            |

|   | Nawe, J.E.     | -              | -                 | 44 | Work - relatd stress among      | 1998 | Academic      |   | Article  | Information           | University   |
|---|----------------|----------------|-------------------|----|---------------------------------|------|---------------|---|----------|-----------------------|--------------|
|   |                |                |                   |    | the library and information     |      | libraries     |   |          | Development           | of Dar es    |
|   |                |                |                   |    | workers                         |      |               |   |          |                       | salaam       |
|   | Dulle,F.W.     | +              | -                 | 45 | The extension triad approach    | 2000 | Agricultural  |   | Article  | Journal of            | Sokoine      |
|   |                |                |                   |    | in disseminating agricultural   |      | information   |   |          | Information Science   | National     |
|   |                |                |                   |    | information to extension        |      | services      |   |          |                       | Agricultural |
|   |                |                | 1                 | [  | workers                         |      |               |   |          |                       | University   |
|   | Mulimila,,     | _              | -                 | 46 | IT application in East Africa   | 2000 | Libraries     | 1 | Article  | Library Review        | Sokoine      |
|   | R.T.           |                |                   |    | government - owned              |      | automation    |   |          |                       | National     |
|   |                |                |                   |    | university libraries.           |      | i             |   |          |                       | Agricultural |
|   |                |                |                   |    |                                 |      |               |   |          |                       | University   |
|   | Dulle,F.W.     | Lwehabura, M   | University of Dar | 47 | Researchers' perspective on     | 2001 | Agricultural  |   | Articles | Library Review        | Sokoine      |
| i |                | J.F. & et al   | es salaam         |    | agricultural libraries as       |      | libraries     |   |          |                       | National     |
|   |                |                |                   |    | information sources in          |      |               |   |          |                       | Agricultural |
|   |                |                |                   |    | Tanzania                        |      |               |   |          |                       | University   |
|   | Lwoga, E.T.    | Wanyenda, C.   | Unknown           | 48 | Open access and open source:    | 2006 | Information   | 1 | Article  | Quarterly Bulletin of | Sokoine      |
|   |                |                |                   |    | considerations for agricultural |      | resource      |   |          | the International     | National     |
|   | l <sup>e</sup> |                |                   |    | academic libraries in           |      | management    |   |          | Association of        | Agricultural |
|   | Ì              | 1              | 1                 | 1  | promoting collaboration and     |      |               |   |          | Agriculture           | University   |
|   |                |                |                   |    | sharing of information and      |      |               |   |          | Information           |              |
|   |                |                |                   |    | knowledge                       |      |               |   |          | Specialist            |              |
|   | Dulle,F.W.     | Mulimila, R.T. | SUA               | 49 | Application of information      | 2002 | IT            |   | Article  | Journal of            | Sokoine      |
|   |                | & et al        |                   |    | technology for research in      |      |               |   |          | Information           | National     |
|   |                |                |                   |    | Tanzania: feedback from         |      |               |   |          | Technology            | Agricultural |
|   |                | }              |                   |    | agricultural researchers        |      |               |   |          |                       | University   |
|   | Nawe, J.E.     |                | -                 | 50 | Need and priority areas for     | 1991 | Comparative   |   | Article  | IFLA Journal          | University   |
|   |                |                |                   |    | continuing education for sub    |      | librarianship |   |          |                       | of Dar es    |

|   |            |           |   |    | and professional information,<br>library and archives personnel<br>in Tanzania. |      |              |   |             |                      | salaam     |
|---|------------|-----------|---|----|---|------|--------------|---|-------------|----------------------|------------|
|   | Nkhoma-    | -         | - | 51 | Training and management of  | 2004 | Congresses   |   | Proceedings | University of Dar Es | University |
| ; | Wamunza,   |           |   |    | information services in the   |      |              |   |             | Salaam Library       | of Dar es  |
|   | A.G.       |           |   |    | new millennium:16th -19th   |      |              |   |             |                      | salaam     |
|   |            |           |   |    | Oct, 2002 Bagamoyo,   |      |              |   |             |                      |            |
|   |            |           |   |    | Tanzania, proceedings   |      |              |   |             |                      |            |
|   | Nkhoma-    | -         | - | 52 | Information technology  | 1997 | IT- Tanzania | 2 | Microform   | University of North  | University |
|   | Wamunza,   |           |   |    | transfer policy and   |      |              |   |             | Carolina at Chapel   | of Dar es  |
|   | A.G.       |           | } |    | development in Tanzania: a  |      |              |   |             | Hill                 | salaam     |
|   |            |           |   |    | case study  |      |              |   |             |                      |            |
|   | Msuya,J.   | -         | - | 53 | Developing a library research   | 2002 | Library      |   | Article     | Information          | University |
|   |            |           |   |    | agenda at the University of   |      | research     |   |             | Management           | of Dar es  |
|   |            |           |   |    | Dar es salaam   |      |              | 1 |             |                      | salaam     |
|   | Msuya, J.  | •         | - | 54 | Rural library programme as a  | 1992 | congresses   | 4 | Book        | Tanzania Library     | University |
|   | }          |           |   |    | response to the challenge of  |      |              |   |             | Association          | of Dar es  |
|   |            |           |   |    | relapsing into illiteracy: has  |      |              |   |             |                      | salaam     |
|   |            |           |   |    | Tanzania got the programme  |      |              |   |             |                      |            |
|   |            |           |   |    | right: SCESCAL TEN, 27  |      |              |   |             |                      | Ì          |
|   |            |           |   |    | July – 1st August,1992  |      |              |   |             |                      |            |
|   | Kiondo, E. | Kimbunga, | - | 55 | Information services in   | 1992 | Information  | 1 | Book        | Dar es salaam        | University |
|   |            | T.M.      |   |    | Tanzania academic libraries :   |      | services     |   |             | SCECSAL – TEN        | of Dar es  |
|   |            |           |   |    | problems and future   |      |              |   |             |                      | salaam     |
|   | Kabudi,A.M | -         | - | 56 | The development and   | 1997 | Academic     | 1 | Book        | Berlin, Koster       | University |
|   | .м         | 1         |   |    | provision of scientific and   |      | libraries    |   |             |                      | of Dar es  |
|   |            |           |   |    | technical information services  |      |              |   |             |                      | salaam     |

|        | T           |                | ·          |    | in Tanzania, with reference to  | ı — — |                |   | T       |                     | T            |
|--------|-------------|----------------|------------|----|---------------------------------|-------|----------------|---|---------|---------------------|--------------|
|        |             |                |            | ÷  | university libraries            |       |                |   |         |                     |              |
|        | Dulle, F.W. |                |            | 57 | Networking agricultural         | 1999  | ΙΤ             | ļ | Article | Information         | Sokoine      |
|        | Dane, r.w.  | _              | _          | 3' |                                 | 1999  |                |   | Atticle | 1                   | National     |
|        |             |                |            |    | fibraries in Tanzania: possible |       |                |   |         | Technology for      |              |
|        |             |                |            |    | application of information      | [     |                |   |         | Development         | Agricultural |
|        |             |                |            |    | technology                      |       |                |   |         |                     | University   |
|        | Dulle,F.W.  | Lwehabura,     |            | 58 | Creating a core journal         | 2004  | Agricultural   |   | Article | Library Review      | Sokoine      |
|        |             | M.J.F. & et al |            |    | collection for agricultural     |       | information    |   |         |                     | National     |
|        |             |                |            |    | research in Tanzania : citation |       |                |   |         |                     | Agricultural |
|        |             |                |            |    | analysis and user opinion       |       | ]              |   |         |                     | University   |
|        |             |                |            | 1  | techniques                      |       |                |   |         |                     |              |
|        | Dulle,F.W.  | Mulimila,R.T.  |            | 59 | Brief communication             | 2002  | ΙΤ             |   | Article | Journal of          | Sokoine      |
|        |             | & et al        | ĺ          |    | application of IT for research  |       |                |   |         | Information Science | National     |
|        |             |                |            |    | in Tanzania; feedback from      |       |                |   |         |                     | Agricultural |
|        |             |                |            |    | agricultural researchers        |       |                |   |         |                     | University   |
|        | Lwchabura,  | Matovelo, D.S. |            | 60 | Effective library management    | 2000  | Library        | 1 | Article | New Library World   | Sokoine      |
|        | J.F.        |                |            |    | : issues for managers and       |       | management     |   |         |                     | National     |
|        |             |                |            |    | subordinates                    |       |                |   |         |                     | Agricultural |
|        |             |                | ŀ          |    |                                 | 1     |                |   |         |                     | University   |
|        | Murata, M.  | Busagula,L.S.  |            | 61 | The impact of OCR accuracy      | 2006  | Automated      | 1 | Article | Springer – Verlag   | Sokoine      |
|        |             | P & et al      |            |    | and feature transformation on   |       | classification |   |         |                     | National     |
|        |             |                |            |    | automatic text classification   |       |                |   |         |                     | Agricultural |
|        |             |                |            |    |                                 |       |                |   |         |                     | University   |
| UGANDA | Lutwama,    | Kigongo-       | Makerere   | 62 | A tracer study of the East      | 2004  | Libraries and  | 1 | Article | South African       | Makerere     |
|        | E.          | Bukenya,       | University |    | African School of LIS           |       | education      |   |         | Journal of LIS      | University   |
|        |             | I.M.N.         |            |    | graduates 1995-1999 working     |       | graduates      |   |         |                     |              |
|        |             |                |            |    | in Uganda.                      |       |                |   |         |                     |              |

|  | Omona, W.  | Ikoja        | Makerere   | 63 | Application of information                | 2006 | ICTs         |   | Article | Journal of          | Makerere   |
|--|------------|--------------|------------|----|---|------|--------------|---|---------|---------------------|------------|
|  |            | Odongo, R.   | University |    | and communication                         |      |              |   |         | Librarianship and   | University |
|  |            |              |            |    | technology (ICT) in health                |      |              |   |         | Information Science |            |
|  |            |              |            |    | information access and                    |      |              |   |         |                     |            |
|  |            |              |            |    | dissemination in Uganda.                  |      |              |   |         | :                   |            |
|  | Kakai, M.  | lkoja        | Makerere   | 64 | A study of the information                | 2004 | Information  | 1 | Article | World Libraries     | Makerere   |
|  |            | Odongo, R. & | University |    | seeking behavior of                       |      | Seeking      |   |         |                     | University |
|  |            | et al        |            |    | undergraduates students of                |      | behavior     |   |         |                     |            |
|  |            |              |            |    | Makerere University, Uganda               |      | j            |   |         |                     |            |
|  | Omona, W.  |              |            | 65 | Providing online information              | 2006 | Electronic   | 2 | Article | Information         | Makerere   |
|  |            |              |            |    | services in Makerere                      |      | Information  |   |         | Development         | University |
|  |            |              |            |    | university library                        |      | service      |   |         |                     |            |
|  | Musoke,    |              |            | 66 | Research on women in                      | 1993 | Bibliography | 1 | Book    | The Department of   | Makerere   |
|  | M.G.N.     | ļ            |            |    | Uganda: an annotated                      |      |              |   |         | Women, Kampala      | University |
|  |            | İ            |            |    | bibliography                              | i    |              |   |         |                     |            |
| The second second section of the second seco | Musoke,M.  |              |            | 67 | Information and its value to              | 2001 | Health       | 3 | Article | Health Libraries    | Makerere   |
|  | G.N.       |              |            |    | health workers in rural                   |      | information  |   |         | Review              | University |
|  |            |              |            |    | Uganda : a qualitative                    |      |              |   |         |                     |            |
|  |            |              |            | ĺ  | perspective                               |      |              |   |         |                     |            |
|  | Biringi,P. | Musoke,M.G.  | 1          | 68 | SCECSAL XVI: towards a                    | 2004 | Congresses   |   | Book    | Uganda Library      | Makerere   |
|  |            | N. and et al |            |    | knowledge socity for African              |      |              |   |         | Association         | University |
|  |            |              |            |    | development: papers                       |      |              |   |         |                     |            |
|  |            |              |            |    | presented at the SCECSAL                  |      |              |   |         |                     |            |
|  |            |              |            |    | XVI,5 <sup>th</sup> -9 <sup>th</sup> July |      |              |   |         |                     |            |
|  |            |              |            |    | 2004,Kampala,Uganda                       |      |              |   |         |                     |            |
|  | Kakembo,   |              |            | 69 | Access to health information              | 1998 | Health       | 1 | Article | Health Libraries    | Makerere   |
|  | R.J.K      | }            |            |    | through partnership: problems             |      | information  |   |         | Review              | University |

|         |   |   |   | and benefits |   |  |      |            |
|---------|---|---|---|--------------|---|--|------|------------|
| Somalia |   |   | 0 |              | 0 |  | <br> | Somalia    |
|         | - | ĺ |   |              |   |  |      | National   |
|         | : |   |   |              |   |  | '    | University |
| Sudan   |   |   | 0 |              | 0 |  | <br> | University |
|         |   |   |   |              |   |  |      | of         |
|         |   |   |   |              |   |  |      | Khartoum   |

### DATABASE COLLECTION SPREADSHEET FOR SOUTHERN AFRICA FROM WORLDCAT/ LISTA DATABASE

| COUNTRY  | AUTHOR        | CO-AUTHOR         | CO-<br>AUTHORS<br>AFFILIATIO<br>N | NO | TITLE OF DOCUMENT   | YP   | SUBJECT                 | NOP | DOC<br>TYPE | JOURNAL                        | LIBRARY                      |
|----------|---------------|-------------------|-----------------------------------|----|---|------|-------------------------|-----|-------------|--------------------------------|------------------------------|
| Botswana | Morupisi,N.M. | -                 | -                                 | 1  | Using OPAC at the<br>University of Botswana   | 2006 | OPAC                    |     | Article     | Information Development        | University<br>of<br>Botswana |
|          | NIīla,N.R.    | Darko-Ampem, K.   | -                                 | 2  | Development in academic library consortia from the 1960's through to 2000: a review of the literature | 2002 | Library<br>consortia    |     | Article     | Library<br>Management          | University<br>of<br>Botswana |
|          | Nfila,N.R.    | Dintwe, M.N. & et | -                                 | 3  | Experience of systems migration at the  | 2005 | Libraries<br>automation |     | Article     | Program:<br>electronic library | University<br>of             |

|        |                |                |   |   | university of Botswana     |      |                  |         | and information    | Botswana   |
|--------|----------------|----------------|---|---|----------------------------|------|------------------|---------|--------------------|------------|
|        |                |                | 1 |   | library: a case study      |      | }                |         | systems            |            |
|        | Fidzani,B.T.   |                | - | 4 | Information needs and      | 1998 | Library          | Article | Library Review     | University |
|        |                |                |   | l | information secking        |      | orientation      |         |                    | of         |
|        |                |                |   | } | behavior of graduate       |      |                  |         |                    | Botswana   |
|        |                |                |   |   | students at the university |      |                  |         |                    |            |
|        |                |                |   |   | of Botswana                |      |                  |         |                    |            |
| AJUNTA | Fidzani,B.T.   | -              | - | 5 | The impact of user         | 1998 | User education   | Article | Information        | University |
|        |                |                |   |   | education at the           |      |                  |         | Management         | of         |
|        |                |                |   |   | Botswana library           |      |                  |         |                    | Botswana   |
|        | Fidzani,B.T.   | Oładokun, O.S. |   | 6 | Assessment of library      | 2001 | Library services | Article | Library Review     | University |
|        |                |                |   |   | services as a support      |      |                  |         |                    | of         |
|        | i              |                |   |   | system in the institute of |      |                  |         |                    | Botswana   |
|        | }              |                | } |   | health services(HIS) in    |      |                  |         |                    | -          |
|        |                |                |   |   | Botswana                   |      |                  |         |                    |            |
|        | Esilaba, A.    | *              |   | 7 | HIV/AIDs in Botswana:      | 2003 | HIV/AIDS(Disc    | Book    | National AIDS      | University |
|        |                |                |   |   | an annotated               |      | ase)-Botswana    |         | Coordinating       | of         |
|        |                |                |   |   | bibliography               |      |                  |         | agency ,University | Botswana   |
|        |                |                |   |   |                            |      |                  |         | of Botswana        |            |
|        | Ojedokun,A.    | -              | - | 8 | Transforming the library   | 2003 | Librares for     | Article | Campus- Wide       | University |
|        |                |                |   |   | into a "teaching -         |      | teaching         |         | Information        | of         |
|        |                |                |   |   | learning laboratory" the   |      |                  |         | System             | Botswana   |
|        |                |                |   |   | case of University of      |      | j                |         |                    |            |
|        |                |                |   |   | Botswana library           |      |                  |         |                    |            |
|        | Ojedokun, A.A. | 100            | - | 9 | CD-MARC                    | 1996 | CD-MARC          | Article | The Electronic     | University |
|        |                |                |   |   | bibliographic databases    |      |                  |         | Library: the       | of         |
|        |                |                |   |   | as an alternative to other |      |                  |         | international      | Botswana   |

| p |                  |                    |   |     | T :                      | т     | ·                |          |                 |            |
|---|------------------|--------------------|---|-----|--------------------------|-------|------------------|----------|-----------------|------------|
|   |                  |                    |   |     | information sources:     |       |                  |          | journal for     |            |
|   |                  |                    |   |     | cataloguers' evaluation  | 1     |                  |          | microcomputer,  | İ          |
|   |                  |                    |   |     | of the use of Library of |       |                  |          | and software    |            |
|   |                  |                    |   |     | Congress CD-MARC at      |       |                  | į        | applications in | \          |
|   |                  |                    |   |     | Kenneth Dike Library,    |       | }                | }        | libraries       |            |
|   |                  |                    |   |     | University of Ibadan,    |       |                  |          |                 |            |
|   |                  |                    |   |     | Nigeria                  |       |                  |          |                 |            |
|   | Ojedokun,A.A.    | Kgomotso,H.M.      | - | 10  | The emerging market      | 2005  | Information      | Article  | Education for   | University |
|   |                  |                    |   |     | for information          |       | science-study    |          | Information     | of         |
|   |                  |                    |   |     | professionals in         |       | and teaching     |          |                 | Botswana   |
| [ |                  |                    |   |     | Botswana and the skills  | ]     |                  | )        |                 |            |
|   |                  |                    |   |     | requirement              |       |                  |          |                 |            |
|   | Ojedokun, A.A.   | Lebotse, E.K. & et |   | 11  | Serial selection at the  | 2000  | Serial control   | Article  | Library         | University |
|   | Spannandens      | al                 |   |     | University of Botswana   |       | systems-         |          | Management      | of         |
|   |                  | (""                |   |     | Library                  |       | Automation       |          |                 | Botswana   |
|   | Lumande, A.M.    |                    |   | 12  | Information seeking      | 1999  | Information      | Article  | Information     | University |
|   | TAHIRINGC, A.M., | -                  | 1 | 14- | hehavior among           | 1,,,, | retrieval        | 71111010 | Management      | of         |
|   |                  |                    |   |     | university of Botswana   |       | Terrevar         |          | Withingement    | Botswana   |
|   |                  |                    |   |     | ,                        |       |                  |          |                 | Dotswand   |
|   |                  |                    |   | 1.3 | science faculty          | 2002  |                  | 4.4:4    | 1               | Liningsita |
| 1 | Lumande, A.M.    | Mutshewa, A.       |   | 13  | The Botswana library     | 2002  | Library science  | Article  | Information     | University |
|   |                  |                    |   |     | association; attitude to |       |                  |          | Management      | of         |
|   |                  |                    |   |     | membership among         |       |                  |          |                 | Botswana   |
|   |                  |                    |   |     | librarians in Botswana   |       |                  |          |                 |            |
|   | Kgosiemang,R.T.  | _                  | • | 14  | Libraries and library    | 1999  | Library services | Article  | Information     | University |
|   |                  |                    |   |     | services in Botswana     |       |                  | Ì        | Development     | of         |
|   |                  |                    |   |     |                          |       |                  | }        |                 | Botswana   |
| 1 | 1                | 1                  | 1 | 4   |                          |       |                  |          |                 |            |

|   | Ojedokun A.A.  | Moahi,K.H.     | Dept of       | 15 | Information and            | 2006 | Technologies | Articles | South African      | University |
|---|----------------|----------------|---------------|----|----------------------------|------|--------------|----------|--------------------|------------|
|   |                |                | LIS,Botswana  |    | communication              | Ì    |              | 1        | Journal of LIS     | of         |
|   |                |                |               |    | technology(ict) systems    |      | innovations  |          |                    | Botswana   |
|   |                |                |               |    | in Botswana                |      |              |          |                    |            |
|   | Oladokun, O.S. | -              | -             | 16 | The networked world of     | 2006 | Information  | Article  | Information        | University |
|   |                |                |               |    | lifelong learning and the  |      | literacy     |          | Management         | of         |
|   |                |                |               |    | challenging role of the    | l    |              |          |                    | Botswana   |
|   |                |                |               |    | library                    |      |              |          |                    |            |
|   | Ojedokun,A.A.  | Lumande, E.    | University of | 17 | The integration of         | 2005 | Information  | Articles | African Journal of | University |
|   |                |                | Botswana      |    | information literacy       |      | literacy     |          | Library, Archives  | of         |
|   |                |                |               |    | skills into a credit -     |      |              | Ì        | and Information    | Botswana   |
|   |                |                |               |    | earning programme at       |      |              |          | Science            |            |
|   |                |                |               |    | the university of          |      |              |          |                    |            |
|   |                | ł              |               |    | Botswana                   | {    |              | }        | }                  |            |
|   | Lumande,E.     | Ojedokun, A.A. | University of | 18 | Collecting mapping as      | 2005 | Academic     | Article  | Af □ican Journal   | University |
|   |                |                | Botswana      |    | an evaluation technique    |      | libraries    |          | of                 | of         |
|   |                | }              | library       | }  | for determining            |      |              |          | Library, Archives  | Botswana   |
|   |                |                |               |    | curriculum and             |      |              |          | & Information      |            |
|   |                |                |               |    | collection relationship:   |      |              |          | :                  |            |
|   |                |                |               |    | the university of          |      |              |          |                    |            |
|   |                |                |               |    | Botswana experience        |      |              |          |                    |            |
|   | Ojedokun, A.A. | Lumande,E.     | University of | 19 | Cooperative electronic     | 2005 | Electronic   | Article  | Information        | University |
|   |                | 1              | Botswana      |    | networks of academic       | ]    | networks     | ļ        | Development        | of         |
|   |                |                | library       |    | libraries in Southern      |      |              |          |                    | Botswana   |
|   |                |                |               |    | Africa                     |      |              |          |                    |            |
| , | Ojedokun,A.A.  |                | <del> </del>  | 20 | The evolving               | 2005 | Internet     | Article  | International      | University |
|   |                |                |               |    | sophistication of Internet |      |              |          | Information        | of         |

|   |                   |                 |     |    | abuses in Africa           |      |                   |         | Review               | Botswana   |
|---|-------------------|-----------------|-----|----|----------------------------|------|-------------------|---------|----------------------|------------|
|   | Rao,K.N.          | Mutshewa,A      | 2   | 21 | Enhancing access           | 2000 | Information       | Article | Library Hi tech      | University |
|   |                   |                 |     |    | through electronic         |      | access            |         | Journal              | of         |
|   |                   |                 |     |    | resources: the university  |      |                   |         |                      | Botswana   |
|   |                   |                 |     |    | of Botswana library        | }    |                   |         |                      |            |
|   |                   |                 |     |    | experience                 |      |                   |         |                      |            |
|   | Rao, K.N.         | Lundstrom, T.E. | 2   | 22 | The digitization of past   | 1999 | Academic          | Article | Program:             | University |
|   |                   |                 |     |    | examination papers at      | 1    | libraries         |         | electronic libraries | of         |
|   |                   |                 |     |    | the university of          |      |                   |         | and information      | Botswana   |
|   |                   |                 |     |    | Botswana library           |      |                   |         | system               |            |
|   | Mbaakanyi,D.M.    | Lumande,E.      | 2   | 23 | Subject authority control  | 1993 | Academic          | Article | Electronic libraries | University |
|   |                   |                 |     |    | in a computerized          |      | libraries         |         |                      | of         |
|   |                   |                 |     |    | system: use of             |      |                   |         |                      | Botswana   |
|   |                   |                 |     | ļ  | CDMARC subjects in         | }    |                   | 1       |                      |            |
|   |                   |                 |     | •  | an academic library        |      |                   |         |                      |            |
|   | Nfila, R.B.       |                 | 2   | 24 | Academic library-          | 2004 | Academic          | Article | African Journal of   | University |
|   |                   |                 | 1   |    | supplier relationship :the | }    | libraries         |         | Library ,Archives    | of         |
|   |                   |                 |     |    | experience of supplier     |      |                   |         | and Information      | Botswana   |
|   |                   |                 |     |    | selection and evaluation   |      |                   |         | Science              |            |
|   |                   | 1               |     |    | at the university of       |      |                   |         |                      |            |
|   |                   |                 |     |    | Botswana library           |      |                   |         |                      |            |
|   | Nfila,R.B.        | -               | - 2 | 25 | The Botswana collection    | 2001 | Libraries-special | Article | African Journal of   | University |
|   |                   |                 |     | į  | an evaluative study the    |      | collection        |         | Llibrary ,Archives   | of         |
| i |                   |                 |     |    | university of Botswana     |      |                   |         | and Information      | Botswana   |
|   |                   |                 |     |    | library special            |      |                   |         | Science              |            |
|   |                   |                 |     | 1  | collections                |      |                   |         |                      |            |
|   | Kgosiemang, R. T. | -               | - 2 | 26 | Education and training     | 2005 | cataloguing       | Article | Cataloguing &        | University |
|   |                   | 1               | 1   |    |                            |      |                   |         |                      |            |

|         |                   |                   |   | T  | for cataloguing at the   |      |                 |          | Classification | of         |
|---------|-------------------|-------------------|---|----|--------------------------|------|-----------------|----------|----------------|------------|
|         |                   |                   |   | !  | university of Botswana   |      |                 |          | Quarterly      | Botswana   |
|         |                   |                   |   |    | library: an interview    |      |                 |          |                |            |
|         | Kgosiemang, R. T. | •                 | - | 27 | Role changes:            | 2000 | cataloguing     | Article  | Cataloguing &  | University |
|         |                   |                   |   |    | cataloguing, technical   |      |                 |          | Classification | of         |
|         |                   | ļ                 |   |    | services and subject     |      |                 |          | Quarterly      | Botswana   |
|         |                   |                   |   |    | librarianship at the     |      |                 |          | İ              |            |
|         |                   |                   |   |    | university of Botswana   |      |                 |          |                |            |
|         |                   |                   |   |    | University               |      |                 |          |                |            |
|         | Jain, P.          | •                 | - | 28 | On – the – job training: | 1999 | Library         | Article  | Library        | University |
|         |                   |                   |   |    | a key to human resource  |      | employee        |          | Management     | of         |
|         | j                 |                   |   |    | development              |      |                 |          |                | Botswana   |
|         | Kgosiemang, R.T.  | •                 | - | 29 | Retrospective            | 1999 | IT- Cataloguing | Article  | Cataloguing &  | University |
|         |                   |                   |   |    | conversion: the          |      |                 |          | Classification | of         |
|         |                   |                   |   |    | experience at the        |      |                 | (        | Quarterly      | Botswana   |
|         |                   |                   |   |    | university of Botswana   | :    |                 |          |                |            |
|         |                   |                   |   |    | library                  |      |                 |          |                |            |
|         | Jain, P.          | -                 | _ | 30 | Perceptions on           | 1998 | Library         | Article  | Library        | University |
|         |                   |                   |   |    | empowerment and          |      | employee        | 1        | Management     | of         |
|         |                   |                   |   |    | productivity in academic |      | productivity    |          | Ļ              | Botswana   |
|         |                   | -                 |   |    | and public libraries     |      |                 |          |                |            |
| Lesotho | Moshoeshoe-       | Kimane,I. & et al | - | 31 | Human rights             | 1996 | congresses      | Proceedi | National       | National   |
|         | Chadzingwa, M.    |                   |   |    | documentation in         | ľ    |                 | ngs      | University of  | university |
|         |                   |                   |   |    | Africa: Selected papers  |      |                 |          | Lesotho        | of Lesotho |
|         |                   |                   |   |    | presented at the         |      |                 |          |                |            |
| ļ       |                   |                   |   |    | ISAS/HRI workshop on     |      |                 |          |                |            |
|         |                   |                   |   |    |                          |      |                 |          |                |            |

|  |                |                      |   |    | documentation in Africa<br>held in Maseru 24 <sup>th</sup> -28 <sup>th</sup><br>August 1987 |      |              |          |                   |                          |
|--|----------------|----------------------|---|----|---|------|--------------|----------|-------------------|--------------------------|
|  | Moshoeshoe-    | -                    | - | 32 | Library and information   | 2005 | Book review  | Article  | South African     | National                 |
|  | Chadzingwa, M. |                      |   |    | science text for Africa   |      |              |          | Journal of LIS    | university<br>of Lesotho |
| ***************************************                | Moshoeshoe-    | IFLA & Institutions  |   | 33 | Selected papers of the  | 1998 | Congresses   | proceedi | Boston Spa,       | National                 |
|  | Chadzingwa, M. | section on           |   |    | IFLA Anglophone   |      |              | ngs      | British Library   | University               |
|  |                | Government           |   |    | Africa seminar on   |      |              |          |                   | of Lesotho               |
|  |                | information and      |   |    | government information  |      |              |          |                   |                          |
|  |                | official publication |   |    | and official publications   |      |              |          |                   |                          |
|  |                | & et al              |   |    | held at the University of   |      |              |          |                   |                          |
|  |                |                      |   |    | Zimbabwe in Harare  |      |              |          |                   |                          |
|  |                |                      |   |    | 15th -18th December   |      |              |          |                   |                          |
|  |                |                      |   |    | 1994  |      |              |          |                   |                          |
|  | Moshoeshoe-    |                      |   | 34 | Women in Lesotho:an   | 1996 | Bibliography | Article  | Institute of      | National                 |
|  | Chadzingwa, M. |                      |   |    | annotated bibliography  |      |              |          | Southern African  | University               |
|  |                |                      |   |    |   | 1    |              |          | studies, National | of Lesotho               |
|  |                |                      |   |    |   | ĺ    |              |          | University of     |                          |
|  |                |                      |   |    |   |      |              |          | Lesotho           |                          |
| yaya, a masan masan ka ta ta ayan magan masan da ta ta | Moshoeshoe -   |                      |   | 35 | Libraries and   | 1998 | Congresses   | proceedi | Lesotho Library   | National                 |
|  | Chadzingwa,M   | !                    |   |    | information services in   |      |              | ngs      | Association       | University               |
|  |                |                      | [ |    | the 21st century and  |      |              | <u> </u> | 1                 | of Lesotho               |
|  |                |                      |   |    | beyond: proceedings of  |      |              |          |                   |                          |
|  |                |                      |   |    | the 12th SCECSAL  |      |              |          |                   | }                        |
|  |                |                      |   |    | X11:held in Maseru  |      |              |          |                   |                          |
|  |                |                      | [ |    | Lesotho from 9th  |      |              |          |                   |                          |

|                  |                   |   |    | December 1996             |      |              |          |                    |            |
|------------------|-------------------|---|----|---------------------------|------|--------------|----------|--------------------|------------|
| <br>Moshoeshoe - | IFLA institutions |   | 36 | Anglophone Africa         | 1998 | congresses   | proceedi | Boston Spa         | National   |
| Chadzingwa,M     |                   | : |    | seminar on government     |      |              | ngs      |                    | University |
| j                |                   |   |    | information and official  |      |              |          | British Library    | of Lesotho |
|                  |                   |   |    | publications University   |      |              |          |                    |            |
|                  |                   |   |    | of                        |      |              |          |                    |            |
|                  |                   | ĺ |    | Zimbabwe,Harare,15th-     |      |              |          |                    |            |
|                  |                   | į |    | 18th                      |      |              |          |                    |            |
| <br>Moshoeshoe   | Kimane,I. & et al |   | 37 | Human rights              | 1996 | Human rights | Book     | National           | National   |
| Chadzingwa, M.   |                   |   |    | documentation in Africa   |      |              |          | University of      | University |
|                  |                   |   |    |                           |      |              |          | Lesotho            | of Lesotho |
| <br>Kakoma, A.K. |                   | - | 38 | Reconstruction years are  | 1997 | Curriculum   | Article  | Information        | National   |
|                  |                   |   |    | the best years:           |      |              |          | Management         | University |
|                  |                   |   |    | establishing good school  |      |              |          |                    | of Lesotho |
|                  |                   |   |    | libraries in South Africa | İ    |              | ĺ        | 1                  |            |
| <br>Taole,N.     |                   | - | 39 | Proceedings of the        | 2000 | Congresses   | proceedi | Maseru             | National   |
|                  |                   |   |    | workshop for library      | 1    |              | ngs      |                    | University |
|                  |                   |   |    | assistants on public      |      |              |          |                    | of Lesotho |
|                  |                   |   |    | relations and             | 1    |              | {        |                    |            |
|                  |                   |   |    | communication in          |      |              |          |                    |            |
|                  |                   |   |    | libraries: held at the    | 1    |              |          | 1                  |            |
|                  |                   |   |    | Mmelesi Lodge, Thaba      |      |              |          |                    |            |
|                  |                   |   |    | Bosiu,19th -20th October  | !    |              | 1        |                    |            |
|                  |                   |   |    | 2000                      |      |              |          |                    |            |
| <br>Taole, N.    |                   | - | 40 | Evaluation of OPAC:       | 1997 | OPAC         | Thesis   | University of Cape | National   |
|                  |                   |   |    | user searching behavior   |      |              |          | Town               | University |
|                  | 1                 |   |    | -                         | 1    |              |          | 1                  | of Lesotho |

| behavior of distance learns at the institute of extra mural studies in Lesotho  Malawi Ngwira,M.E. Msiska, A.W.C. 42 Steve Simon Mwiyeriwa 2004 Obituary Article Library | ry and University and University of Male |
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| learns at the institute of extra mural studies in   Lesotho     Article   Librar linfor  | ry and Universimation of Mala            |
| Malawi Ngwira,M.E. Msiska, A.W.C. 42 Steve Simon Mwiyeriwa 2004 Obituary Article Libral linfor   | mation of Mala                           |
| Malawi Ngwira,M.E. Msiska, A.W.C. 42 Steve Simon Mwiyeriwa 2004 Obituary Article Librar linfor   | mation of Mala                           |
| Malawi Ngwira,M.E. Msisku, A.W.C. 42 Steve Simon Mwiyeriwa 2004 Obituary Article Libratinfor   | mation of Mala                           |
| linfor   | mation of Mala                           |
|  |  |
| Updat  | ļ  |
|  | te                                       |
| Chiwaya, M. 43 Chancellor college law 2004 Law libraries Article Intern  | national Univers                         |
| library in Malawi Journ  | al of Legal of Mala                      |
| Infort   | mation.                                  |
|  | Mzuzu                                    |
|  | Univer                                   |
| Ngwira,M.B. Levey, L.A. & et al - 44 CD-ROM for African 1996 CD-ROMs- Book Sub-S   | Saharan Univers                          |
| research needs: Africa Africa  | an Program of Mala                       |
| guidelines for selecting   |  |
| databases  |  |
| Ngwira,M.E. Malawi Library & - 45 MALICO: proceedings 2003 congresses Proceedi MALI  | ICO Univers                              |
| information of the stakeholders ngs  | of Mala                                  |
| consortium & et al workshop on consortium  |  |
| building, Blantyre, 7th  |  |
| May, 2003 and of   |  |
| opportunity knocks: the  |  |
| MALICO consortium  |  |
| building training  | ľ  |
| workshop Lilongwe, 18 <sup>th</sup>  |  |

|                 |                   |                     |          |    | - 19 <sup>th</sup> June 2003        |      |                  |          |                   |            |
|-----------------|-------------------|---------------------|----------|----|-------------------------------------|------|------------------|----------|-------------------|------------|
|                 | Kadzamira,G.A.    | Ngwira,M.E. & at al | •        | 46 | Review of fisheries                 | 2004 | Fish information | Article  | FAO Fisheries     | University |
|                 |                   |                     |          |    | information resources in            |      |                  |          | Report            | of Malawi  |
|                 |                   |                     |          |    | Malawi: case study                  |      |                  |          |                   |            |
| ×. =            | Phiri,D.B.V.      | Msisko,W.C. & et al | <b>-</b> | 47 | Proceedings of the 11th             | 1995 | Congresses       | Proceedi | Malawi Library    | University |
|                 |                   |                     |          |    | standing conference of              | 1    |                  | ngs      | Association       | of Malawi  |
|                 |                   |                     |          |    | Eastern, Central and                |      |                  |          |                   |            |
|                 |                   |                     |          |    | Southern African                    |      |                  |          |                   |            |
|                 |                   |                     |          |    | librarians: SCECSAL                 |      |                  |          |                   |            |
|                 |                   |                     |          |    | Xl,Blantyre,Malawi,25 <sup>th</sup> |      |                  |          |                   |            |
|                 |                   |                     |          |    | -29 <sup>th</sup> July 1994         |      |                  |          | Ì                 |            |
| And All Company | Uta,J.J.          |                     | *        | 48 | Determining the                     | 1994 | Community        | Article  | International     | University |
|                 |                   |                     |          |    | research methodology                |      | library          |          | Journal of        | of Mzuzu   |
|                 |                   | }                   |          | 1  | for a community fibrary             | }    |                  |          | Information and   |            |
|                 |                   |                     |          |    | survey : a Malawi                   |      |                  |          | Library Research  |            |
|                 |                   |                     |          |    | experience                          |      |                  |          |                   |            |
|                 | Uta, J.J.         | Chibambo, R.V. &    | -        | 49 | Third conference of the             | 1997 | Congresses       | proceedi | APLESA            | University |
|                 |                   | et al               |          |    | Association of                      |      |                  | ngs      |                   | of Mzuzu   |
|                 |                   |                     |          |    | parliamentary librarians            |      |                  |          |                   |            |
|                 |                   |                     |          |    | in Eastern and Southern             |      |                  |          |                   |            |
|                 |                   |                     |          |    | Africa(APLESA): 9th -               |      |                  |          |                   |            |
|                 |                   |                     |          |    | 13 the June, 1997,                  |      |                  |          |                   |            |
|                 |                   |                     |          |    | Blantyre, Malawi                    |      |                  |          |                   |            |
|                 | Uta, J.J.         |                     |          | 50 | Directory of Malawi                 | 1990 | Library          | Book     | Zomba, Malawi     | University |
|                 | ,                 |                     |          |    | libraries                           |      | directory        |          |                   | of Mzuzu   |
|                 | Alemna, A.A. & et | Chifwepa, V.        | //       | 51 | The role of libraries in            | 2001 | African-         | Article  | The International | University |
|                 | al                |                     |          |    | the use of African-                 |      | published        |          | Information and   | of Zambia  |

|         |                   |                   |   |    | published journals in<br>African Universities |      | journals        |         | Library Review     |                 |
|---------|-------------------|-------------------|---|----|---|------|-----------------|---------|--------------------|-----------------|
|         | 7 1 12 32         |                   |   | 52 | The use of the Internet                       | 2003 | Intranet and    | Article | African Journal of | University      |
|         | Chifwepa,V.       | -                 | - | 32 | and intranet by teaching                      | 2003 | Internet        | Afficie | Library, Archives  | of Zambia       |
|         |                   |                   | } |    |   |      | Internet        | ļ       | and Information    | OI Zambia       |
|         |                   |                   |   |    | staff of the university of                    |      |                 |         | Science            |                 |
|         |                   | (31.12)           |   |    | Zambia  | 2000 | African-        | Article | African Journal of | 1 la la canalta |
|         | Alemna, A.A. & et | Chifwepa, V.      |   | 53 | African journals: an                          | 2000 |                 | Article |                    | University      |
|         | al                |                   |   |    | evaluation of their use                       |      | published       |         | Library, Archives  | of Zambia       |
|         |                   |                   |   |    | in African Universities                       |      | journals        |         | and Information    |                 |
|         |                   |                   |   |    |   |      |                 |         | Science            |                 |
|         | Chifwepa, V.      | -                 | - | 54 | Library and information                       | 1999 | Library science | Article | Information        | University      |
|         |                   |                   |   |    | science curriculum in                         |      | curriculum      |         | development        | of Zambia       |
|         |                   |                   |   | į  | Zambia  |      |                 |         |                    |                 |
|         | Chifwepa, V.      | -                 | - | 55 | Developing indexing                           | 1998 | Indexing and    | Article | Information        | University      |
|         |                   |                   |   |    | and abstracting tools and                     |      | abstracting     |         | development        | of Zambia       |
|         |                   |                   |   |    | guidelines for Zambia                         |      |                 |         |                    |                 |
|         | Chifwepa, V.      |                   | _ | 56 | Rural information                             | 1997 | Information for | Artilce | Information        | University      |
|         |                   |                   |   |    | provision in Zambia :                         |      | rural           |         | development        | of Zambia       |
|         |                   |                   | 3 |    | problems and prospects                        |      |                 |         |                    |                 |
|         | Chifwepa, V.      | -                 | - | 57 | Agricultural library                          | 1993 | Library         | Article | Information        | University      |
|         | , ,               |                   |   |    | cooperation in Zambia                         |      | cooperation     |         | development        | of Zambia       |
| Namibia | Van Rooi,H        | Synman, R.        |   | 58 | A central analysis of                         | 2006 | Knowledge       | Article | ASLIB              | University      |
|         |                   |                   |   |    | literature regarding                          | }    | management      |         | Proceedings        | of Namibia      |
|         |                   |                   | E |    | knowledge management                          |      |                 | ļ       |                    |                 |
|         |                   |                   |   |    | opportunities                                 |      |                 |         |                    |                 |
|         | Sturges,P.        | Katjihingwa, M. & |   | 59 | Information in the                            | 2005 | Information     | Article | Journal of         | University      |
|         |                   |                   |   |    |   |      |                 |         |                    |                 |

|      |                |                     |    |    | struggle; modeling the     |              |                 |         |                     |            |
|------|----------------|---------------------|----|----|----------------------------|--------------|-----------------|---------|---------------------|------------|
|      |                |                     |    | İ  | case of Namibia (1966-     | }            |                 |         |                     |            |
|      |                |                     | ,  |    | 1990)                      |              |                 |         |                     |            |
|      | Hansmann, L.   | National library of |    | 60 | Namibia national           | 1999         | Namibia-        | Book    | National Library of | University |
|      |                | Namibia             |    |    | bibliography:1993 -        |              | Imprint-        | }       | Namíbía             | of Namibia |
|      |                |                     |    |    | 1995                       |              | Periodicals     |         |                     |            |
|      | Hansmann, L.   | National library of |    | 61 | Namibia national           | 2002         | Namibia-        | Book    | National Library of | University |
|      |                | Namibia             |    |    | bibliography:1996-1998     | 1            | Imprint-        |         | Namibia             | of Namibi  |
|      |                |                     |    |    |                            |              | Periodicals     |         |                     |            |
|      | Morgenstern,R. | -                   |    | 62 | Computerization of         | 1995         | Libraries-      | Article | INSPEL              | University |
|      | -              |                     |    | Ì  | government libraries in    | ļ            | Automation      | }       | 1                   | of Namibia |
|      |                |                     |    | Ì  | Namibia                    | l            |                 |         |                     |            |
|      | Morgenstern,R. | National            |    | 63 | Central register of theses | 1997         | Theses register | Book    | National Archive    | University |
|      | -              | Archives(Namibia)   |    |    | on Namibia January         | }            |                 |         | of                  | of Namibia |
|      |                |                     |    |    | 1997                       | ·            |                 |         |                     |            |
|      |                |                     |    |    |                            |              |                 |         | Namibia             |            |
| .,., | Namhila, E.N.  |                     | •  | 64 | Filling the gaps in the    | 2004         | Archives        | Article | IFLA Journal        | University |
|      |                |                     |    |    | archival record of the     |              |                 |         |                     | of Namibia |
|      |                |                     |    |    | Namibia struggle for       |              |                 |         |                     |            |
|      |                |                     | TE |    | independence               |              |                 |         |                     | }          |
|      | Namhila,E.N.   | -                   | *  | 65 | Perception of visual       | 1995         | Visual learning | Book    | Social sciences     | University |
|      |                |                     |    | ĺ  | materials in rural         | <b> </b><br> |                 |         | Division,Multi-     | of Namibia |
|      |                |                     |    | 1  | Namibia                    |              |                 |         | Displinary          |            |
|      |                |                     |    |    |                            |              |                 | ·       | Research Center     |            |
|      | Mchombu, C.    | -                   |    | 66 | Information needs of       | 2000         | Information     | Article | The International   | University |
|      |                |                     |    |    | women in small             |              | need            |         | Information and     | of Namibia |
|      |                |                     |    |    | businesses in Botswana     |              |                 |         | Library Review      |            |

|              | Visagie,S.  | +              | - | 67 | Scholarly                  | 2006 | Book review    | Article | South African    | University |
|--------------|-------------|----------------|---|----|----------------------------|------|----------------|---------|------------------|------------|
|              |             |                |   |    | communication science      |      |                |         | Journal of LIS   | of Namibia |
|              |             |                |   |    | and engineering research   |      |                |         |                  |            |
|              |             |                |   |    | in higher education        |      |                |         |                  |            |
|              | Ohene, S.A. | Awuku,O.J.     |   | 68 | Productivity in            | 1995 | Library        | Article | Library          | University |
|              |             |                |   |    | university libraries of    |      | administration | İ       | Management       |            |
|              |             |                |   |    | developing countries: a    |      |                |         |                  | Namibia    |
|              |             |                |   |    | Western & Southern         |      |                |         |                  |            |
|              |             |                |   |    | African perspective        |      |                |         |                  |            |
| South Africa | Darch,C.    |                | - | 69 | Tanzania                   | 1996 | Bibliography   | Book    | Clio Press       | University |
|              |             |                |   |    |                            |      |                |         |                  | of Cape    |
|              |             |                |   |    |                            | ļ    |                |         |                  | Town       |
|              | Darch,C.    | N              | - | 70 | Frog voices, whispers,     | 2004 | Library        | Article | The Reference    | University |
|              |             |                |   |    | and silences; problems     |      | collection     |         | Librarian        | of Cape    |
|              |             |                |   |    | and issues in collecting   |      |                |         |                  | Town       |
|              |             |                |   |    | for an African library in  |      | :              |         |                  |            |
|              |             |                |   |    | Africa                     |      |                |         |                  |            |
|              | Darch,C.    | Underwood P.G. |   | 71 | Dirt road or yellow brick  | 1999 | Libraries-     | Article | Library Hi Tech  | University |
|              |             |                |   |    | superhighway?              |      | Automation     |         |                  | of Cape    |
|              |             |                |   |    | Information and            |      |                |         |                  | Town       |
|              |             |                |   |    | communication              |      |                |         |                  |            |
|              |             |                |   |    | technology in academic     |      |                |         |                  |            |
|              |             |                |   |    | libraries in South Africa  |      |                |         |                  |            |
|              | Darch, C.   |                | - | 72 | New rights—New laws:       | 2004 | Legal          | Article | International    | University |
|              |             |                |   |    | legal information in a     |      | information    |         | Journal of Legal | of Cape    |
|              | -           |                |   |    | changing world IALL        |      |                |         | Information: the | Town.      |
|              |             |                |   |    | 22 <sup>nd</sup> course on |      |                |         | Official         |            |

|  |               |                  |   |    | international law         |      |                   |         | Publication of    |            |
|--|---------------|------------------|---|----|---------------------------|------|-------------------|---------|-------------------|------------|
|  |               | 1                |   |    | librarianship             |      |                   |         | International     |            |
|  |               |                  |   |    | proceedings: Digital      |      |                   |         | Association of    |            |
|  |               |                  |   |    | divide or unequal         |      |                   |         | Law Libraries     |            |
|  |               |                  |   |    | exchange; how the         |      |                   |         |                   |            |
|  |               |                  |   |    | Northern intellectual     |      |                   |         |                   |            |
|  |               |                  |   |    | property rights regime    |      |                   |         |                   |            |
|  |               |                  |   |    | threatens the South.      |      |                   |         |                   |            |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Darch,C.      | Rapp,J. & et al  | - | 73 | Academic library          | 1999 | Library           | Article | Library Consortia | University |
|  |               |                  |   |    | consortia in              |      | consortias        |         | management: an    | of Cape    |
|  | <u>.</u>      |                  |   |    | contemporary South        |      |                   |         | international     | Town       |
|  |               |                  |   |    | Africa                    |      |                   |         | journal           |            |
|  | Khangala,B.N. |                  | - | 74 | An investigation into the | 2004 | Knowledge         | Book    | University of     | University |
|  |               |                  | ľ |    | prevalence of             |      | management        | Ì       | Stellenbosch      | of Cape    |
|  |               |                  |   |    | knowledge management      |      |                   |         |                   | Town       |
|  |               |                  |   |    | practices within the      |      |                   |         |                   |            |
|  |               |                  |   |    | libraries of two          |      |                   |         |                   |            |
|  |               |                  |   |    | institutions on the verge |      |                   |         |                   |            |
|  |               |                  |   |    | of a merger :Cape         | 1    |                   |         | 1                 |            |
|  |               |                  |   |    | Technikon and             |      |                   |         |                   |            |
|  |               |                  |   |    | Peninsula Technikon       |      |                   |         |                   |            |
|  | Woolfrey,L.   | Omar, L. & et al |   | 75 | An investigation of       | 1993 | Public libraries- | Article | Library and       | University |
|  |               | ,                |   |    | public libraries in the   |      | South Africa      |         | Information       | of Cape    |
|  |               |                  |   |    | greater Cape area         |      |                   |         | Workers           | Town       |
|  |               |                  |   |    |                           |      |                   |         | Organisation      |            |
|  | Dilshaad,B.   |                  |   | 76 | The Brand Van Zyl Law     | 2005 | Law libraries     | Article | Legal Information | University |
|  |               |                  |   |    |                           |      |                   |         |                   |            |

| The state of the s |             |          |   |    | university of Cape Town   |      |             |         |                     | Town       |
|--|-------------|----------|---|----|---------------------------|------|-------------|---------|---------------------|------------|
|  |             |          |   |    | (UCT)                     |      |             |         |                     |            |
|  | Sales,D.    | -        |   | 77 | Acquisitions and the      | 1995 | Acquisition | Article | Collection          | University |
|  |             |          |   |    | South African             |      |             |         | Development         | of Cape    |
|  |             | İ        |   |    | experience                | ;    |             |         |                     | Town       |
|  | Hoover,J.   | Rapp, J. |   | 78 | Mercantile library forms  | 1997 | Library     | Article | College Research    | University |
|  |             |          |   |    | partnership with          |      | partnership |         | Libraries           | of Cape    |
|  |             |          |   |    | university of Missouri -  |      |             | 1       |                     | Town       |
|  |             |          |   |    | St.Louis                  |      |             |         |                     |            |
|  | Barben T.   | •        |   | 79 | By rock and heath &       | 2003 | Kipling,    | Article | Quarterly Bulletin  | University |
|  |             |          |   | 1  | pine: Rudyard Kilping     | }    | Rudyard     | ·       | of National Library | of Cape    |
|  |             |          |   |    | and the University of     |      |             | İ       | of South Africa     | Town       |
|  |             |          |   |    | Cape Town                 |      |             |         |                     |            |
|  | Lesley,H.   | •        | - | 80 | Architectural records     | 2003 | Academic    | Article | Quarterly Bulletin  | University |
|  |             |          |   |    | and their preservation    |      | libraries   |         | of National Library | of Cape    |
|  |             |          |   |    |                           |      |             |         | of South Africa     | Town       |
| ,  | Amoah, J.K. |          |   | 18 | Environmental factors     | 1998 | Strategic   | Article | University of Cape  | University |
|  |             |          |   |    | influencing the strategic |      |             |         | Town                | of Fort    |
|  |             |          |   |    | planning of academic      |      | planning    |         |                     | Hare.      |
|  | }           |          |   |    | libraries: a comparative  |      |             | 1       | }                   | }          |
|  |             |          |   |    | ease study of the         |      |             |         |                     |            |
|  | :           |          |   |    | universities of Fort Hare |      |             |         |                     |            |
|  |             |          |   | 1  | and Port Elizabeth        |      |             | 1       |                     |            |
|  |             |          |   |    | libraries                 |      |             |         |                     |            |
|  | Amoah, J.K. | -        | • | 82 | Environmental factors     | 1999 | Strategic   | Thesis  | University of Cape  | University |
|  |             | 1        |   |    | influencing the strategic |      | planning-   |         | Town                | of Fort    |
|  |             |          |   |    | planning of academic      |      | academic    |         |                     | Hare.      |

|                    |                   |   |    | libraries: a comparative   |      | libraries   |          |                    |            |
|--------------------|-------------------|---|----|--|------|-------------|----------|--------------------|------------|
|                    |                   |   |    | case study of the  |      |             |          | {                  |            |
|                    |                   |   |    | Universities of Fort   |      |             |          |                    |            |
|                    |                   |   |    | Hare and Port Elizabeth  |      |             |          |                    |            |
|                    | į                 |   |    | libraries  | ĺ    |             |          |                    |            |
| <br>Oosthuizen,S.  | **                | - | 83 | The role and function of   | 2004 | E-mail      | Thesis   | University of Cape | University |
|                    |                   |   |    | e-mail as a form of  |      |             |          | Town               | of Fort    |
|                    |                   |   | Ì  | computer mediated  |      |             |          |                    | Hare.      |
|                    |                   |   |    | communication for  |      |             |          |                    |            |
|                    |                   |   |    | research purposes;   |      |             |          |                    |            |
|                    |                   |   |    | comparative study  |      |             |          |                    |            |
| <br>Namponya,C.R.  | Aina,L.O. & et al |   | 84 | Using micro-computers  | 1991 | Information | Book     | South Africa       | University |
|                    |                   |   |    | for agricultural   |      | storage and |          | Center for         | of Free    |
|                    |                   |   | ł  | information work:  | 1    | retrieval   |          | Cooperation in     | State      |
|                    |                   |   |    | proceedings of a training  |      | systems-    |          | Agricultural       |            |
|                    |                   |   |    | course on micro-   |      | Agriculture |          | Research and       |            |
|                    |                   |   |    | computer databases   |      |             |          | Training           |            |
|                    |                   |   |    | management systems for   |      | ·           |          |                    |            |
|                    |                   |   |    | agricultural librarians  |      |             |          |                    |            |
|                    | }                 |   |    | and documentalists in  |      |             |          | }                  |            |
|                    |                   |   |    | the SADCC region, held   |      |             |          |                    |            |
|                    |                   |   |    | in Lilongwe,Malawi,3 <sup>id</sup>   |      |             |          |                    |            |
|                    |                   |   |    | - 15th December 1990   |      |             | 1        |                    |            |
| <br>Namponya, C.R. | Hailu, M. & et al |   | 85 | SACCAR/IDRC  | 1991 | congresses  | proceedi | Southern African   | University |
|                    |                   |   |    | planning workshop for  |      |             | ngs      | Center for         | of Free    |
|                    |                   |   |    | the establishment of a   | ]    | }           |          | Cooperation in     | State      |
|                    |                   |   |    | Southern African   |      |             |          | Agricultural       |            |
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|          |                  |                 |   |    | Agricultural Information         |      |                   |          | Research &       |            |
|----------|------------------|-----------------|---|----|----------------------------------|------|-------------------|----------|------------------|------------|
|          |                  |                 |   |    | System: $18^{th} - 20^{th}$ June |      |                   |          | Training         |            |
|          |                  |                 |   |    | 1990                             |      |                   |          |                  |            |
|          |                  |                 |   |    | Mbabane,Swaziland                |      |                   |          |                  |            |
| No. 2011 | Namponya, C.R.   | Nkwanyana, C.T. | - | 86 | Agricultural research            | 1990 | Congresses        | proceedi | Southern African | University |
|          | 1                |                 |   |    | priority setting:                |      |                   | ngs      | Center for       | of Free    |
|          |                  |                 |   |    | proceedings of                   |      |                   |          | Cooperation in   | State      |
|          |                  |                 |   |    | SACCAR'S first                   |      |                   | ļ        | Agricultural     |            |
|          |                  |                 |   |    | conference on research           |      |                   |          | Research &       |            |
|          |                  |                 |   |    | priority:                        |      |                   |          | Training         |            |
|          |                  |                 |   |    | Francistown, Botswana, 2         |      |                   |          | _                |            |
|          |                  |                 |   |    | 4th – 28th September             |      |                   |          |                  |            |
|          |                  |                 |   |    | 1990                             |      |                   |          |                  |            |
|          | Namponya, C.R.   | Thiendou, N.    | = | 87 | Agricultural information         | 1990 | Agriculture-      | Book     | Southern African | University |
|          |                  |                 |   |    | services in the SADCC            |      | Africa, Southern- |          | Center for       | of Free    |
|          |                  |                 |   |    | combines: a review               |      | Information       |          | Cooperation in   | State      |
|          |                  |                 |   |    |                                  |      | services          |          | Agricultural     |            |
|          |                  |                 |   |    |                                  |      |                   |          | Research &       |            |
|          |                  |                 | ! |    |                                  |      |                   |          | Training         |            |
|          | Arko- Cobbah, A. |                 | - | 88 | Civil society and good           | 2006 | Public libraries  | Article  | Library review   | University |
|          |                  |                 |   |    | governance challenges            |      |                   |          |                  | of Free    |
|          |                  |                 |   |    | for public libraries in          |      |                   |          |                  | State      |
|          |                  |                 |   |    | South Africa                     |      |                   |          |                  |            |
| alle equ | Raju,J.          | Raju,R.         |   | 89 | Descriptive and subject          | 2006 | Descriptive       | Book     | Chandos          | University |
|          | "                |                 |   |    | cataloguing : a                  | 1    | cataloguing       |          |                  | of Kwa     |
|          |                  |                 |   |    | workbook                         |      |                   |          |                  | Zulu Natal |
|          | Dubbeld,C.E.     |                 |   | 90 | CD-ROM – A visible               | 1991 | CD-ROM            | Article  | Electronic       | University |

|           |        |    | alternative to online     |      |              |         | Libraries           | of Kwa     |
|-----------|--------|----|---------------------------|------|--------------|---------|---------------------|------------|
|           |        | ,  | searching for academic    |      |              |         |                     | Zulu Natal |
|           |        |    | libraries?                |      |              |         |                     |            |
| Dubbeld   | ,C.E.  | 91 | Reflecting apartheid      | 1990 | Bibliography | Article | South African       | University |
|           |        |    | :South African short      |      |              |         | Institute of        | of Kwa     |
|           |        |    | stories in English with   |      | }            |         | International       | Zulu Natal |
|           |        |    | socio- political          |      |              |         | Affairs             | !          |
|           |        |    | themes,1960 – 1987 : a    |      |              |         |                     |            |
|           |        |    | select and annotated      |      |              |         |                     |            |
|           |        |    | bibliography              |      |              |         |                     |            |
| Dubbeld   | I,C,E. | 92 | Richard Rive: a select    | 1990 | Bibliography | Book    | Malherbe Library    | University |
|           |        |    | bibliography              |      |              |         |                     | of Kwa     |
|           |        |    |                           |      |              |         |                     | Zulu Natal |
| Buchana   | ın, N. | 93 | The use and               | 1990 | Government   | Thesis  | University of Natal | University |
|           |        |    | management of             |      | publications |         |                     | of Kwa     |
|           |        |    | government publications   |      |              |         |                     | Zulu Natal |
|           |        |    | in a university library   |      |              |         |                     |            |
| Kuhn,R.   |        | 94 | A guide to the literature | 1994 | Bibliography | Book    | University of Natal | University |
|           |        |    | on Pietermaritzburg and   |      |              |         |                     | of Kwa     |
|           |        |    | surrounds                 |      |              |         |                     | Zulu Natal |
| Darries,I | ?.     | 95 | The impact of the         | 2002 | Internet     | Book    | University of Cape  | Cape       |
|           |        |    | Internet on reference     |      |              |         | Town                | Peninsula  |
|           |        |    | service in higher         |      |              |         |                     | University |
|           |        |    | education libraries in    |      |              |         |                     | of         |
|           |        |    | South Africa              | Ì    |              |         |                     | Technology |
|           |        | 0  |                           |      |              |         |                     | Central    |
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|                   |   |   |     |                        |      |              |         |                    | of Free<br>State |
|-------------------|---|---|-----|------------------------|------|--------------|---------|--------------------|------------------|
| <br>Herbert, K.   | - | - | 96  | Rock art Southern      | 1998 | Bibliography | Book    | Natal Museum       | Durban           |
|                   |   |   |     | Eastern Africa and     |      |              |         | Council            | University       |
|                   | ļ |   |     | Lesotho, 1808 to 1997: |      |              |         |                    | of               |
|                   |   |   |     | an annotated           |      |              |         |                    | Technology       |
|                   |   |   |     | bibliography           |      |              |         |                    |                  |
| <br>Latsky, H.    | - | - | 97  | Research at the R.A.U  | 1995 | Bibliography | Book    | Johannesburg       | University       |
| ,                 |   |   |     | 1967 – 1994: a         |      |              |         | University         |                  |
|                   |   |   |     | bibliography           |      |              |         |                    | Of               |
|                   |   |   |     |                        |      |              |         |                    | Jo'burg          |
| <br>Shokane, J.K. | - |   | 98  | The use of business    | 2003 | Business     | Article | South African      | University       |
|                   |   |   |     | information by small   |      | information  |         |                    | of Limpopo       |
|                   |   |   |     | and medium sized       |      |              |         | Journal of LIS     |                  |
|                   |   |   |     | enterprises in         |      |              |         |                    |                  |
|                   |   |   |     | Acornhock              |      |              |         |                    |                  |
| <br>Chuene, M.M.  |   |   | 99  | The effect of          | 2001 | Libraries -  | Article | African Journal of | University       |
| Cittlene,         |   | Į | 1   | information technology |      | Automation   | }       | Library, Archives  | of Limpopo       |
|                   |   |   |     | on library acquisition |      |              |         | and Information    |                  |
|                   |   |   |     | experiences at the     |      |              |         | Science            |                  |
|                   |   |   |     | University of          |      |              |         |                    | ·                |
|                   |   |   |     | North, South Africa    |      |              |         |                    |                  |
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|   |             |                     | i |         |                           | )    | }           |         |                | Mandela     |
|   |             |                     |   |         |                           |      |             |         |                | Metropolita |
|   |             |                     |   |         |                           |      |             |         |                | n           |
|   |             |                     |   |         |                           |      |             |         |                | University  |
|   | Larney,T.   | •                   | - | 100     | Telematic learning : new  | 1998 | Telematic   | Article | Mousaion       | University  |
|   |             |                     |   |         | demands for libraries     |      | libraries   |         |                | of North -  |
|   |             |                     |   |         |                           |      | ļ           |         |                | West        |
|   | Pienaar, H  | Russell,Mary – Rose | - | 101     | Organisational            | 1999 | Information | Article | Library        | University  |
|   |             | & et al             |   |         | transformation at an      |      | service     |         | Management     | of Pretoria |
|   |             | }                   |   |         | academic information      |      |             |         |                |             |
|   |             |                     |   |         | service                   |      |             |         |                |             |
|   | Pienaar, H  | =                   | - | 102     | Design and development    | 2003 | Libraries-  | Article | Libri          | University  |
|   |             |                     |   |         | of an academic portal     |      | automation  |         |                | of Pretoria |
| and a successful of April 1997 and the second of the contrast | Pienaar,H.  | Penzhorn, C.        | - | 103     | Using the balanced        | 2002 | Strategic   | Article | Libri          | University  |
|   |             |                     |   |         | scorecard to facilitate   |      | management  |         |                | of Pretoria |
|   |             |                     | ) |         | strategic management at   |      |             |         |                |             |
|   |             |                     |   |         | an academic information   |      |             |         |                |             |
|   |             |                     |   |         | service                   |      |             |         |                |             |
|   | Pienaar, H. | -                   |   | 104     | Creative and innovative   | 1995 | Academic    | Article | South African  | University  |
|   |             |                     |   |         | university libraries      |      | libraries   |         | Journal of LIS | of Pretoria |
|   | Pienaar,H.  | -                   | - | 105     | Relationship between      | 1996 | University  | Article | South African  | University  |
|   |             |                     | } |         | creativity and innovation |      | libraries   |         | Journal of LIS | of Pretoria |
|   |             |                     |   |         | in university libraries   |      |             |         |                |             |
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|   |                |              |     |     | climate                  |      |               |          |                    |             |
|   | Piennar,H.     | -            | j - | 106 | Die ontwerp van 'n       | 2001 | Web portal    | Thesis   | University of      | University  |
|   |                |              |     |     | webportal vir akademici  |      |               |          | Pretoria           | of Pretoria |
|   | Pienaar,H.     | -            | -   | 107 | Die Kreatiewe en         | 1997 | Academic      | Thesis   | University of      | University  |
|   |                |              |     |     | innoverende              |      | libraries     |          | Pretoria           | of Pretoria |
|   |                |              |     | ŀ   | universiteitsbiblioteek  |      |               |          |                    |             |
|   | Pienaar,H.     | -            | -   | 108 | Die geintegreerde        | 1990 | Academie      | Thesis   | University of      | University  |
|   |                |              |     |     | persoonlik akademiese    |      | librarians    |          | Pretoria           | of Pretoria |
|   |                |              |     |     | inligtingstelsel 'n      |      |               |          |                    |             |
|   |                |              | }   |     | verkennende studie       | 1    |               | 1        |                    |             |
|   | Egbert ,G.     | Pienaar ,H.  | -   | 109 | A key to the new library | 1999 | libraries     | Book     | Eric               | University  |
|   |                |              |     |     |                          |      |               |          |                    | of Pretoria |
|   | Van der        | Croft, V.F.  | -   | 110 | Running wild, running    | 2006 | Congresses    | Proceedi | Veterinary Science | University  |
|   | Westhuizen, E. |              |     |     | free: capturing,         |      |               | ngs      | Library            | of Pretoria |
|   | 1              |              |     |     | harnessing and           |      |               |          |                    |             |
|   |                |              |     |     | disseminating            | }    |               |          |                    |             |
|   |                |              |     |     | knowledge flow support   |      |               |          |                    |             |
|   |                |              |     |     | of animal health:        |      |               |          |                    |             |
|   |                |              |     |     | proceedings of the 5th   | ]    |               |          |                    |             |
|   |                |              |     | ľ   | international conference | ĺ    |               |          |                    |             |
|   |                |              |     |     | of animal health         |      |               |          |                    |             |
|   |                |              |     |     | information specialists  | ,    |               |          |                    | j           |
|   |                |              |     |     | 4-7 July 2005            |      |               |          |                    |             |
|   | Van der        | Miller ,E.S. | -   | 111 | Electronic               | 1995 | Animal health | Article  | Electronic library | University  |
|   | Westhuizen, E. |              |     |     | communication in         |      | information   |          |                    | of Pretoria |
| ] |                |              |     |     | Africa—the promotion     |      |               |          |                    |             |
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| The second secon | Van der        | 44                  | -       | 112 | Ostrich bibliography                 | 2001 | Bibliography    | Book     | Veterinary      | University  |
|  | Westhuizen, E. |                     |         |     | :update 1995 - 2005                  |      |                 |          | Science Library | of Pretoria |
| N. 1311.   | Van der        | Earle,A. & et al    | -       | 113 | Ostrich bibliography                 | 1993 | Bibliography    | Book     | Veterinary      | University  |
|  | Westhuizen, E. |                     |         |     |                                      |      |                 | [        | Science Library | of Pretoria |
|  | Van der        | Veterinary Science  | <u></u> | 114 | African rhinoceros                   | 1994 | Bibliography    | Book     | Veterinary      | University  |
|  | Westhuizen, E. | Library University  |         |     | bibliography                         |      |                 |          | Science Library | of Pretoria |
|  |                | of Pretoria & et al |         |     |                                      |      |                 |          |                 |             |
| . W. MANNEY CO. T. C. C. C. C. C. C. C. C. C. C. C. C. C.  | Van der        | Veterinary Science  | -       | 115 | Ostrich bibliography:                | 1995 | Bibliography    | Book     | Veterinary      | University  |
|  | Westhuizen, E. | Library University  |         |     | 1994 update                          |      |                 |          | Science Library | of Pretoria |
|  |                | of Pretoria & et al |         |     |                                      | ĺ    |                 | 1        |                 |             |
|  | Van der        | Veterinary Science  | -       | 116 | Proceedings of the 1st               | 1997 | Congresses      | proceedi | Veterinary      | University  |
|  | Westhnizen, E. | Library University  |         |     | conference of African                |      |                 | ngs      | Science Library | of Pretoria |
|  |                | of Pretoria & et al |         |     | animal health                        |      |                 |          |                 |             |
|  |                |                     |         |     | information workers: 3 <sup>rd</sup> |      |                 |          |                 |             |
|  |                |                     |         |     | - 16 <sup>th</sup> July              |      |                 |          | ļ               |             |
|  |                |                     |         |     | 1995,University of                   |      |                 |          | 1               | }           |
|  |                |                     |         |     | Pretoria                             |      |                 |          |                 |             |
|  |                |                     |         |     | Onderstepoort, South                 |      |                 |          |                 |             |
|  |                |                     |         |     | Africa: Animal health                |      |                 |          |                 |             |
|  |                |                     |         | ļ   | information for Africa               |      |                 |          |                 |             |
| , , v =================================  | Marais,H.      | Coetzee, H.S.       |         | 117 | Copyright on videos:                 | 1995 | Video copyright | Article  | South African   | University  |
|  |                |                     |         |     | some problems                        |      |                 |          | Journal of LIS  | of South    |
|  |                |                     |         |     | encountered by                       |      |                 |          |                 | Africa      |
|  |                |                     |         |     | librarians of educational            |      |                 |          |                 |             |
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|  |                   |               |   |     | institutions             |  |             |         |               |             |
|--|-------------------|---------------|---|-----|--------------------------|--|-------------|---------|---------------|-------------|
|  | Marais,11.        | -             | - | 118 | Authority control in an  | 2004   | NACO        | Thesis  | UNISA         | University  |
|  |                   |               |   |     | academic library         |  |             |         |               | of South    |
|  |                   |               |   |     | consortium using a       |  | (Program)   |         |               | Africa      |
|  |                   |               |   |     | union catalogue          | 1  |             |         |               |             |
|  |                   |               |   |     | maintained by central    |  |             |         |               |             |
|  |                   |               |   |     | office for authority     |  |             |         |               |             |
|  |                   |               |   |     | control                  |  |             |         |               |             |
|  | Marais, II.       | -             | • | 119 | Videomaterials in        | 1993   | Cataloguing | Book    | University of | University  |
|  |                   |               |   |     | biblioteke van           |  |             |         | Pretoria      | of South    |
|  |                   |               |   |     | onderwysiringtings       |  |             |         |               | Africa      |
|  | Van der Merwe, I. | Van Eeden, W. | - | 120 | Remote electronic        | 1998   | Electronic  | Book    | For Full Text | University  |
|  |                   |               |   |     | resources and the OPAC   |  | resource    | l l     |               | of South    |
|  |                   |               |   |     | : illustrated by the     | ļ  |             |         |               | Africa      |
|  |                   |               |   |     | UNISA library            |  |             |         |               |             |
|  |                   |               |   |     | experience               |  |             |         |               |             |
| manager for the few solves manager (\$1000 for the few | Tise,E.R.         | •             | - | 121 | Strategies by LIASA to   | 2004   | LIASA       | Article | Information   | University  |
|  |                   |               |   |     | develop library science  |  |             |         | Management    | of          |
|  |                   |               |   |     | and the profession in    |  |             |         |               | Stellenbose |
| j  |                   |               |   |     | South Africa             |  |             |         |               | h           |
|  | Sieberhagen, E.A. | -             | - | 122 | The design and           | 2005   | Academic    | Thesis  | UNISA         | Tshwane     |
|  |                   |               |   |     | development of a digital |  | libraries   |         |               | University  |
|  |                   |               |   |     | information program for  | 1  |             |         |               | of          |
|  |                   |               |   |     | an academic library      |  |             |         |               | Technology  |
| a  |                   |               |   | 0   |                          | <del>                                     </del> |             |         |               | University  |
|  |                   |               |   |     |                          |  |             |         |               | of Rhodes   |
|  | Mahlangu,N.       | _             | - | 123 | Barrier to information   | 2001   | Information | Thesis  |               | Vaal        |

|   |            |   |          |     | access and provision in   |       | access            |         |                | University |
|---|------------|---|----------|-----|---------------------------|-------|-------------------|---------|----------------|------------|
| ļ |            |   | j        | }   | academic libraries with   | ļ     |                   |         |                | of         |
|   |            |   |          |     | special focus on the      |       |                   |         |                | Technology |
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|   |            |   |          |     |                           |       |                   |         |                | of Venda   |
|   | Muswazi,P. | - | -        | 124 | The Internet in           | 2000  | Internet          | Article | Information    | University |
|   | )          |   |          | }   | Swaziland; services       | )     |                   |         | Outlook        | of         |
| 1 |            |   |          |     | under transformation      | 1     |                   |         |                | Witwatersr |
|   |            |   |          |     |                           |       |                   |         |                | and        |
|   | Muswazi,P. | _ | <b> </b> | 125 | Illusion of Internet grey | 2001  | Grey literature   | Article | INSPEL         | University |
|   |            |   |          |     | literature boon: for      |       |                   |         |                | of         |
|   |            |   |          |     | developing nations:       | ļ     |                   |         |                | Witwatersr |
|   |            |   |          |     |                           | j     | j                 |         |                | and        |
|   | Muswazi,P. | - | -        | 126 | HIV/AlDA information      | 2000  | AID(Acquired      | Article | Library Review | University |
|   |            |   |          |     | resources and services: a |       | immune            |         |                | of         |
|   |            |   |          |     | Swaziland case study      |       | deficiency        |         |                | Witwatersr |
|   |            |   |          |     |                           |       | syndrome)         |         |                | and        |
|   | Muswazi,P. | - | -        | 127 | The practicality of the   | 1998  | Union catalogue   | Article | Libri          | University |
|   |            |   |          |     | Swaziland union           |       |                   |         |                | of         |
|   |            | } | {        |     | catalogue :a              | {     |                   |         |                | Witwatersr |
|   |            |   |          |     | retrospective study       |       |                   |         |                | and        |
|   | Muswazi,P. | - | -        | 128 | Distance education        | 2003  | Digital libraries | Article | Information    | University |
|   |            |   |          |     | library services in       |       |                   |         | Management     | of         |
|   |            |   |          |     | Swaziland                 |       |                   |         |                | Witwatersr |
|   |            |   |          |     |                           |       |                   |         |                | and        |
|   | Muswazi,P. | - | -        | 129 | Freedom of information:   | 1999  | Censorship        | Article | IFLA journal   | University |

|             |                      |   |     | in search of a niche for<br>the library profession in<br>Swaziland   |      |                                 |         |  | of<br>Witwatersr<br>and  |
|-------------|----------------------|---|-----|--|------|---------------------------------|---------|--|--------------------------|
| Muswazi, I  | -                    | - | 130 | Swaziana; an assessment  | 2000 | Bibliography                    | Article | African Research and Documentation                 | University of Witwatersr |
| Muswazi,P   |                      | - | 131 | Transforming the Swaziland National Bibliography (SNB): visions of currency, access, coverage and quality          | 2001 | Swaziland National Bibliography | Article | For Full Text                                      | University of Witwatersr |
| Muswazi,P   |                      | - | 132 | Library and information<br>Services(LIS) strategic<br>planning in a developing<br>country                          | 2003 | Library strategic planning      | Article | Science and<br>Technology<br>Libraries             | University of Witwatersr |
| Ubogu,F.N   | . Kekana, A. & et al | - | 133 | Library subject portals:<br>an investigation of<br>possibilities for the<br>university of<br>Witwatersrand library | 2006 | Libraries-<br>Automation        | Article | Program :electronic library and information system | University of Witwatersr |
| Ubogu,F.    | -                    | - | 134 | Spreading the ETD gospel: a southern African perspective   | 2001 | ETD                             | Article | The International Information and Library Review   | University of Witwatersr |
| Nicholson,I | D.R                  |   | 135 | Intellectual property:   | 2006 | Copyright                       | Article | IFLA Journal                                       | University               |

|      |                |                     |   |     | benefit a burden for     | }    |                    |         |                  | of          |
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|      |                |                     |   |     | Africa?                  |      |                    |         |                  | Witwatersr  |
|      |                |                     |   |     |                          |      |                    |         |                  | and         |
| .,., | Nicholson,D.R. | _                   | - | 136 | The "information         | 2002 | Libraries-         | Article | IFLA Journal     | University  |
|      |                |                     |   |     | starved"is there any     |      | Automation         |         |                  | of          |
|      |                |                     |   |     | hope of reaching the     |      |                    | ļ       |                  | Witwatersr  |
|      |                |                     | : | }   | "information super       |      |                    |         |                  | and         |
| E    |                |                     |   |     | highway"?                |      |                    | ļ       |                  |             |
|      | Myers, G.      | Saunders,S. & et al | - | 137 | Beyond the virtual       | 2002 | Libraries-         | Article | The Electronic   | University  |
|      |                |                     |   |     | library: electronic      |      | Automation         |         | Library          | of          |
|      |                |                     |   |     | curriculum web           |      |                    |         |                  | Witwatersr  |
|      |                |                     |   |     | resources                |      |                    |         |                  | and         |
|      | Myers,G.       |                     | • | 138 | Robin hood in            | 1991 | Inter library loan | Article | Interlending and | University  |
|      |                |                     |   |     | interlending; charging   |      |                    |         | Document Supply  | of          |
|      |                |                     |   |     | the information rich to  |      |                    |         |                  | Witwatersr  |
|      |                |                     |   |     | help the information     |      |                    |         |                  | and         |
|      |                |                     |   |     | poor                     |      |                    |         |                  |             |
|      | Myers,G.       | •                   | - | 139 | Evidence-based           | 2002 | Evidence –         | Article | Rand Afrikaans   | University  |
|      |                |                     |   |     | medicine as a web -      |      | based Medicine     |         | University       | of          |
|      |                |                     |   |     | based information        |      |                    |         |                  | Witwatersr  |
|      |                |                     |   |     | seeking model for health |      |                    |         |                  | and         |
|      |                |                     |   |     | care practitioners       |      |                    |         |                  |             |
|      | Mgobozi,M.N.   | -                   |   | 140 | The use of electronic    | 2002 | Electronic         | Thesis  | University of    | University  |
|      |                |                     |   |     | journals for the         |      | journal            |         | Zululand         | of Zululand |
|      |                |                     |   |     | dissemination of         | ]    |                    |         |                  |             |
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|      |                |                     |   |     | the University of Natal  |      |                    |         |                  |             |

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| Walter,C.      | -                    | -                                  | 141                    | The reference collection:                      | 2006  | Book review   |                     |  | University   |
|                |                      |                                    |                        | from the shelf to the                          |   |   | review              | Journal of LJS   | of Cape  |
|                |                      |                                    |                        | web  |   |   |                     |  | Town   |
| Barben,T.      | -                    | -                                  | 142                    | The strategic                                  | 2006  | Book review   | Book                | South African  | University   |
|                |                      |                                    | }                      | stewardship of cultural                        | }   | }   | review              | Journal of LIS   | of Cape  |
|                |                      |                                    |                        | resources: to preserve                         |   |   | ľ                   |  | Town   |
|                |                      |                                    |                        | and protect. Papers from                       |   |   |                     |  |  |
|                |                      |                                    |                        | the library of congress                        |   |   |                     |  |  |
|                |                      |                                    |                        | symposium to reserve                           |   |   |                     |  |  |
|                |                      |                                    |                        | and protect: the strategic                     |   |   |                     |  |  |
|                |                      |                                    |                        | stewardship of cultural                        |   |   |                     |  |  |
|                |                      |                                    |                        | resources                                      |   |   |                     |  |  |
| Thomson 1.     |                      | -                                  | 143                    | It's time for reward                           | 2006  | Libraries award   | Article             | Cape librarian   | University   |
|                |                      |                                    |                        |  |   |   |                     |  | of Cape  |
|                |                      |                                    |                        |  |   |   |                     |  | Town   |
| Caroline, D.E. | -                    |                                    | 144                    | Electronic journal                             | 2006  | Book review   | Book                | South African  | University   |
| <u> </u>       |                      |                                    | ]                      | management systems:                            |   |   | review              | Journal of LIS   | of Cape  |
|                |                      |                                    |                        | experiences from the                           |   |   |                     |  | Town   |
|                |                      |                                    |                        | field  |   |   |                     |  |  |
| Caroline D.E.  |                      | -                                  | 145                    | Serials in the park:                           | 2005  | Book review   | Book                | South African  | University   |
| , , , , , , ,  |                      |                                    |                        | proceedings of the North                       |   |   | review              | Journal of LIS   | of Cape  |
|                |                      |                                    |                        | · ·  |   |   |                     |  | Town   |
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|                |                      |                                    |                        | 29,2003,Portland State                         |   |   |                     |  |  |
|                | Barben,T. Thomson 1. | Barben,T  Thomson I  Caroline, D.B | Barben,T Caroline, D.E | Barben,T 142  Thomson 1 143  Caroline, D.E 144 | Walter, C 141 The reference collection: from the shelf to the web  Barben, T 142 The strategic stewardship of cultural resources: to preserve and protect. Papers from the library of congress symposium to reserve and protect: the strategic stewardship of cultural resources  Thomson I 143 It's time for reward  Caroline, D.E 144 Electronic journal management systems: experiences from the field  Caroline, D.E 145 Seriats in the park: proceedings of the North American serials interest group, inc. 18 <sup>th</sup> annual conference, June 26- | Walter, C.  - 141 The reference collection: from the shelf to the web  Barben, T.  - 142 The strategic stewardship of cultural resources: to preserve and protect. Papers from the library of congress symposium to reserve and protect: the strategic stewardship of cultural resources:  Thomson I.  - 143 It's time for reward 2006  Caroline, D.E.  - 144 Electronic journal management systems: experiences from the field  Caroline, D.E.  - 145 Serials in the park: proceedings of the North American serials interest group, inc. 18th annual conference, June 26- | Zutuland   Zutuland | Zululand   Walter, C.   -   141   The reference collection: from the shelf to the web   Book review   Book review   Barben, T.   -   142   The strategic   2006   Book review   Book r | Walter, C 141 The reference collection: from the shelf to the web web web web and protect. Papers from the library of congress symposium to reserve and protect: the strategic stewardship of cultural resources: a preserve and protect: the strategic stewardship of cultural resources.  Thomson 1 143 It's time for reward 2006 Libraries award Article Cape librarian was greater from the field stewardship of cultural resources.  Curoline, D.E 144 Electronic journal management systems: experiences from the field services from the field services from the field award award conference, June 26- |

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| ************************************** | Barratt,A.   |                  | = | 152 | New rights - News          | 2004 | Legal literature | Article  | International      | University |
|  |              |                  |   |     | laws: South African        | [    |                  |          | Journal of Legal   | of Cape    |
|  |              |                  |   |     | legal literature in a time | 1    |                  |          | Information        | Town       |
|  |              |                  |   |     | of transition              |      |                  |          |                    |            |
|  | Darch, C.    |                  |   | 153 | Digital divide or          | 2004 | Intellectual     | Article  | International      | University |
|  |              |                  |   |     | unequal exchange? How      |      | property         |          | Journal of Legal   | of Cape    |
|  |              |                  |   |     | the Northern intellectual  |      |                  |          | Information        | Town       |
|  |              |                  |   | Ì   | property rights regime     |      |                  | İ        |                    |            |
|  |              |                  |   |     | threatens the South        |      |                  |          |                    |            |
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|  |              |                  |   |     |                            |      |                  |          |                    | Hare       |
|  | Rolf, P.     | Nikki,C, & et al | - | 154 | A first in Afrika:         | 2004 | Libraries        | Article  | Electronic Journal | Cape       |
|  |              |                  |   | l   | implementation of          |      | automation       |          | of Academic and    | Peninsula  |
|  |              |                  |   |     | Metalib and SFX at the     |      |                  |          | Special            | University |
|  |              |                  |   |     | Cape Technikon library     |      |                  |          | Librarianship      | of         |
|  |              |                  |   | 1   |                            | 1    |                  |          |                    | Technology |
| ,                                      | Muller, N.J. | -                | - | 155 | Mergers and managers:      | 2006 | Libraries-       | Article  | South African      | Durban     |
|  |              |                  |   |     | what's needed for both     |      | Mergers          |          | Journal of LIS     | University |
|  |              |                  |   |     | to work? Reflections on    | }    |                  | l l      |                    | of         |
|  |              |                  |   |     | a merger of two higher     | ļ    |                  |          |                    | Technology |
|  |              |                  |   |     | education libraries in     |      |                  |          |                    |            |
|  |              |                  | ł |     | Kwa Zulu Natal             |      |                  |          |                    |            |
|  | Thomas ,D.   | -                | - | 156 | Effective approaches for   | 2004 | Records          | Articles | Journal of the     | Durban     |
|  |              |                  |   |     | managing electronic        |      | management       |          | Society of         | University |
|  |              |                  |   | - } | records and                | 1    |                  | 1        | Archivists         | of         |

|    |                |                   |               | ]   | archives/from digital     |          |                   |         |                 | Technology |
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|    |                |                   |               |     | volatility to digital     |          |                   |         |                 |            |
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|    |                |                   |               |     | recommendation of the     |          |                   |         |                 |            |
| l: |                |                   |               |     | digital preservation test |          |                   | ĺ       |                 |            |
|    |                |                   |               |     | bed on the long term      |          |                   |         |                 |            |
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|    |                |                   |               |     | on,(BOOK)                 |          |                   |         | 1               |            |
|    | Arko-Cobbah,A. | -                 |               | 157 | The role of libraries in  | 2004     | Educational       | Article | International   | University |
|    |                |                   |               |     | student - centered        |          | technology        | İ       | Information and | of Free    |
|    |                |                   |               |     | learning: the case of     |          |                   |         | Library Review  | State      |
|    |                |                   |               | ĺ   | students from the         | 1        |                   | 1       |                 |            |
|    |                |                   |               |     | disadvantaged             |          |                   |         |                 |            |
|    |                |                   |               |     | communities in South      |          |                   |         |                 |            |
|    |                |                   |               |     | Africa.                   |          |                   |         |                 |            |
|    | Sander,H.      | Van Vuren A. & et | University of | 158 | Library live: embedding   | 2006     | Digital libraries | Article | IATUL annual    | University |
|    |                | al                | Johannesburg  |     | and contextualizing       |          |                   |         | conference      | of         |
|    |                |                   |               |     | information resources in  |          |                   |         | proceedings     | Johannesbu |
|    |                |                   |               |     | the virtual learning      |          |                   |         |                 | rg         |
|    |                |                   |               |     | environment               |          |                   | !       | 1               |            |
|    | Bopape, S.     | -                 | -             | 159 | Management                | 2005     | GAELIC region     | Article | South African   | University |
|    | ( ) mjimjiai m |                   |               |     | development needs of      |          |                   | 1       | Journal of LIS  | of Limpopo |
|    |                |                   |               |     | library managers          |          |                   |         |                 |            |
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|         |            |               | -        |     |                           | ļ        |                  |         |                    | West        |
| - 1     | Hammes,M.  | <u>.</u>      | _        | 160 | Beyond: scholarly         | 2001     | Communication    | Article | Mousaion           | University  |
|         |            |               |          |     | communication in the      | ļ        |                  |         |                    | of Pretoria |
|         |            |               |          |     | knowledge era             |          |                  |         |                    |             |
|         | Pienaar,H. | Conradie,H.   | Opticode | 161 | Design and development    | 2001     | Web portal       | Article | Mousaion           | University  |
|         |            |               | Software |     | of a portal for academic  |          |                  |         |                    | of Pretoria |
|         |            |               |          |     | at University of Pretoria |          |                  |         |                    |             |
|         | Pienaar,H. | **            | -        | 162 | Kreatiew en               | 1995     | Academic         | Article | South African      | University  |
|         |            |               |          |     | innoverende               |          | libraries-aims & |         | Journal of LIS     | of Pretoria |
|         |            |               |          |     | universiteitsbiblioteke   |          | objectives       |         |                    |             |
|         | Retief,E.  | Terblanche,F. | -        | 163 | The role of inventory     | 2006     | Academic         | Article | Mousaion           | UNISA       |
|         |            |               |          |     | control in the service    |          | libraries        |         |                    |             |
|         | la la      |               |          |     | quality of an academic    |          | ]                |         |                    |             |
|         |            |               |          |     | library in regard to      |          |                  |         |                    |             |
|         |            |               |          | -   | library material access   |          |                  |         |                    |             |
|         | Tise,E.    | Lor, P.       | -        | 164 | Renaissance of a library  | 2001     | National         | Article | Quarterly Bulletin | Stellenbose |
|         |            |               |          |     |                           |          | libraries        |         | of the National    | h           |
|         |            |               |          |     |                           |          |                  |         | Library of South   | University  |
|         |            |               |          |     |                           |          |                  |         | Africa             |             |

|               | Engelbrecht,J. | •         | - | 165 | The changing of the      | 2004 | Electronic       | Article | IATUL annual   | Stellenbosc |
|---------------|----------------|-----------|---|-----|--------------------------|------|------------------|---------|----------------|-------------|
|               |                |           |   |     | guard, or : moving from  |      | journal          |         | conference     | h           |
|               | ļ              |           |   | }   | print to "E" with a new  | }    |                  |         | proceedings    | University  |
|               |                |           |   |     | financial model          |      |                  |         |                |             |
|               | Swanepoel, A.  | •         | - | 166 | A technikon library's    | 2006 | Libraries        | Article | Mousaion       | Tshwane     |
|               |                |           |   |     | struggle for identity; a |      |                  |         |                | University  |
|               |                |           |   |     | historical overview      | }    |                  |         |                |             |
|               |                |           |   |     | 1979- 2003               |      |                  |         |                |             |
|               | Swanepoel,A.   |           | - | 167 | Involving university     | 2006 | Libraries and    | Article | IATUL annual   | Tshwane     |
|               |                |           |   |     | library staff in ongoing |      | education        |         | conference     | University  |
|               |                |           |   |     | research                 | ļ    |                  |         | proceedings    |             |
|               | Swanepoel, A.  | -         | - | 168 | Lessons learned from     | 2005 | Libraries merger | Article | South African  | Tshwane     |
|               | 1              |           | - | •   | library mergers at       | ]    |                  |         | Journal of LIS | University  |
|               |                |           | Ì |     | colleges of higher       |      |                  |         |                |             |
|               | }              |           | ) | ļ   | education in Flanders    | ]    |                  |         |                |             |
| - /····· #1/4 | Swanepoel,A.   |           | - | 169 | Library merger in higher | 2004 | Libraries        | Article | Mousaion       | Tshwane     |
|               |                |           | 1 |     | education institutions:  | ļ    |                  |         |                | University  |
|               |                |           |   |     | different theories,      |      |                  |         |                |             |
|               | ļ              |           | 1 |     | beliefs & practices      | j    |                  |         |                |             |
|               | Swanepoel, A.  |           | - | 170 | Concern and expectation  | 2004 | Library merger   | Article | IATUL annual   | Tshwane     |
|               |                |           |   |     | of library staff before  | ļ    |                  |         | conference     | University  |
|               |                |           |   |     | and after merger         |      |                  |         | proceedings    |             |
|               | Gwenda, T.     | Fourie M. | - | 171 | International            | 2006 | Academic         | Article | Journal of     | University  |
|               |                |           |   |     | perspectivesacademic     |      | libraries        |         | Academic       | of Rhodes   |
|               |                |           |   |     | library consortia in     |      |                  |         | Librarianship  |             |
|               |                |           |   |     | South Africa: where we   |      |                  |         |                |             |
|               |                |           | 1 | )   | come from and where      | ]    |                  |         |                |             |
|               | 1              | 1         | 1 | 1   | 1                        | I    | <u> </u>         |         |                |             |

|                |            |    |   |     | we are heading       |      |                  |         |                |            |
|----------------|------------|----|---|-----|----------------------|------|------------------|---------|----------------|------------|
|                | Gwenda, T. |    |   | 172 | News                 | 2003 | Libraries        | Article | IFLA Journal   | University |
|                |            |    |   |     |                      |      |                  |         |                | of Rhodes  |
|                | Gwenda, T. |    |   | 173 | Building bridges:    | 2002 | Library science- | Article | IFLA Journal   | University |
|                |            | T. | [ |     | LIASA and leadership |      | socities         |         |                | of Rhodes  |
|                |            |    |   |     | development in South |      |                  |         |                |            |
|                |            |    | Ì |     | Africa               |      |                  |         |                |            |
| 11070-0111-557 | Gwenda, T. |    |   | 174 | The information      | 2000 | Information      | Article | South African  | University |
|                |            |    | 1 |     | specialist and the   |      | specialist       |         | Journal of LIS | of Rhodes  |
|                |            |    |   |     | challenges of the    |      |                  |         |                |            |
|                |            |    |   |     | Internet: a marathon |      |                  |         |                |            |
|                |            |    |   |     | with no finish       |      |                  |         |                |            |
|                | Gwenda, T. |    |   | 175 | Review               | 1995 | Book Reviev      | Book    | South African  | University |
|                |            |    |   |     |                      |      |                  | review  | Journal of LIS | of Rhodes  |
|                |            |    |   | 0   |                      |      |                  |         |                | University |
|                |            |    |   |     |                      |      |                  |         |                | of Vaal    |
|                |            |    |   | 0   |                      |      |                  |         |                | University |
|                |            |    |   |     |                      |      |                  |         |                | of Venda   |
|                |            |    |   | 0   |                      |      |                  |         |                | Walter     |
|                |            |    |   |     |                      |      |                  |         |                | Sisulu     |
|                |            |    | } |     |                      |      |                  |         |                | university |
|                |            |    |   |     |                      |      |                  |         |                | of Science |
|                |            |    |   |     |                      |      |                  |         |                | and        |
|                |            |    |   |     |                      |      |                  |         |                | Technology |
|                |            |    |   | 0   |                      |      |                  |         |                | University |
|                |            |    |   |     |                      |      |                  |         |                | of Western |
|                |            |    |   |     |                      |      |                  |         |                | Cape       |

|            |              |            |                        | 0   |   |      |                                       |         |   | Central University of Technology |
|------------|--------------|------------|------------------------|-----|---|------|---------------------------------------|---------|---|----------------------------------|
|            | Muswazi,P.   | -          | -                      | 176 | Continuing education, libraries & the Internet(CELI) project  | 2004 | Internet<br>education                 | Article | Digital Libraries  Magazine   | University of Witwatersr         |
|            | Muswazi,P.   | -          |                        | 177 | The integration of print and electronic sources: a case study of the University of Swaziland library                                    | 2005 | Education                             | Article | African Journal of<br>Library, Archives<br>and Information<br>Science | University of Witwatersr         |
| i          | Jiyane, V.   | Ocholia,D. | University of Zululand | 178 | An exploratory study of information availability an exploitation by the rural women of Melmoth, Kwa Zulu Natal                          | 2004 | Information<br>science-Rural<br>women | Article | South African Journal of LIS  | University of Zululand           |
|            | Mgobozi,M.N. | Ocholla,D. | University of Zaluland | 179 | The use of electronic journals for the dissemination of scholarly information by the University of Natal and the University of Zululand | 2002 | Electronic                            | Article | South African Journal of LIS  | University of Zululand           |
| Kingdom of | Anbu ,K.J.P. | *          | •                      | 180 | Towards a vertical  | 2006 | Web portal                            | Article | Information   | University                       |

| Swaziland                                      |                |             |               |     | portal for open access  |      |                |         | Studies           | of          |
|--|----------------|-------------|---------------|-----|-------------------------|------|----------------|---------|-------------------|-------------|
|  |                |             |               |     | scholarly publications  |      |                |         |                   | Swaziland   |
|  | Anbu, K. J.P   | •           | -             | 181 | Circulation statistics: | 2006 | Libraries -    | Article | Information       | University  |
|  |                |             |               |     | deriving information    |      | circulation    |         | Studies           | of          |
|  |                |             |               |     | from numbers using      |      | analysis       |         |                   | Swaziland   |
|  |                |             |               |     | CD/ISIS circulation     |      |                |         |                   |             |
|  |                |             |               |     | photo types             |      |                |         |                   |             |
|  | Reuben,G.P.    | Anbu,J.P.   |               | 182 | CDS/ISIS: an overview   | 1998 | Data structure | Article | KeproBulletin     | University  |
|  |                |             |               |     |                         |      |                | 1       |                   | of          |
|  |                |             |               |     |                         |      |                |         |                   | Swaziland   |
| The second second second second                | Yumba,D.       | •           | •             | 183 | Whither Africa in the   | 2002 | Information    | Article | Information       | University  |
|  |                |             |               |     | information age         |      | structures     |         | Development       | of          |
|  |                |             |               |     |                         |      |                |         |                   | Swaziland   |
|  | Ngcobo,Z.G.    | -           | -             | 184 | An annotated            | 1993 | Bibliography   | Book    | The Project       | University  |
|  |                |             |               |     | bibliography on Women   |      |                |         |                   | of          |
|  |                |             |               |     | :Swaziland              |      |                |         |                   | Swaziland   |
| Zambia   | Banda, C.      | Mutula,S.M. | University of | 185 | Information needs       | 2004 | Information    | Article | Malaysian Journal | Copper belt |
|  |                | į.          | Botswana      |     | assessment for small    | ]    | need           |         | of Library and    |             |
|  |                |             |               |     | scale business          |      |                |         | Information       | University  |
|  |                |             |               |     | community in Zambia:    |      |                |         | Science           |             |
|  |                |             |               |     | case study of Chisokonk | }    |                | 1       |                   |             |
|  |                |             |               |     | Market,Kitwe            |      |                |         |                   |             |
| Comment consists and a Albert SA Co. SAN Title | Makondo,F.N.S. | <u> </u>    |               | 186 | An assessment of the    | 2002 | Library        | Book    | Botswana          | University  |
|  |                |             |               | 1   | sustainability          |      | automation     |         | University        | of Zambia   |
|  |                |             |               |     | technology of the       |      |                |         |                   |             |
|  |                |             |               |     | University of Zambia    |      |                |         |                   |             |
|  |                |             |               |     | library                 |      |                |         |                   |             |

| *************************************** | Makondo,F.N.S. | Mutula,S.M.       |   | 187 | IT skills needs for       | 2003 | TI TI            | Article | Library Hi Tech    | University |
|---|----------------|-------------------|---|-----|---------------------------|------|------------------|---------|--------------------|------------|
|   |                |                   |   |     | collection development    | 1    |                  |         |                    | of Zambia  |
|   |                |                   |   |     | at the University of      |      |                  |         |                    |            |
|   |                |                   |   |     | Botswana library          |      |                  |         |                    |            |
|   | Nkhoma,B.P.    | -                 | * | 188 | A critical analysis of    | 2003 | Library          | Article | African Journal of | Copperbelt |
|   |                |                   |   |     | library computerization   |      | automation       |         | LIS                | University |
|   |                |                   | { |     | at copperbelt and         | }    |                  |         |                    |            |
|   |                |                   |   |     | University of Zambia      |      |                  |         |                    |            |
|   | Chimfwembe,    | Lungu, C.B.M.     |   | 189 | Into the information age: | 2002 | Library          | Article | Oxford             | Copperbelt |
|   | L.M.           |                   |   |     | computerization of        |      | automation       |         |                    | University |
|   |                |                   |   |     | Copperbelt University     |      |                  |         |                    |            |
|   |                |                   |   |     | Library                   |      |                  |         |                    |            |
|   | Lungu,C.B.M    | -                 | - | 190 | Educating library users   | 1990 | User education   | Article | Information        | Copperbelt |
|   |                |                   |   |     | at the Copperbelt         |      |                  |         | Development        | University |
|   |                |                   |   |     | University                |      |                  |         |                    |            |
|   | Nyumba,J.B.    | Edited by         |   | 191 | Into the information age: | 2005 | Library          | Article | South African      | Copperbelt |
|   |                | Chimfembe, L. M.& |   |     | computerization of        |      | automation       |         | Journal of LIS     | University |
|   |                | Lungu,C.B.M       |   |     | Copperbelt University     |      |                  |         |                    |            |
|   |                |                   |   |     | Library                   |      |                  |         |                    |            |
| Zimbabwe                                | Chikonzo,A.    | Aina,L.O          | - | 192 | The information           | 2001 | Information      | Article | The International  | University |
|   |                |                   |   |     | environment of            |      | need             |         | Information and    | of         |
|   |                |                   |   |     | Veterinary researchers at |      |                  |         | Library Review     | Zimbabwe   |
|   |                |                   |   |     | the University of         |      |                  |         |                    |            |
|   |                |                   |   |     | Zimbabwe                  |      |                  |         |                    |            |
|   | Chikonzo,A.    | -                 | - | 193 | The potential of          | 2006 | Information      | Article | The International  | University |
|   |                |                   |   |     | information and           |      | storage and      |         | Information and    | of         |
|   |                |                   |   |     | communication             |      | retrieval system |         | Library Review     | Zimbabwe   |

|                |   |       | · · · · · · · · · · · · · · · · · · · | technologies in          | J    |               |             |                  |            |
|----------------|---|-------|---------------------------------------|--------------------------|------|---------------|-------------|------------------|------------|
|                |   |       |                                       | collecting,preserving    |      |               |             |                  |            |
|                |   |       |                                       | and disseminating        |      |               |             |                  |            |
|                |   | )<br> |                                       | indigeneous knowledge    |      |               |             |                  |            |
|                |   |       |                                       | in Africa                |      |               |             |                  |            |
| <br>           |   |       | 0                                     |                          |      |               |             |                  | Midlands   |
|                |   |       |                                       |                          |      | }             |             |                  | State      |
| :              |   |       |                                       |                          |      |               |             |                  | University |
| <br>Sibanda,M. | 4 | -     | 194                                   | Challenges for legal     | 2004 | Law libraries | <br>Article | International    | University |
|                |   |       |                                       | information provision in |      |               |             | Journal of Legal | of         |
|                |   |       |                                       | undergraduates           |      |               |             | Information      | Zimbabwe   |
|                |   |       |                                       | education : the          |      |               |             |                  |            |
|                |   |       |                                       | university of Zimbabwe   |      |               |             |                  |            |
|                |   |       |                                       | law library              |      |               |             |                  |            |

## APPENDIX B

TABLE 10: UNIVERSITY OF NAIROBI STAFF

| NO. | NAME OF STAFF       | QUALIFICATION/DESIGNATION          |
|-----|---------------------|------------------------------------|
| 1   | Munavu Salome       | University librarian               |
| 2   | Were Jacinta        | Acting Deputy University librarian |
| 3   | Irura G.            | Senior librarian                   |
| 4   | Kamau Emily         | Librarian                          |
| 5   | Nyalwal G.          | Librarian                          |
| 6   | Inoti,V.I           | College librarian                  |
| 7   | Gikenye Margaret W. | Senior librarian                   |
| 8   | Mungai S.N.         | Librarian                          |
| 9   | Were J.             | Senior librarian                   |
| 10  | Chepkwony J.        | Senior librarian                   |
| 11  | Wambua N.N.         | Head Binder                        |
| 12  | Mwangi J. K.        | Librarian                          |
| 13  | Weche P.            | Senior librarian                   |
| 14  | Noreh A.            | Acting College librarian           |
| 15  | Mwangi Ephraim N.   | Librarian                          |
| 16  | Maina,P.M.          | Librarian                          |
| 17  | Macharia E.         | College librarian                  |
| 18  | Anyona D.           | College librarian                  |
| 19  | Kabugu A.N.         | College librarian                  |
| 20  | Gatero G.M.         | Librarian                          |
| 21  | Matanji Peter       | Senior librarian                   |
| 22  | Esther Obachi       | Senior librarian                   |
| 23  | Dorothy Njiraine    | Senior librarian                   |
| 24  | Liyai, H.A.         | Senior librarian                   |

Source: University of Nairobi libraries.2008. Staff directory. http://library.uonbi.ac.ke/website/dir/staff.htm

TABLE 11: MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY LIBRARY STAFF

| MASE | MASINDE MULIRO UNIVERSITY OF SCIENCE AND TECHNOLOGY LIBRARY STAFF |                             |  |  |  |  |  |
|------|---|-----------------------------|--|--|--|--|--|
| NO.  | NAME OF STAFF QUALIFICATIONS/DESIGNATION                          |                             |  |  |  |  |  |
| 1    | Shibanda ,George G.   | Acting University librarian |  |  |  |  |  |

Source: Masinde Muliro Universityof Science and technology: 2008. Library staff <a href="http://www.wust.ac.ke/libstaff.html">http://www.wust.ac.ke/libstaff.html</a>

TABLE 12: MOI UNIVERSITY LIBRARY STAFF

| MAR( | GARET THATCHER LIBRARY STA | FF                          |
|------|----------------------------|-----------------------------|
| NO.  | NAME OF STAFF              | QUALIFICATIONS/DESIGNATION  |
| 1    | Dr. Tirong arap Tanui      | University librarian        |
| 2    | W. Ochienge                | College librarian           |
| 3    | G.G. Njoroge               | College librarian           |
| 4    | Catherine Mukoma           | Senior librarian            |
| 5    | Emily Bosire - Ogechi      | Senior librarian            |
| 6    | P.Kurumei                  | Senior librarian            |
| 7    | Penina W. Gathuku          | Senior librarian            |
| 8    | Christropher Koech         | Senior librarian            |
| 9    | Zipporah Chepkoech         | Senior librarian            |
| 10   | Daniel Murgor              | Senior librarian            |
| 11   | S.I.D Khamadi              | Deputy University librarian |
| 12   | I.E.Edebe-Musisi           | Librarian                   |
| 13   | S.K. Mutai                 | System librarian            |
| 14   | A.S.Kiloi                  | Senior librarian            |
| 15   | S.M.Odini                  | Senior librarian            |
| 16   | Bii H.K.                   | Senior librarian            |
| 17   | P.G. Wanyama               | Librarian                   |

Source: Moi University. 2008. Moi University Library Services http://www.mu.ac.ke/library.mtl.html

TABLE 13: UNIVERSITY OF DAR ES SALAAM LIBRARY STAFF

| ERSITY OF DAR ES SALAAM LIBR | ARY STAFF   |   |
|------------------------------|---|---|
| NAME OF STAFF                | QUALIFICATIONS/DESIGNATION  |   |
| A.G.Nkoma-Wamunza            | Senior library staff  |   |
| J.Nawe                       | Senior library staff  |   |
| M.P.Nyerembe                 | Senior library staff  |   |
| P. Manda                     | Senior library staff  |   |
| J.Msuya                      | Senior library staff  | -,  |
| E.Kiondo                     | Senior library staff  |   |
| A.M.Kabudi                   | Senior library staff  |   |
| P.D.Mwaimu                   | Senior librarian  |   |
| A.K.Nkebukwa                 | Senior librarian  |   |
| F.E. Mukangara               | Senior librarian  |   |
| R.J.Kidyalla                 | Senior librarian  |   |
|                              | NAME OF STAFF  A.G.Nkoma-Wamunza  J.Nawe  M.P.Nyerembe  P. Manda  J.Msuya  E.Kiondo  A.M.Kabudi  P.D.Mwaimu  A.K.Nkebukwa  F.E. Mukangara | A.G.Nkoma-Wamunza  J.Nawe Senior library staff  M.P.Nyerembe Senior library staff  P. Manda Senior library staff  J.Msuya Senior library staff  E.Kiondo Senior library staff  A.M.Kabudi Senior library staff  P.D.Mwaimu Senior librarian  Senior librarian  Senior librarian  Senior librarian  Senior librarian  Senior librarian  Senior librarian  Senior librarian |

Source: University of Dar es salaam 2008. Library Information service http://

www.librarv.udsm.ac.tz/about\_us/senior\_staff.php

TABLE 14: MZUMBE UNIVERSITY LIBRARY STAFF

| MZUN | MZUMBE UNIVERSITY LIBRARY STAFF |   |  |  |  |  |  |
|------|---------------------------------|---|--|--|--|--|--|
| NO   | NAME OF STAFF                   | QUALIFICATIONS/DESIGNATION                    |  |  |  |  |  |
| 1    | Leonard Michael                 | HOD Readers services                          |  |  |  |  |  |
| 2    | Sarah Mwambalaswa               | HOD Technical services                        |  |  |  |  |  |
| 3    | Anna S. Mbughuni                | HOD Library services & information management |  |  |  |  |  |

Source: Mzumbe University: 2008. Senior officiers of Mzumbe University http://www.mzumbe.ac.tz/officers.htm

TABLE 15: MAKERERE UNIVERSITY LIBRARY STAFF

| MAKERERE UNIVERSITY LIBRARY STAFF |                       |                                |
|-----------------------------------|-----------------------|--------------------------------|
| NO.                               | NAME OF STAFF         | QUALIFICATIONS/DESIGNATION     |
| 1                                 | Maria G.N.Musoke      | University librarian           |
| 2                                 | Robert Kakembo        | Deputy University librarian    |
| 3                                 | Hellen Byamugisha     | Senior librarian               |
| 4                                 | Margaret Nakiganda    | Head Africana                  |
| 5                                 | Eliz Nassali State    | Acting Head Technical Services |
| 6                                 | Eunice Sendikadiwa    | Senior librarian               |
| 7                                 | Jane Namukarna        | Head, IACE                     |
| 8                                 | Rachel Nakalembe      | Senior librarian               |
| 9                                 | Joan Batungu          | Librarian 1                    |
| 10                                | Jane Kawalya          | Librarian 1                    |
| 11                                | Edith Lutwama         | Head Forestry                  |
| 12                                | Rhoda Nalubega        | Head Education                 |
| 13                                | Miriam KaKai          | Head Periodicals               |
| 14                                | Walter Omona          | Head MISR                      |
| 15                                | Clement T.Namusisi    | Head Technology                |
| 16                                | Agnes Namaganda       | Librarian 1                    |
| 17                                | Charles B.Hashakimana | Head Reference                 |
| 18                                | Emmanuel K.Luyombya   | Librarian II                   |
| 19                                | Wilberforce Musoke L. | Senior librarian               |
| 20                                | George Ntambaazi      | Administrative Assistant       |

Source: Makerere University. 2008. Library staff http://www.mulib.mak.ac.ug/row-link/contacts.html

TABLE 16: UNIVERSITY OF CAPE TOWN LIBRARY STAFF

| UNIV | UNIVERSITY OF CAPE TOWN LIBRARY STAFF |   |  |
|------|---------------------------------------|---|--|
| NO   | NAME OF STAFF                         | QUALIFICATIONS/DESIGNATION                            |  |
| 1    | Susanne Noll                          | Subject librarian (Accounting)                        |  |
| 2    | Sandy Shell                           | Subject librarian (African Studies)                   |  |
| 3    | Bell Angus                            | Subject librarian (African Studies)                   |  |
| 4    | Colin Darch                           | Subject librarian (African Studies)                   |  |
| 5    | Busisiwe Khangala                     | Subject librarian (African Studies)                   |  |
| 6    | Allegra Louw                          | Subject librarian (African Studies)                   |  |
| 7    | Sue Ogterop                           | Subject librarian (African Studies)                   |  |
| 8    | Antoinette Davy                       | Subject librarian (Afrikaans)                         |  |
| 9    | Saskia Vonk                           | Acting Head librarian (Health Science Library)        |  |
| 10   | Tessa Davies                          | Science and Technology Inform. Service librarian      |  |
| 11   | Gcobisa Mziba                         | Subject librarian(Architecture & Planning)            |  |
| 12   | Clement Kotze                         | Subject librarian(Botany)                             |  |
| 13   | Fiona Jones                           | Head Science and Engineering                          |  |
| 14   | Sadiq Keraan                          | Subject librarian(Child Health)                       |  |
| 15   | Alex D'Angelo                         | Manager Humanities Information Service                |  |
| 16   | Mdu Ncongwane                         | Subject librarian(Clinical Laboratory Science)        |  |
| 17   | Gillian Morgan                        | Branch librarian                                      |  |
| 18   | Ndileka Mtshizana                     | Subject librarian(Economics)                          |  |
| 19   | Ingrid Thomson                        | Subject librarian(Education)                          |  |
| 20   | Siviwe Bangani                        | Subject librarian(Electrical Engineering)             |  |
| 21   | Emily Krige                           | Subject librarian(Environmental Geography and Science |  |
| 22   | Tanya Barben                          | Senior Librarian (Rare Books)                         |  |
| 23   | Susanne Noll                          | Subject librarian(Finance)                            |  |
| 24   | Laureen Rushby                        | Head librarian  |  |
| 25   | Abby Collinson                        | Subject librarian(Government Publications)            |  |
| 26   | Anita Visser                          | Subject librarian(Government publications)            |  |
| 27   | Hajiera David                         | Subject librarian(Government Publications)            |  |
| 28   | Jean Risien                           | Subject librarian(Human Biology)                      |  |
| 29   | Mary Shelton                          | Subject librarian(Human Biology)                      |  |
| 30   | Latifa Omar                           | Subject librarian(Health Sciences)                    |  |
| 31   | Amanda Barran                         | Subject librarian(Law)                                |  |
| 32   | Pamela Snyman                         | Subject librarian(Law)                                |  |
| 33   | Dilshaad Brey                         | Subject librarian(Law)                                |  |
| 34   | Balo Booi                             | Subject librarian(Law)                                |  |
| 35   | Thundeza Mariwane-Mashiyi             | Subject librarian(Management and Marketing)           |  |

| 36 | Julie Strauss    | Subject librarian(Music)             |
|----|------------------|--------------------------------------|
| 37 | Cyrill Walters   | Subject librarian(Music)             |
| 38 | Sadiq Keraan     | Subject librarian(Pediatrics)        |
| 39 | Celia Walter     | Subject librarian(Political Science) |
| 40 | Alfred Faltein   | Subject librarian(Sociology)         |
| 41 | Caroline Dean    | Subject librarian(Electronics)       |
| 42 | Sandy Shell      | Head librarian(African Studies)      |
| 43 | Clement Kotze    | Branch librarian(Bolus Herbarium)    |
| 44 | Jean Uys         | Librarian(Collection Development)    |
| 45 | Marilyn Smith    | Manager(Knowledge Commons)           |
| 46 | Digby Sales      | Librarian(Collection Development)    |
| 47 | Joan Rapp        | Library Director                     |
| 48 | Diana Hunter     | Deputy Library Director              |
| 49 | Janine Dunlop    | Librarian(Manuscripts and Archives)  |
| 50 | Najefeh Davids   | Librarian(Short loans)               |
| 51 | Lesley Hart      | Special Collection Manager           |
| 52 | Seta Jackson     | Training librarian                   |
| 53 | Veronica Belling | Senior librarian                     |

Sources University of Cape Town. 2008. Library staff: http://www.lib.uct.ac.za/index.php?html=/2004/info/sublibs.htm&libid=88

TABLE 17: UNIVERSITY OF FORT HARE LIBRARY STAFF

| UNIVERSITY OF FORT HARE LIBRARY STAFF |                    |                                |
|---------------------------------------|--------------------|--------------------------------|
| NO.                                   | NAME OF STAFF      | QUALIFICATIONS/DESIGNATION     |
| 1                                     | Yolissa Soul       | University Librarian           |
| 2                                     | Caroline Kukubo    | Library Administrative Officer |
| 3                                     | Lindsay Reid       | IT Coordinator                 |
| 4                                     | Suzette Oosthuizen | Senior librarian               |
| 5                                     | Lungelwa Madyibi   | Librarian                      |
| 6                                     | Pyrene Bokwe       | Librarian                      |
| 7                                     | Nomzingisi         | Librarian                      |
| 8                                     | Mzwandile Mavuso   | Librarian                      |
| 9                                     | N.Zandile Mogiba   | Senior librarian               |

| Phumla Ndlela    | Librarian  |
|------------------|--|
| Andile Magocoba  | Librarian  |
| J. Kwadwo Amoah  | Librarian  |
| Horst Busch      | Librarian  |
| Mosoabuli Maamoe | Archivist  |
| Mariette Lotter  | Senior Librarian   |
| Jan Ritcher      | Librarian  |
| Brenda Nsanzya   | Librarian  |
| Lynne Woods      | Librarian  |
| Lulama Sodidi    | Librarian  |
|                  | Andile Magocoba  J. Kwadwo Amoah  Horst Busch  Mosoabuli Maamoe  Mariette Lotter  Jan Ritcher  Brenda Nsanzya  Lynne Woods |

Sources: University of Fort Hare. 2008. Library staff http://www.ufh.ac.za/library/staff.php

TABLE 18: UNIVERSITY OF PRETORIA LIBRARY STAFF

| UNIV | UNIVERSITY OF PRETORIA LIBRARY STAFF |                                    |  |
|------|--------------------------------------|------------------------------------|--|
| NO   | NAME OF STAFF                        | QUALIFICATIONS/DESIGNATION         |  |
| 1    | Badenhorst Rita                      | Information Specialist             |  |
| 2    | Baloyi Junior                        | Interlending Specialist            |  |
| 3    | Beukes Gerda                         | Management Information Specialist  |  |
| 4    | Bezuidenhoust Annamarie              | Interlending Specialist            |  |
| 5    | Brassel Maureen                      | Information Specialist             |  |
| 6    | Breytenbach Amelia                   | Cataloguer and Metadata Specialist |  |
| 7    | Brits Rika                           | Circulation officer                |  |
| 8    | Buys Marieta                         | Information Specialist             |  |
| 9    | Coertze Elsa                         | Information Specialist             |  |
| 10   | Coetsee Tertia                       | Information Specialist             |  |
| 11   | De Leeuw Lorret                      | Information Assistant              |  |
| 12   | De Villiers Philip                   | Coordinator: Cataloguing           |  |
| 13   | De Wee Janice                        | Information Specialist             |  |
| 14   | Delport Sonja                        | Information Specialist             |  |
| 15   | DuPisanie Maureen                    | Faculty Library Manager            |  |
| 16   | DuPlessis Riki                       | Information Specialist             |  |
| 17   | Fabris-Rotelli Fay                   | Cataloguer                         |  |
| 18   | Groenewald Hettie                    | Information Specialist             |  |
| 19   | Groenewald Ria                       | Digitization Specialist            |  |

| 20 | Hadebe Thembi               | Campus librarian                  |
|----|-----------------------------|-----------------------------------|
| 21 | Hammes Monica               | Assistant Director                |
| 22 | Habangwane Suidy            | Assistant Information Specialist  |
| 23 | Hobyane Samuel              | Information Assistant             |
| 24 | Janse Van Vuuren Hendriette | Information Specialist            |
| 25 | Kemp Antoinette             | Information Assistant             |
| 26 | Killerman Barbara           | Information Assistant             |
| 27 | Khoza Maria                 | Information Assistant             |
| 28 | Kilian Thea                 | External Client Officer           |
| 29 | Kriel Hilda                 | Deputy Director                   |
| 30 | Kruger Danie                | Information Specialist            |
| 31 | Kruger Olivia               | Cataloguer                        |
| 32 | Kruidenier Retha            | Information Specialist            |
| 33 | Laka Francina               | Interlending Specialist           |
| 34 | Lee Magriet                 | Faculty Library Manager           |
| 35 | Lombard Eldorene            | Circulation Officer               |
| 36 | Lourens Antoinette          | Information Specialist            |
| 37 | Louw Jansie                 | External Client Officer           |
| 38 | Luwaca Sibongile            | Information Specialist            |
| 39 | Maboko Abel                 | Document Delivery Officer         |
| 40 | Madihlaba Tumishi Jan       | Senior Internet/LAN Administrator |
| 41 | Magoro Eric                 | Head Circulation                  |
| 42 | Mahlangu Rachel             | Interlending Specialist           |
| 43 | Maibelo Patrick             | Document Delivery Officer         |
| 44 | Malan Danie                 | Information Specialist            |
| 45 | Malan Katrien               | Information Specialist            |
| 46 | Maritz Marinda              | Journals Administrator            |
| 47 | Marsh Susan                 | Faculty library Manager           |
| 48 | Maseko David                | Journal Administrator             |
| 49 | Matatiele Rafilwa           | Information Specialist            |
| 50 | Matlala Asia                | Information Assistant             |
| 51 | Matlala Rosinah             | Information Assistant             |
| 52 | Matsoma Celia               | Circulation Officer: Coordinator  |
| 53 | Matukane Elliot             | Journal Officer                   |
| 54 | Mayekiso Nozzi              | Information Specialist            |
| 55 | Mbokane Richard             | Interlending Specialist           |
| 56 | Ndhluli Celiwe              | Cataloguer                        |
| 57 | Meyer Gertrud               | Cataloguer                        |
| 58 | Minnaar Emelia              | Interlending Specialist           |
| 59 | Mmalefahlo Josephine        | Document Delivery Officer         |

| 60 | Mokgonoane January    | Information Assistant                                 |
|----|-----------------------|---|
| 61 | Moloto Ellias         | Circulation Officer                                   |
| 62 | Monakhisi Sonty       | Circulation Officer                                   |
| 63 | Moremi Kenny          | IT Consultant   |
| 64 | Moropa Robert         | Director  |
| 65 | Mothutsi Jacob        | Copyright Officer                                     |
| 66 | Moropane Maggie       | Information Specialist                                |
| 67 | Muller Hennie         | IT Help Desk Analyst                                  |
| 68 | Muller Leone          | Information Specialist                                |
| 69 | Munonoka Adam         | Circulation Officer                                   |
| 70 | Naude Faan            | Information Specialist                                |
| 71 | Nel Marguerite        | Cataloguer  |
| 72 | Ngcongo Thuli         | Circulation Officer                                   |
| 73 | Ntshangase Charles    | Journal Administrator                                 |
| 74 | Nyakale Suzy          | Information Specialist                                |
| 75 | Oosthuizen Myleen     | Information Specialist                                |
| 76 | Otto Rieta            | Cataloguer  |
| 77 | Phahia Rachel         | Circulation Officer                                   |
| 78 | Pienaar Annemarie     | Human Resource Officer                                |
| 79 | Pienaar Heila         | Deputy Director                                       |
| 80 | Ramorulane Dave       | Information Assistant                                 |
| 81 | Randall Elna          | Faculty Library Manager                               |
| 82 | Roux Eridine          | Information Specialist                                |
| 83 | Satgoor Ujala         | Faculty Library Manager                               |
| 84 | Schaffner Elsa        | Information Specialist                                |
| 85 | Scheepers Susan       | Information Specialist                                |
| 86 | Schroder Shirley      | Faculty Library Manager                               |
| 87 | Segoe Ivy             | Information Specialist                                |
| 88 | Skosana Maria         | Document Delivery Officer                             |
| 89 | Smith Ina             | Information Retrieval Manager & Electronic Specialist |
| 90 | Steyn Christelle      | Information Specialist                                |
| 91 | Steyn Heleen          | Coordinator Ordering                                  |
| 92 | Steynberg Sunette     | Information Specialist                                |
| 93 | Stieger Liesl         | Information Specialist                                |
| 94 | Stolz Salomie         | Human Resource Officer                                |
| 95 | Swanepoel Marie       | Electronic journal Administrator                      |
| 96 | Swanepoel Soekie      | Coordinator-IMPS                                      |
| 97 | Theron Marie          | Information Specialist                                |
| 98 | Theunissen Jacqueline | Information Specialist                                |
| 99 | Tonsing Rolf          | Senior Information System Consultant                  |

| 100 | Trichardt Tamal              | Information Specialist          |
|-----|------------------------------|---------------------------------|
| 101 | Van der Walt Isobel          | Information Specialist          |
| 102 | Van der Westhuizen Erica     | Faculty Library Manager         |
| 103 | Van der Westhuizen Marietjie | Coordinator Circulation         |
| 104 | Van der Merwe Pieter         | Coordinator Special Collections |
| 105 | Van Schalkwyk Mari           | Information Assistant           |
| 106 | Van Schalkwyk Monica         | Information Assistant           |
| 107 | Van Wyk Johann               | Faculty Library Manager         |
| 108 | Venter Clarrise              | Information Specialist          |
| 109 | Verheem Elsie                | Information Assistant           |
| 110 | Vermeulen Julene             | Information Specialist          |
| 111 | Viljoen Liana                | Information Specialist          |
| 112 | Volschenk Mike               | Information Specialist          |
| 113 | Wydeman Leonora              | Coordinator ICT Unit            |
| 114 | Young Anna-Marie             | Cataloguer                      |

**Source:** University of Pretoria. 2008.  $Staff A - Z \underline{\text{http://www.ais.up.ac.za/aboutus/governance.htm}}$ 

TABLE 19: UNIVERSITY OF RHODES LIBRARY STAFF

| NO | NAME OF STAFF           | QUALIFICATIONS/DESIGNATION                      |
|----|-------------------------|---|
| 1  | Berger J. Jeanne        | Head Librarian: Collection & Technical Services |
| 2  | Botha V.J. Vivien       | Head :Public Service                            |
| 3  | Dampies G. J. E. Gareth | System Administrator                            |
| 4  | Kabwato S. B. Shirley   | Head Librarian Cory Library                     |
| 5  | Thomas G. M. E. Gwenda  | Director Library Services.                      |

Source: University of Rhodes. 2008. Staff directory <a href="http://www.ru.ac.za/library/about/contacts/staffdir.html">http://www.ru.ac.za/library/about/contacts/staffdir.html</a>

TABLE 20: WESTERN CAPE UNIVERSITY LIBRARY STAFF

| WESTERN CAPE UNIVERSITY LIBRARY STAFF |  |  |
|---------------------------------------|--|--|
| NAME OF STAFF                         | QUALIFICATIONS/DESIGNATION   |  |
| Andrea J.S.                           | Deputy Librarian   |  |
| Bailey D.J.                           | Section Head Acquisition   |  |
| Coetzee                               | Section Head Cataloguing   |  |
| Davids E.                             | Section Head Interlibrary Loan   |  |
| De Wet                                | Faculty Librarian  |  |
| Cook K.                               | Faculty Librarian  |  |
| Fortuin J.C.                          | Special Collection Librarian   |  |
| Fortune T.G.                          | Section Head Circulation   |  |
| Hendricks H. W. G.                    | Faculty Librarian  |  |
| Knoll V.D.                            | Faculty Librarian  |  |
| Kekana K.                             | Deputy University Librarian  |  |
| Koen Z. K.                            | Faculty Librarian  |  |
| Londt M.                              | Multimedia Librarian   |  |
| Mackenzie F.                          | Faculty Librarian  |  |
| Mandubu B.                            | Faculty Librarian  |  |
| Mitchell-Kamalie L.A.                 | Faculty Librarian  |  |
| Moses G.                              | Section Head Binding   |  |
| Ntshuntshe-Matshaya Pateka            | Director University Library Services   |  |
| Tarkey S.                             | Faculty Librarian  |  |
| Van Der Walt W.                       | Section Head LICT  |  |
| Van Rooyen T.W.                       | Faculty Librarian  |  |
|                                       | NAME OF STAFF  Andrea J.S.  Bailey D.J.  Coetzee  Davids E.  De Wet  Cook K.  Fortuin J.C.  Fortune T.G.  Hendricks H. W. G.  Knoll V.D.  Kekana K.  Koen Z. K.  Londt M.  Mackenzie F.  Mandubu B.  Mitchell-Kamalie L.A.  Moses G.  Ntshuntshe-Matshaya Pateka  Tarkey S.  Van Der Walt W. |  |

Source: University of the Western Cape. 2008. Staff contact <a href="http://ww3.uwc.ac.za/index.asp?webpageid=3592&pagemode">http://ww3.uwc.ac.za/index.asp?webpageid=3592&pagemode</a>

TABLE 21: UNIVERSITY OF STELLENBOSCH LIBRARY STAFF

| NO | NAME OF STAFF       | QUALIFICATIONS/DESIGNATION                                   |
|----|---------------------|--|
| 1  | Ellen Tise          | Senior Director  |
| 2  | Johan Englebrecht   | Deputy Director  |
| 3  | Sarah Kibirige      | Assistant Director (Technical Services & Electronic Resource |
|    |                     | Manager)   |
| 4  | Elda Notte          | Assistant Director (Client Services)                         |
| 5  | Wouter Klapwijk     | IT   |
| 6  | Henri Wirth         | Chief Restorer(Restoration)                                  |
| 7  | Marianna Kritzinger | Cataloguing JS Gericke Library                               |
| 8  | Annemarie Schoeman  | Circulation JS Gericke Library                               |
| 9  | Marita Landsberg    | Serial JS Gericke Library                                    |
| 10 | Mimi Seyffert       | Special Collection   |
| 11 | Delene Pretorius    | Information Service Division                                 |
| 12 | Henriette Swart     | USBI (Bellville Park Campus Information Centre)              |
| 13 | Lucia Schoombe      | Webservices & Communication                                  |
| 14 | Corinna Truter      | Librarian Engineering and Forestry Library                   |
| 15 | Beulah Gericke      | Librarian Music Library                                      |
| 16 | Linda Coetzee       | Librarian Health Science Library                             |

Source: University of Stellenbosh.2008. staff directory http://www.lib.sun.ac.za/library/pers/default.asp

TABLE 22: UNIVERSITY OF WITWATERSRAND LIBRARY STAFF

| UNIVERSITY OF WITSWATERSRAND LIBRARY STAFF |                 |   |
|--|-----------------|---|
| NO   | NAME OF STAFF   | QUALIFICATIONS/DESIGNATION              |
| 1  | Cornelia Bothma | Law librarian                           |
| 2  | Aysha Patel     | Deputy law librarian                    |
| 3  | Mark Sandham    | Education librarian                     |
| 4  | Alison Chisholm | Deputy librarian (Education)            |
| 5  | Cathy Dryden    | Commerce librarian                      |
| 6  | Veena Jayaram   | Senior librarian(Commerce & Management) |
| 7  | W. Kalushi      | Head, Main desk Short Loan Collection   |
| 8  | Linda Mbonambi  | Deputy Arts librarian                   |

| 9  | Joalane Mathe         | Information & Reference Desk Librarian      |
|----|-----------------------|---|
| 10 | Simon Lesejane        | Multimedia librarian                        |
| 11 | Maryna Van den Heever | Senior librarian (Engineering librarian)    |
| 12 | Paiki Muswazi         | Head librarian Cullen library               |
| 13 | Stephen R.Mitchell    | Senior librarian                            |
| 14 | Felix Ubogu           | University librarian                        |
| 15 | Clare Walker          | Deputy University librarian                 |
| 16 | Simon Mofokeng        | Manager: Library Computer Services          |
| 17 | Rebecca Senyolo       | Education & training librarian              |
| 18 | Judy Marshall         | Deputy Acquisition librarian                |
| 19 | Margaret Northey      | Africana librarian                          |
| 20 | Janie Johnson         | Architecture librarian                      |
| 21 | Linda Mbonambi        | Atrs & Humanities librarian                 |
| 22 | Steve Mitchell        | Biology & Physical Science librarian        |
| 23 | Moira Moore           | Cataloguing librarian                       |
| 24 | Denise Nicholson      | Copyright Services Librarian                |
| 25 | Jennifer Croll        | Corporate user scheme librarian             |
| 26 | Peter Duncan          | Early & fine printed book librarian         |
| 27 | Juliet Herbstein      | Geography and Maths librarian               |
| 28 | Glenda Myers          | Health science librarian                    |
| 29 | Carole Willis         | Library systems coordinator                 |
| 30 | Janet Zambri          | Interlibrary loan librarian                 |
| 31 | Michelle Pickover     | Manuscripts curator                         |
| 32 | Patricia Mothopeng    | Management librarian                        |
| 33 | Cynthia Warren        | Periodical librarian                        |
| 34 | Jay Mathe             | Information and reference service librarian |

**Source:** University of the Witwatersrand. 2008. *The Library: Library academic staff* <a href="http://web.wits.ac.za/Library/AboutUs/Staff/">http://web.wits.ac.za/Library/AboutUs/Staff/</a>

TABLE 23: UNIVERSITY OF JOHANNESBURG LIBRARY STAFF

| UNIV | UNIVERSITY OF JOHANNESBURG LIBRARY |   |  |
|------|------------------------------------|---|--|
| NO   | NAME OF STAFF                      | QUALIFICATIONS/DESIGNATION              |  |
| 1    | Kaunda Neil                        | Campus librarian                        |  |
| 2    | Madendo Mduduzi                    | Team leader lending services            |  |
| 3    | Aramugam Anusuya                   | Functional head shared support services |  |
| 4    | Botha Marina                       | Cataloguing                             |  |

| 5  | Bouwer Anza                 | Cataloguing   |
|----|-----------------------------|---|
| 6  | Dlangamandla Beauty         | Team leader cataloguing                                   |
| 7  | Janse Van Vuren Annette(Dr) | Functional head client services                           |
| 8  | Latsky Henriette            | HOD Archiving ,special collection & Information retrieval |
| 9  | Lienbenberg Annette         | HOD Acquisition, cataloguing & physical processing        |
| 10 | Maluleke Atline             | Archiving librarian                                       |
| 11 | Mashishi Thapelo            | Copyright librarian                                       |
| 12 | Ndaba Victor                | Campus librarian  |
| 13 | Sander Hannie               | Executive librarian                                       |
| 14 | Raju Santha                 | Team leader Information service                           |
| 15 | Van der Westhuizen Janina   | Campus librarian  |
| 16 | Mojwadlamba Sandile         | Team leader lending services                              |
| 17 | Paris Julia                 | Campus librarian  |
| 18 | Kunene Charlotte            | Campus librarian  |

**Source:** University of Johannesburg 2008. Library information centre: staff <a href="http://www.uj.ac.za/library/AboutUs/Staff/tabid/4191/Default.aspx">http://www.uj.ac.za/library/AboutUs/Staff/tabid/4191/Default.aspx</a>

TABLE 24: NELSON MANDELA METROPOLITAN UNIVERSITY LIBRARY STAFF

| NO | NAME OF STAFF       | QUALIFICATIONS/DESIGNATION                       |
|----|---------------------|--|
| 1  | Elna Burger         | Senior Manager System, ERM & Quality)            |
| 2  | Philip Clarke       | Senior Manager bibliographic services            |
| 3  | Hester Kritzinger   | Senior Manager Information & training services   |
| 4  | Zingisani Makrwede  | Senior Manager circulation                       |
| 5  | Andre Schonken      | Director library & information services          |
| 6  | Isaac Samuels       | Administrative Assistant, information & training |
| 7  | Amanda Human        | Senior librarian                                 |
| 8  | Nicky Kendall       | Librarian  |
| 9  | Desiree Minnaar     | Senior librarian                                 |
| 10 | Sandra Olivier      | Librarian  |
| 11 | Heinrich Oosthuizen | Librarian  |
| 12 | Nwabisa Rasana      | Librarian  |
| 13 | Salome Stipp        | Librarian  |
| 14 | Nobuzwe Bavuma      | Librarian  |
| 15 | Marlene Du Plessis  | Senior librarian                                 |
| 16 | Zingi Mantewu       | Librarian  |

| 17 | Maditaba Meltaf   | Librarian         |
|----|-------------------|-------------------|
| 18 | Khaya Ngcuka      | Librarian         |
| 19 | Elise Viljoen     | Senior librarian  |
| 20 | Omaya Allie       | Senior librarian  |
| 21 | Judy Havemann     | Senior librarian  |
| 22 | Bartina Odendaal  | Senior librarian  |
| 23 | Hilde Van Wyk     | Librarian         |
| 24 | Helene Badenhorst | Librarian         |
| 25 | Magdalene Breda   | Librarian         |
| 26 | Madeleine Claire  | Librarian         |
| 27 | Pauline Daleman   | Senior librarian  |
| 28 | Deidre Gerber     | Senior librarian  |
| 29 | Pelisa Hlanga     | Librarian         |
| 30 | Vuyani Mhlontlo   | Librarian         |
| 31 | Desiree Ntshinga  | Senior librarian  |
| 32 | Dawn Prinsloo     | Librarian         |
| 33 | Jean Thomas       | Librarian         |
| 34 | Anna Bohler       | Web Administrator |
| 35 | Roelien Clarke    | Senior librarian  |
| 36 | Marina Ward       | Senior librarian  |

Source: Nelson Mandela Metropolitan University. 2008. Library and information service: staff list catagory <a href="http://www.nmmu.ac.za/default.asp?jd=5095&did=161&mod=staffcat&gh=Staff">http://www.nmmu.ac.za/default.asp?jd=5095&did=161&mod=staffcat&gh=Staff</a> <a href="https://www.nmmu.ac.za/default.asp?jd=5095&did=161&mod=staffcat&gh=Staff">https://www.nmmu.ac.za/default.asp?jd=5095&did=161&mod=staffcat&gh=Staff</a>

TABLE 25: UNIVERSITY OF SOUTH AFRICA LIBRARY STAFF

| NO | NAME OF STAFF   | QUALIFICATIONS/DESIGNATION             |
|----|-----------------|--|
| 1  | Jean Maree      | Acquisition librarian                  |
| 2  | Marie Coetzee   | Archivist                              |
| 3  | Hester Marais   | Authority Control librarían            |
| 4  | Welna Van Eeden | Bibliography standards librarian       |
| 5  | Judy Henning    | Cataloguing & Classification librarian |
| 6  | Este Retief     | Research and development librarian     |
| 7  | Jenny Swanepoel | Serials librarians                     |
| 8  | Anne Bath       | System administrator                   |

| 9  | Retha Lamprecht  | System administrator |
|----|------------------|----------------------|
| 10 | Letlie Erasmus   | INNOPAC Coordinator  |
| 11 | Dr. Mbambo-Thata | Executive Director   |

Source: UNISA. 2008. contact a librarian <a href="http://www.unisa.ac.za/Default.asp?Cmd=ViewContent&ContentID=454">http://www.unisa.ac.za/Default.asp?Cmd=ViewContent&ContentID=454</a>

TABLE 26: UNIVERSITY OF VENDA LIBRARY STAFF

| UNIVERSITY OF VENDA LIBRARY STAFF |  |  |
|-----------------------------------|--|--|
| NAME OF STAFF                     | QUALIFICATIONS/DESIGNATION   |  |
| Mushoni Mulaudzi                  | Library director   |  |
| Irene Mashamba                    | Assistant director   |  |
| Calvin Muloiwa                    | Librarian  |  |
| Annah Matodzi                     | Librarian  |  |
| Cynthia Molepo                    | Librarian  |  |
| Aaron Tshikotshi                  | Librarian  |  |
| Tshililo Malaba                   | Librarian  |  |
|                                   | NAME OF STAFF  Mushoni Mulaudzi  Irene Mashamba  Calvin Muloiwa  Annah Matodzi  Cynthia Molepo  Aaron Tshikotshi |  |

Source: University of Venda.2008. Library service: staff http://www.univen.ac.za/library/staff.php

TABLE 27: WALTER SISULU UNIVERSITY OF SCIENCE AND TECHNOLOGY LIBRARY STAFF

|   | WALTER SISULU UNIVERSITY OF SCIENCE AND TECHNOLOGY LIBRARY STAFF |               |  |
|---|--|---------------|--|
|   | NO   | NAME OF STAFF | QUALIFICATIONS/DESIGNATION                     |
| ľ | 1  | N. Mpeta      | Interim Library & information science director |

Source: Walter Sisulu University of Science and Technology. 2008..staff http://www.uzulu.ac.za/Staff478.aspx

TABLE 28: UNIVERSITY OF ZULULAND LIBRARY

| UNIVERSITY OF ZULULAND LIBRARY STAFF |               |                             |
|--------------------------------------|---------------|-----------------------------|
| NO                                   | NAME OF STAFF | QUALIFICATIONS/DESIGNATION  |
| 1                                    | Vahed L.      | University Librarian        |
| 2                                    | Mdletshe E.C. | Deputy University Librarian |
| 3                                    | Gina F. M.    | Serial Librarian            |
| 4                                    | Guma C.M.N    | Acquisition librarian       |
| 5                                    | Khumalo B.H.  | Social science librarian    |

| 6  | Mgobozi M.     | Circulation librarian  |
|----|----------------|------------------------|
| 7  | Mthembu S.     | Serials librarian      |
| 8  | Ntuli N.C.     | Education librarian    |
| 9  | Sigwebela A.B. | System librarian       |
| 10 | Sithole M.Z.   | Law librarian          |
| 11 | Ocholla L.     | Pure science librarian |
| 12 | Jiyane Veli    | Subject librarian      |

Source: University of Zululand. 2008. Library staff http://www.uzulu.ac.za/Staff478.aspx

TABLE 29: CAPE PENINSULA UNIVERSITY OF TECHNOLOGY LIBRARY STAFF

| CAPE | CAPE PENINSULA UNIVERSITY LIBRARY STAFF |                            |  |
|------|---|----------------------------|--|
| NO   | NAME OF STAFF                           | QUALIFICATIONS/DESIGNATION |  |
| 1    | Nathan Kalam                            | Librarian                  |  |
| 2    | Rolfe Proske                            | Librarian                  |  |
| 3    | Yunus Omar                              | Librarian                  |  |
| 4    | Sello Borephe                           | Faculty librarian          |  |
| 5    | Brian Radloff                           | Faculty librarian          |  |
| 6    | Mike Moll                               | Branch librarian           |  |
| 7    | Zaba Tshabalala                         | Faculty librarian          |  |
| 8    | Hlongiwe Mzoneli                        | Faculty librarian          |  |
| 9    | Sulaiman Majal                          | Faculty librarian          |  |
| 10   | Sharon Panayiotou                       | Branch librarian           |  |
| 11   | Edena Du Toit                           | Faculty librarian          |  |
| 12   | Veliswa Tshetsha                        | Faculty librarian          |  |
| 13   | Fatima Darries                          | Faculty librarian          |  |
| 14   | Nisa Hendrickse                         | Faculty librarian          |  |
| 15   | Marion Davids                           | Librarian                  |  |

Source: Cape Peninsula University of Technology. 2008. Library staff http://www.cput.ac.za/library 2/librarian.php

TABLE 30: CENTRAL UNIVERSITY OF TECHNOLOGY LIBRARY STAFF

| CUT LIBRARY STAFF |                   |   |
|-------------------|-------------------|---|
| NO                | NAME OF STAFF     | QUALIFICATIONS/DESIGNATION                |
| 1                 | M.Meyer           | Librarian                                 |
| 2                 | Y. Jacobs         | Librarian                                 |
| 3                 | Ackermans         | Librarian                                 |
| 4                 | Jeannet Molopyane | Head of undergraduate information service |
| 5                 | Tshidi J.         | Head of undergraduate information service |
| 6                 | Anita du Toit     | Head of postgraduate information service  |
| 7                 | Lizette Storm     | Librarian faculty of management           |

**Source:**Central University of Technology.2008. *Library staff* <a href="http://www.cut.ac.za/web/academics/library/generalinfo/licstaffbfn">http://www.cut.ac.za/web/academics/library/generalinfo/licstaffbfn</a>

TABLE 31: DURBAN UNIVERSITY OF TECHNOLOGY LIBRARY STAFF

| NO. | NAME OF STAFF         | QUALIFICATIONS/DESIGNATION |
|-----|-----------------------|----------------------------|
| 1   | Mkhize Vincent        | Material access            |
| 2   | Cloete Louise         | Manager                    |
| 3   | Dlamini Mbali         | Processing                 |
| 4   | Eswarlal Rajen        | Acquisítion                |
| 5   | Gierke Trish          | Cataloguing                |
| 6   | Greffrath Anna- Marie | Cataloguing                |
| 7   | Herbert Karin         | Processing                 |
| 8   | Joseph Wendy          | Periodical                 |
| 9   | Khomo Musa            | Periodicals                |
| 10  | Khumalo Millicient    | Acquisition                |
| 11  | Languer Jeanette      | Cataloguing                |
| 12  | Magagula Reginald     | Periodicals                |
| 13  | Mazibuke Zethu        | Cataloguing                |
| 14  | Moodley Kusturie      | Acquisition                |
| 15  | Moonasar Anushie      | Cataloguing                |
| 16  | Ntshingila Thola      | Acquisition                |
| 17  | Rawlins Annemarie     | Cataloguing                |
| 18  | Sithole Ziningi       | Processing                 |

| 19 | Steyn Eileen         | Periodicals                  |
|----|----------------------|------------------------------|
| 20 | Thumbadoo Camilla    | Cataloguing                  |
| 21 | Mapumlwane Daliwonga | Information service          |
| 22 | Mhlongo Patrick      | Material access              |
| 23 | Peter Trevor         | Material access              |
| 24 | Ndewonde Zithulele   | Material access              |
| 25 | Ndawonde Daliwonga   | Information service          |
| 26 | Nguloane Ntsili      | Material access              |
| 27 | Govender Pam         | Web Officer                  |
| 28 | Iwara Bongani        | Material access              |
| 29 | Khan Sarah           | Computer technician          |
| 30 | Kunene Zak           | IT- Co -ordinator            |
| 31 | Maharaj - Rakesh     | Coordinator: Material access |
| 32 | Makathini Sizeni     | Material access              |
| 33 | Moses Abel           | Legal reference collection   |
| 34 | Mthembu Queen        | Material access              |
| 35 | Mthethwa Nonjabulo   | Material access              |
| 36 | Myeza Joyce          | Information service          |
| 37 | Naidoo Ini           | Material access              |
| 38 | Ngubelanga Bongani   | Media access                 |
| 39 | Ntsele Lindiwe       | Information service          |
| 40 | Pillay Vino          | Material access              |
| 41 | Radebe Siza          | Manager                      |
| 42 | Zulu Philani         | Coordinator                  |
| 43 | Mpendulo Nobuntu     | Manager                      |
| 44 | Muller Nickey J.     | Deputy director              |
| 45 | Mchunu Sipho         | Material access              |
| 46 | Naicker Andrew       | Material access              |
| 47 | Spershott Claire     | Site Coordinator             |
| 48 | Gumede Lindiwe       | Information service          |
| 49 | Madho Molly          | Material access              |
| 50 | Mayelo Vuyani        | Inter library loan           |
| 51 | Naicker Kogie        | Coordinator: material access |
| 52 | Naidoo Segarani      | Information service          |
| 53 | Newane Prince        | Material access              |
| 54 | Ramlugun Vinesh      | Material access              |
| 55 | Shah Anita           | Training librarian           |
| 56 | Thomas David         | Media Center                 |

Source: Durban University of Technology. 2008. DLT library: library staff http://library.dit.ac.za.staffing.htm

TABLE 32: TSHWANE UNIVERSITY OF TECHNOLOGY LIBRARY STAFF

| NO | NAME OF STAFF         | QUALIFICATIONS/DESIGNATION                       |
|----|-----------------------|--|
| 1  | Jeanette Bijl         | Library head Nelpruit                            |
| 2  | Ruth Segage           | Librarian Nelpruit                               |
| 3  | Musa Sibambo          | Librarian Nelpruít                               |
| 4  | Anee Sieberhagen      | Librarian Nelpruit                               |
| 5  | Winnie Khoza          | Librarian Nelpruit                               |
| 6  | Eunice Leseyane       | Campus director Ga Rankuwa                       |
| 7  | Thipa Ntja            | Campus circulation desk Ga Rankuwa               |
| 8  | Rhandzu Mhinga        | Library head Polokwane                           |
| 9  | Dr. Adriaan Swanepoel | Library director Pretoria                        |
| 10 | Abram Kheswa          | Circulation desk Pretoria                        |
| 11 | Jacomi Cathro         | Library head                                     |
| 12 | Sonto Mabena          | Information librarian                            |
| 13 | Adreyette Booyse      | Inter library loan                               |
| 14 | Joyce Mohlala         | Circulation librarian                            |
| 15 | Lynette Bester        | ERC  |
| 16 | Marlene Beetge        | Head branch library                              |
| 17 | Maria Malete          | Information librarian                            |
| 18 | Billy Mahlangu        | Circulation librarian                            |
| 19 | Maria Malete          | Inter library loan                               |
| 20 | Jean Du Plooy         | Head branch library                              |
| 21 | Rina White            | Information librarian                            |
| 22 | Sithsaba Gaulana      | Information librarian                            |
| 23 | Alice Machele         | Information librarian                            |
| 24 | Eunice Mhlangu        | Information librarian                            |
| 25 | Malebo Ratlou         | Information librarian                            |
| 26 | Brenda Swanepoel      | Health science librarian                         |
| 27 | Martie Van Der Merwe  | Information & communication technology librarian |
| 28 | Magdeline Mashilo     | Information & communication technology librarian |
| 29 | Susan Appeleryn       | Hospitality librarian                            |

**Source:** Tshwane University of Technology.2008. Library and information services: library staff contact details <a href="http://lib.tut.ac.za/libraries/arcadia.htm#">http://lib.tut.ac.za/libraries/arcadia.htm#</a>, <a href="http://lib.tut.ac.za/libraries/arts.htm#">http://lib.tut.ac.za/libraries/arts.htm#</a>ls

TABLE 33: VAAL UNIVERSITY OF TECHNOLOGY LIBRARY STAFF

| VAAL | VAAL UNIVERSITY OF TECHNOLOGY LIBRARY STAFF |                                     |  |
|------|---|-------------------------------------|--|
| NO   | NAME OF STAFF                               | QUALIFICATIONS/DESIGNATION          |  |
| 1    | A.J. Gozo                                   | Senior director                     |  |
| 2    | Miriam Sandase                              | Administrator                       |  |
| 3    | Nomoya Mahlangu                             | HOD circulation                     |  |
| 4    | Karien Du Bruyn                             | Subject librarian                   |  |
| 5    | Lungiswa Hlazo                              | Subject librarian                   |  |
| 6    | Zodwa Somi-Thomson                          | Subject librarian                   |  |
| 7    | Dudu Leshega                                | Subject librarian                   |  |
| 8    | Susan Mok                                   | HOD acquisition                     |  |
| 9    | Lionel Luvhengo                             | HOD                                 |  |
| 10   | Hendrina Grove                              | Subject librarian                   |  |
| 11   | Charles Ngolele                             | Librarian user education & training |  |
| 12   | Benny Maleu                                 | Librarian                           |  |
| 13   | Sibongile Khulelaphi                        | Librarian                           |  |

**Source:** Vaal University of Technology..2008..staff contact:who's who <a href="http://www.vut.ac.za/metadot/index.pl?id=13444&isa=Category&op=show">http://www.vut.ac.za/metadot/index.pl?id=13444&isa=Category&op=show</a>

TABLE 34: UNIVERSITY OF BOTSWANA LIBRARY STAFF

| NO | NAME OF STAFF    | QUALIFICATIONS/DESIGNATION                |
|----|------------------|---|
| 1  | E. Mpotokwane    | Accounting & Finance librarian            |
| 2  | F. K. Tawete     | Adult education librarian                 |
| 3  | G. Isaac         | African language & literature librarian   |
| 4  | A. M. Mtologi    | Architecture & planning librarian         |
| 5  | R. K. Ntseane    | Biological sciences librarian             |
| 6  | C. V. Radiporo   | Botswana & Documents & special collection |
| 7  | Molebatsi K.     | Civil engineering librarian               |
| 8  | Dr. P. Jain      | Computer science librarian                |
| 9  | Maphakwane G.    | Economics librarian                       |
| 10 | Taweta F.K.      | Education foundation librarian            |
| 11 | Seanego J. M.    | Education technology librarian            |
| 12 | Molebatsi K.     | Electrical engineering librarian          |
| 13 | Kgosiemang, R.T. | English librarian                         |

| 14 | Ketshogilena D.       | Environmental health librarian            |
|----|-----------------------|---|
| 15 | Nkrumah K.            | French librarian                          |
| 16 | Motlogi A. M.         | Geology librarian                         |
| 17 | Morupisi L.           | Home economics librarian                  |
| 18 | Nfila R.B.            | Industrial design & technology librarian  |
| 19 | Mologanyi B.          | Education librarian                       |
| 20 | Radijena K.           | Law librarian                             |
| 21 | E. Mpotokwane         | Marketing librarian                       |
| 22 | E. Asofu Adjaye       | Management librarian                      |
| 23 | Dr. P.Jain            | Mathematics librarian                     |
| 24 | Seanego J. M.         | Mathematics & science education librarian |
| 25 | G.Isaac               | Political science librarian               |
| 26 | B.Mologanyi           | Primary education librarian               |
| 27 | Fidzani,B.            | Director                                  |
| 28 | Mbaakanyi, D.M.       | Resource manager                          |
| 29 | Qobose,E.N.           | Customer and extension services           |
| 30 | Esilaba,A.O.          | Librarian                                 |
| 31 | Willet, S.            | Librarian                                 |
| 32 | Radiporo, V.C.        | Librarian                                 |
| 33 | Motlogi, A.M.         | Librarian                                 |
| 34 | Moseki, G.O.          | Librarian                                 |
| 35 | Masonya, O.           | Librarian                                 |
| 36 | Nkrumah - Boateng, K. | Librarian                                 |
| 37 | Ojedokun, A.A.        | Librarian                                 |
| 38 | Lekau, A.A.           | Librarian                                 |
| 39 | Radijeng K.           | Librarian                                 |
| 40 | Toteng, B.            | Librarian                                 |
| 41 | Sumathiamma, J.       | Librarian                                 |
| 42 | Rao, K.N.             | Senior librarian                          |
| 43 | Dimbungu ,M.M         | Librarian                                 |
| 44 | Dintwe, M.N.          | Senior librarian                          |
| 45 | Mwemutsi              | Librarian                                 |
| 46 | Lumande, E.           | Senior Librarian                          |
| 47 | Badisang B.           | Senior librarian                          |
| 48 | Oladokun, O. S.       | CCE librarian                             |
| 49 | Kiberu, H.            | HOORC, librarian officer                  |

**Source:** University of Botswana. *Libraries.2008. subject librarians subject portals* <a href="http://www.ub.bw/library\_sp.cfm?pid=471">http://www.ub.bw/library\_sp.cfm?pid=471</a>

TABLE 35: UNIVERSITY OF ZAMBIA LIBRARY STAFF

| UNIV | UNIVERSITY OF ZAMBIA LIBRARY STAFF |                                    |  |
|------|------------------------------------|------------------------------------|--|
| NO   | NAME OF STAFF                      | QUALIFICATIONS/DESIGNATION         |  |
| 1    | Dr. A. Akakandelwa                 | Acting deputy university librarian |  |
| 2    | Makondo Francina                   | Head medical library               |  |
| 3    | Chifwepa Vitality                  | University librarian               |  |
| 4    | Precious Nganga                    | Cataloguer                         |  |
| 5    | Chitwa                             | Chief binder                       |  |
| 6    | Mtonga Levison                     | Senior binder                      |  |
| 7    | Mwamba J                           | Senior binder                      |  |
| 8    | Sitwala H.L.                       | Head collection development        |  |
| 9    | Shameenda L.K.                     | Head Public Service                |  |
| 10   | Mumba N.M.                         | Acting head of serial division     |  |
| 11   | Mwafulilwa C.                      | Head collection division           |  |
| 12   | Chewe P.                           | Head cataloguing                   |  |
| 13   | Chitumbo Eness                     | Cataloguing specialist             |  |
| 14   | Pangani H.Zulu                     | Serial librarian                   |  |

Source: University of Zambia 2008. Library staff

http://www.unza.zm/units/library/index.php?option=com\_content&task=view&id=14&Itemid=60

TABLE 36: UNIVERSITY OF SWAZILAND LIBRARY STAFF

| UNIV | UNIVERSITY OF SWAZILAND LIBRARY STAFF |                             |  |
|------|---------------------------------------|-----------------------------|--|
| NO   | NAME OF STAFF                         | QUALIFICATIONS/DESIGNATION  |  |
| 1    | Mavuso M.R.                           | Librarian                   |  |
| 2    | Ngcobo Z. G.                          | Deputy librarian            |  |
| 3    | Chibambo M. N.                        | Senior assistant librarian  |  |
| 4    | Mkhonta F.T.                          | Senior assistant librarian  |  |
| 5    | Phiri Z. M.                           | Senior assistant librarian  |  |
| 6    | Anbu J. P.                            | Assistant librarian         |  |
| 7    | Omobitan B.O.                         | Assistant librarian         |  |
| 8    | Thwala A.                             | Assistant librarian         |  |
| 9    | Yumba D.                              | Assistant librarian         |  |
| 10   | Dlamini N.                            | Assistant librarian         |  |
| 11   | Mathebela N.                          | Trainee assistant librarian |  |
| 11   | Vilakazi N.                           | Trainee assistant librarian |  |
| 12   | Ndzimandze A. T.                      | Trainee assistant librarian |  |

Source: University of Swaziland. 2008. Library administration http://library.uniswa.sz/

TABLE 37: UNIVERSITY OF NAMIBIA LIBRARY STAFF

| NO | NAME OF STAFF        | QUALIFICATIONS/DESIGNATION   |
|----|----------------------|--|
| 1  | Kahengua Kavevangua  | Special collection librarian   |
| 2  | Hazel Van Rooi       | Information & communication studies librarian                        |
| 3  | Stephen Visagie      | Literature, languages, religion ,philosophy & theology librarian     |
| 4  | Siegfriede Karsten   | Education, psychology, social work, librarian                        |
| 5  | Mbenae Katjihingua   | Distance education librarian   |
| 6  | Ohene Awuku          | Law, political science, public administration, criminology librarian |
| 7  | Maggy Marenga        | Agriculture  |
| 8  | Kutzner Jochen       | Head archivist   |
| 9  | Katjiveri Mercia     | Assistant archivist  |
| 10 | Irmela Buchholz      | Cataloguing librarian  |
| 11 | Hansmann Louise      | Cataloguing librarian  |
| 12 | Margenstern Renate   | HOD technical services & systems                                     |
| 13 | Namhila Ellen Ndeshi | University librarian   |

Source: University of Namibia 2008. Library staff http://iibrary.unam.na/libr-staff.html

TABLE 38: UNIVERSITY OF MALAWI LIBRARY STAFF

| UNIVERSITY OF MALAWI LIBRARY STAFF |                    |                            |
|------------------------------------|--------------------|----------------------------|
| NO                                 | NAME OF STAFF      | QUALIFICATIONS/DESIGNATION |
| 1                                  | Vuma Kaunda        | College librarian          |
| 2                                  | Margaret Ngwira    | College librarian          |
| 3                                  | Geoffrey F.Salanje | College librarian          |
| 4                                  | Phíri "DB.V        | Librarian                  |

Source: University of Malawi. 2008. Library staff http://www.bunda.unima.mw/Lib/Library.htm

TABLE 39: UNIVERSITY OF MZUZU LIBRARY STAFF

| UNIVERSITY OF MZUZU LIBRARY STAFF |               |                            |
|-----------------------------------|---------------|----------------------------|
| NO                                | NAME OF STAFF | QUALIFICATIONS/DESIGNATION |
| 1                                 | Uta J.J.      | University librarian       |
| 2                                 | Sachs, I      | Readers services           |
| 3                                 | Malemia,L.    | Periodicals, e-journal     |
| 4                                 | Chaputula, A. | Acqusition                 |
| 5                                 | Majawa, F     | Technical services         |
| 6                                 | Dube G.       | Children's library         |
| 7                                 | Komatsu,R.    | ICT System engineer        |
|                                   | I             | I                          |

Source: University of Mzuzu. 2008. Library staff http://www.mzuni.ac.mw/library.htm

TABLE 40: NORTH-WEST UNIVERSITY LIBRARY STAFF

| NORT | NORTH-WEST UNIVERSITY LIBRARY STAFF |                                    |  |
|------|-------------------------------------|------------------------------------|--|
| NO   | NAME OF STAFF                       | QUALIFICATIONS/DESIGNATION         |  |
| 1    | Tom Larney                          | Director                           |  |
| 2    | Hester Spoelstra                    | HOD loan services                  |  |
| 3    | Jubrie Oosthuizen                   | HOD acquisition & processing       |  |
| 4    | Louise Vos                          | HOD information services           |  |
| 5    | Corrie Breitenbach                  | HOD information systems            |  |
| 6    | Henriette Groenewald                | HOD administration                 |  |
| 7    | Ester Venter                        | Librarian                          |  |
| 8    | Bucwa Yvonne                        | Information service librarian      |  |
| 9    | Erasmus Jannie P.C.                 | Loan services librarian            |  |
| 10   | Grobler Annatjie                    | Course reserve librarian           |  |
| 11   | Harmse Madri                        | Student help librarian             |  |
| 12   | Lotter Marthie P.                   | Acquisition & processing librarian |  |
| 13   | Van Belkum Martea                   | Acquisition & processing librarian |  |
| 14   | Venter E.J. Nestus                  | Information service librarian      |  |
| 15   | Gerda Van Rooyen                    | Information librarian              |  |
| 16   | Malie Smit                          | Information librarian              |  |
| 17   | A. C. Janie Lamprecht               | Information librarian              |  |
| 18   | Anriette Pretorius                  | Information librarian              |  |
| 19   | Ursula Franke                       | Information librarian              |  |

Source: University of North – West. 2008. Library stafft http://www.puk.ac.za/biblioteek/aboutman\_e.html

TABLE 41: UNIVERSITY OF LIMPOPO LIBRARY STAFF

| UNIVERSITY OF LIMPOPO LIBRARY STAFF |                  |                                 |
|-------------------------------------|------------------|---------------------------------|
| NO                                  | NAME OF STAFF    | QUALIFICATIONS/DESIGNATION      |
| 1                                   | Chuene M.M.      | Acting library director         |
| 2                                   | F.T.M. Hlatywayo | Section head cataloguing        |
| 3                                   | Mathopa C.       | Librarian                       |
| 4                                   | Maphopha K. A.   | Librarian                       |
| 4                                   | E.M. Josias      | Subject cataloguer              |
| 5                                   | S.S.Sehlodimelo  | Education librarian             |
| 6                                   | Shokane J.K.     | Health librarian                |
| 7                                   | Bopape S.T.      | Law librarian                   |
| 8                                   | E. L. Mothapo    | Section head readers services   |
| 9                                   | L. P. Thosago    | Circulation librarian           |
| 10                                  | Ramoshai M. E.   | Library administrator           |
| 11                                  | Maluleko S.T.    | Assistant librarian             |
| 12                                  | Ramoshai M.E.    | Library administrator assistant |
| 13                                  | Ngobeni T.F.     | Assistant librarian             |

Source: University of Limpopo. 2008. Library staff http://www.ul.ac.za/Library/lib-stafflist.htm

TABLE 42: SOKOINE NATIONAL AGRICULTURAL LIBRARY STAFF

| SOKOINE NATIONAL AGRICULTURAL LIBRARY(SNAL) STAFF |  |  |
|---|--|--|
| NAME OF STAFF                                     | QUALIFICATIONS/DESIGNATION   |  |
| F.W. Dulle  | Library director   |  |
| R.T. Mulimila                                     | Senior librarian Assoc. director   |  |
| A.M. Chailla                                      | Senior librarian readers services  |  |
| D.S. Matovelo                                     | Senior librarian   |  |
| M.J.F.Lwehabura                                   | Senior librarian   |  |
| L,S.P.Busagala                                    | Assistant librarian  |  |
| W. Leonard  | HOD librarian SNAL-SMC   |  |
| A. S. Sife  | HOD librarian ICT  |  |
| E. T. Lwoga                                       | Assistant librarian  |  |
| G. Emanuel  | Assistant librarian  |  |
| A. W. Malekani                                    | Assistant librarian trainee  |  |
| C. Angello  | Assistant librarian trainee  |  |
| P. Nyinondi                                       | Assistant librarian trainee  |  |
| P. Joram  | Assistant librarian trainee  |  |
|   | NAME OF STAFF  F.W. Dulle  R.T. Mulimila  A.M. Chailla  D.S. Matovelo  M.J.F.Lwehabura  L.S.P.Busagala  W. Leonard  A. S. Sife  E. T. Lwoga  G. Emanuel  A. W. Malekani  C. Angello  P. Nyinondi |  |

Source: Sokoine National Agricultural University. 2008. Library staff http://www.suanet.ac.tz/lib/academstaff.html

TABLE 43: COPPERBELT UNIVERSITY LIBRARY STAFF

| COP | COPPERBELT UNIVERSITY LIBRARY STAFF |                            |  |
|-----|-------------------------------------|----------------------------|--|
| NO. | NAME OF STAFF                       | QUALIFICATIONS/DESIGNATION |  |
| 1   | Lungu C. B. M.                      | University librarian       |  |
| 2   | Mbewe G. L.                         | Senior sub librarian       |  |
| 3   | Chitwamali E. M.                    | Sub librarian 1            |  |
| 4   | Nkhoma B. P.                        | Sub librarian 1            |  |
| 5   | Mwamba A.                           | Sub librarian 1            |  |
| 6   | Banda C.                            | Sub librarian 1            |  |
| 7   | Chiinza N. C.                       | Assistant librarian        |  |
| 8   | Maambo C.                           | Assistant librarian        |  |
| 9   | Muunga A.                           | Assistant librarian        |  |
| 10  | Chipembele M.                       | Assistant librarian        |  |

Source: Copperbelt University. 2008. Library staff http://www.cbu.edu.zm/units/lib/lib staff.asp

TABLE 44: UNIVERSITY OF KWA ZULU – NATAL LIBRARY STAFF

| NO | NAME OF STAFF     | QUALIFICATIONS/DESIGNATION                                  |
|----|-------------------|---|
| 1  | Lindiwe Soyizwapi | Subject librarian (Accounting and auditing)                 |
| 2  | Ashika Ramlakhan  | Librarian   |
| 3  | Lynne Phipson     | Subject librarian (Agricultural economics)                  |
| 4  | Rebecca Msomi     | Subject librarian (Antropology)                             |
| 5  | Tusiwe Hadebe     | Subject librarian (Applied languages)                       |
| 6  | Tim Reddy         | Subject librarian (Architecture, planning & housing)        |
| 7  | Ashika Pramial    | Subject librarian (Audiology)                               |
| 8  | Browyn Jenkins    | Subject librarian (Audiology)                               |
| 9  | Richard Beharilal | Subject librarian (Biochemistry)                            |
| 10 | Rosemary Khun     | Subject librarian (Chemistry)                               |
| 11 | Pravina Laljeeth  | Librarian   |
| 12 | Faith Bhengu      | Subject librarian (Classiscs)                               |
| 13 | Anita Kromberg    | Librarian Pietermaritzburg                                  |
| 14 | Omesh Jagamath    | Subject librarian (Criminology)                             |
| 15 | Margaret Bass     | Subject librarian (Culture, communication, & media studies) |
| 16 | Nomonde Maqubela  | Subject librarian (Education)                               |
| 17 | Avenal Finalyson  | Subject librarian (Engineering)                             |
| 18 | William Dansoh    | Subject librarian (Life Science)                            |
| 19 | Zenkosi Majola    | Librarian Business School                                   |
| 20 | Reggie Raju       | Subject librarian (law)                                     |
| 21 | Rani Moodly       | Subject librarian (Medical sciences)                        |
| 22 | Sara Mitha        | Subject librarian (Medical science)                         |

| 23 | Heather Gale       | Subject librarian (Music)      |
|----|--------------------|--------------------------------|
| 24 | Catherine Dubbeld  | Subject librarian (Nursing)    |
| 25 | Phumla Luhabe      | Subject librarian (Optometry)  |
| 26 | Renee Damonse      | Librarian Pietermaritzburg     |
| 27 | Mark Moonsamy      | Principal library officer      |
| 28 | Rari Govender      | Senior library officer         |
| 29 | Segree Reddy       | Senior library officer         |
| 30 | Caroline Naidoo    | Senior library officer         |
| 31 | Dees Hurrispardsad | Principal library officer      |
| 32 | S. Majola          | Library officer                |
| 33 | Abdul Ahmed        | Senior library officer         |
| 34 | Sira Moonsamy      | Senior librarian               |
| 35 | Krish Pillay       | Senior librarian               |
| 36 | Kenny Moodly       | Senior library officer         |
| 37 | Sanjeeth Munshi    | Principal library officer      |
| 38 | Roy Dorasamy       | Senior library officer         |
| 39 | Thiru Munsamy      | Senior library officer         |
| 40 | Juggie Authar      | Acting director                |
| 41 | John Sydney        | Senior librarian               |
| 42 | Reddy Tim          | Branch librarian               |
| 43 | Shongwe Bongiwe    | IT Consultant                  |
| 44 | Tait Jill          | Head technical service         |
| 45 | Buchanan Nora      | Library Director               |
| 46 | Gumede Sibusisio   | Reference collection           |
| 47 | Kercival Claudette | Administrative library officer |
| 48 | Naidoo Sherwin     | Administrative library officer |
| 49 | Naidoo Susheila    | Cataloguer                     |
| 50 | Grieve Helen       | Cataloguer                     |
|    | <u> </u>           | <u> </u>                       |

Source: .University of Kwa Zulu Natal 2008. Library staff http://library.ukzn.ac.za/SubjectLibrarians?72.aspx

TABLE 45: MANGOSUTHU TECHNIKON LIBRARY STAFF

| MAN | MANGOSUTHU TECHNIKON LIBRARY STAFF |                            |  |
|-----|------------------------------------|----------------------------|--|
| NO. | NAME OF STAFF                      | QUALIFICATIONS/DESIGNATION |  |
| 1   | Mrs Ndaki                          | Library Director           |  |
| 2   | Dudu Radebe                        | Circulation librarian      |  |
| 3   | Patience Ntuli                     | Circulation librarian      |  |
| 4   | Pinky Mkhwanazi                    | System librarian           |  |
| 5   | Magubane Senamile                  | Subject librarian          |  |
| 6   | Magwaza Elizabeth                  | Subject librarian          |  |
| 7   | Muyandla Maso                      | Subject librarian          |  |
| 8   | Mallalose Nokuthula                | Subject librarian          |  |
| 9   | Mkhise Tholakele                   | Subject librarian          |  |
| 10  | Mqadi Daphney                      | Subject librarian          |  |
| 11  | Msimango Hoekie                    | Subject librarian          |  |
| 12  | Mthembu Shepherd                   | Subject librarian          |  |
| 13  | Naidu Yegis                        | Subject librarian          |  |
| 14  | Nawane Siyabonga                   | Subject librarian          |  |
| 15  | Ndaba Dalton                       | Subject librarian          |  |
| 16  | Nduki Lindiwe                      | Subject librarian          |  |
| 17  | Ndlovu Nokuthula                   | Subject librarian          |  |
| 18  | Ngubane Noel                       | Subject librarian          |  |
| 19  | Nzama Linda                        | Subject librarian          |  |
| 20  | RathepebLungile                    | Subject librarian          |  |
| 21  | Shezi Thuli                        | Subject librarian          |  |
| 22  | Zimu Nomusa                        | Subject librarian          |  |
| 23  | Zulu Freeman                       | Subject librarian          |  |

 $\textbf{Source: } \underline{\textbf{Mangosuthu Technikon. 2008. } \underline{\textbf{Library contact } \underline{\textbf{http://www.mantec.ac.za/library/contact.htm}}$ 

TABLE 46: UNIVERSITY OF LESOTHO LIBRARY STAFF

| N0. | NAME OF STAFF         | QUALIFICATIONS/DESIGNATION       |
|-----|-----------------------|----------------------------------|
| 1   | Moshoeshoe-Chadzingwa | Acting university librarian      |
| 2   | S.M.Mohai             | Head technical service           |
| 3   | A.K.Kakoma            | Client access extension services |
| 4   | J.S.Molapo            | Archives                         |

| 5  | M. Lephoto   | Librarians          |
|----|--------------|---------------------|
| 6  | M.A.N.Mohapi | Librarian           |
| 7  | M.Mukela     | Librarian           |
| 8  | I.M.Phoofolo | Librarian           |
| 9  | L.Sejane     | Librarian           |
| 10 | M.L.Makara   | Assistant librarian |
| 11 | W. Mokotjo   | Assistant librarian |
| 12 | L.Mariti     | Assistant librarian |
| 13 | C.K.Qobo     | Archivist           |
| 14 | J.N.Tsoenyo  | Assistant librarian |
| 15 | E.R.P.Sgwane | Assistant librarian |
| 16 | N.Taole      | Senior librarian    |
| 17 | P.Letsolo    | Librarian           |

Source: University of Lesotho. 2008. Library staff http://www.nul.ls/library/default.htm

TABLE 47: UNIVERSITY OF ZIMBABWE LIBRARY STAFF

| UNIVERSITY OF ZIMBABWE LIBRARY STAFF |                 |                                       |
|--------------------------------------|-----------------|---------------------------------------|
| NO                                   | NAME OF STAFF   | QUALIFICATIONS/DESIGNATION            |
| 1                                    | Chikonzo, A.    | Acting librarian                      |
| 2                                    | Gurira, J.      | Deputy librarian                      |
| 3                                    | Namtoro, J.     | Head reader services                  |
| 4                                    | Moyo,S.         | Circulation librarian                 |
| 5                                    | Hadebe, Z.      | Agriculture and engineering librarian |
| 6                                    | Muganhiri,P.    | Commerce librarian                    |
| 7                                    | Mwatsiya, P.    | Arts librarian                        |
| 8                                    | Tasikana ,E.    | Serial studies librarian              |
| 9                                    | Chicheroo, G.   | Science librarian                     |
| 10                                   | Tavera, S.      | Special collection librarian          |
| 11                                   | Tapfuma, M.     | Government publication librarian      |
| 12                                   | Mbirizah.J.C.   | Head bibliographic services           |
| 13                                   | Chimuka, Y.     | Acquisition librarian                 |
| 14                                   | Patsanza, J.    | Office and information manager        |
| 15                                   | Chikombah, R.T. | Education librarian                   |
| 16                                   | Sagonda.A.      | Map librarian                         |

| 17 | Mlambo, E.    | Librarian                        |
|----|---------------|----------------------------------|
| 18 | Sibanda, M.   | Law librarian                    |
| 19 | Marufu, J.    | Vetinary librarian               |
| 20 | Nyaruwata, N. | Chief technician bindery section |
| 21 | Mutsikiwa, A. | Acting ICT manager               |
| 22 | Mukwenha, P.  | Analyst programmer               |

Source: University of Zimbabwe Zimbabwe library.2008.library staff

http://www.uz.ac.zw/library/staff/librarians.html

TABLE 48: ZIMBABWE OPEN UNIVERSITY STAFF

| ZIM | ZIMBABWE OPEN UNIVERSITY LIBRARY |                             |  |
|-----|----------------------------------|-----------------------------|--|
| NO. | NAME OF STAFF                    | QUALIFICATTIONS/DESIGNATION |  |
| 1   | Maenzanise J. L.                 | Director                    |  |
| 2   | Makurumure A.                    | Manager                     |  |

Source: Zimbabwe open University. 2008. Zimbabwe Library: library staff

http://www.zou.ac.zw/service/library/staff/staff.htm#

TABLE 49: MIDLANDS STATE UNIVERSITY STAFF

| MIDLANDS STATE UNIVERSITY LIBRARY |               |                            |
|-----------------------------------|---------------|----------------------------|
| NO                                | NAME OF STAFF | QUALIFICATIONS/DESIGNATION |
| 1                                 | Macheka N.P.  | Acting librarian           |
| 2                                 | Chitsamatanga | Sub librarian              |
| 3                                 | Tokwe T.      | Head special collection    |
| 4                                 | Makandwa A.   | Head reader services       |
| 5                                 | Tsuro T.      | Head law library           |
| 6                                 | Makeke E.     | Head E-Resource            |
| 7                                 | Nyamubarwa W. | Head acquisition           |
| 8                                 | Masimbiti R.  | Head Batani library        |
| 9                                 | Movo T.       | Head Bindery               |

Source: Midlands. 2008 State University. Library staff http://www.msu.ac.zw/libraries/staffdirectory.htm

TABLE 50: UNIVERSITY OF KHARTOUM LIBRARY STAFF

| UNIVERSITY OF KHARTOUM |                         |                                  |  |
|------------------------|-------------------------|----------------------------------|--|
| NO.                    | NAME OF STAFF           | QUALIFICATIONS/DESIGNATION       |  |
| 1                      | Hassan Abdalla Almngory | Librarian                        |  |
| 2                      | Ahmed Hassan Garinat    | Deputy librarian                 |  |
| 3                      | Abdel Karim Hassan      | Deputy librarian digital library |  |

Source: University of Khartoum. 2008. Library staff <a href="http://www.uofk.edu/index.php?id=28">http://www.uofk.edu/index.php?id=28</a>

TABLE 51: ALEMAYA UNIVERSITY OF AGRICULTURE LIBRARY STAFF

| ALEMAYA UNIVERSITY OF AGRICULTURE LIBRARY STAFF |  |                            |  |
|---|--|----------------------------|--|
| NO  | NAME OF STAFF                                | QUALIFICATIONS/DESIGNATION |  |
| 1   | Mammo, Y.                                    | Head librarian             |  |
| 2   | Mhadi Ahmed Head Alemaya agriculture library |                            |  |

Source: Alemaya University of Agriculture. 2008. Library staff

http://www.abyssiniacybergateway.net/ethiopia/aau/alemaya.html

TABLE 53: UNIVERSITY OF FREE STATE LIBRARY STAFF

| UNIVERSITY OF FREE STATE LIBRARY STAFF |   |   |  |  |
|--|---|---|--|--|
| NO                                     | NO NAME OF STAFF QUALIFICATIONS/DESIGNATION |   |  |  |
| 1                                      | Namponya C.R.                               | University librarian                          |  |  |
| 2                                      | Arko-Cobbah                                 | Deputy university lirarian                    |  |  |
| 3                                      | Ronet Vrey                                  | Librarian Afro Asiatic studies & language     |  |  |
| 4                                      | Annemarie du Preez                          | Librarian agricultural economics              |  |  |
| 5                                      | Rene du Plessis                             | Librarian architecture                        |  |  |
| 6                                      | Senovia Welma                               | Librarian communication & information studies |  |  |
| 7                                      | Mariechen Jansen                            | Librarian economics & management science      |  |  |
| 8                                      | Moipone Goliath                             | Librarian education                           |  |  |
| 9                                      | Du Plessis                                  | Librarian geograpgy                           |  |  |
| 10                                     | Radulene le Grange                          | Librarian health science                      |  |  |
| 11                                     | Elma Van Der Merwe                          | Librarian health science                      |  |  |
| 12                                     | Ria Van der Voort                           | Librarian health science                      |  |  |
| 13                                     | Hesma Van Tonder                            | Librarian law                                 |  |  |
| 14                                     | Eene du Plessis                             | Librarian political science                   |  |  |
| 15                                     | Senovia Welma                               | Librarian social work                         |  |  |

SOURCE:: University of Free State.2008. Library staff

http://www.uovs.ac.za/faculties/content.php?id=3152&FCode=12&DCode=4

TABLE 54: OPEN UNIVERSITY OF TANZANIA LIBRARY STAFF

| NO. | NAME OF STAFF    | DESIGNATION/QUALIFICATION   |  |  |
|-----|------------------|-----------------------------|--|--|
| 1   | Samzugi A.S.     | University librarian        |  |  |
| 2   | Aristarie Maro   | Deputy university librarian |  |  |
| 3   | Mbana Rajabu     | Librarian                   |  |  |
| 4   | Sefu Hamis       | Librarian                   |  |  |
| 5   | Rehema Machimo   | Librarian                   |  |  |
| 6   | Restituta Kisamo | Librarian                   |  |  |
| 7   | Habib Vicent     | Librarian                   |  |  |
| 8   | Salama Musa      | Librarian                   |  |  |

Source: Open University of Tanzania 2008. Library staff http://www.out.ac.tz/Library/librarystaff.htm

TABLE 55: EGERTON UNIVERSITY LIBRARY STAFF

| EGERTON UNIVERSITY LIBRARY STAFF |               |   |  |  |
|----------------------------------|---------------|---|--|--|
| NO.                              | NAME OF STAFF | DESIGNATION/QUALIFICATION               |  |  |
| 1                                | Mwanzilo P.K. | Head information resource and packaging |  |  |
| 2                                | Nyamboga C.M  | Librarian                               |  |  |

Source: Ebscohost (LIST

TABLE 56: KENYATTA UNIVERSITY LIBRARY STAFF

| KEN | KENYATTA UNIVERSITY LIBRARY STAFF |                           |  |
|-----|-----------------------------------|---------------------------|--|
| NO. | NAME OF STAFF                     | DESIGNATION/QUALIFICATION |  |
| 1   | Gakobo                            | Acting librarian          |  |
| 2   | Muiruri                           | Librarian                 |  |
| 3   | Mbae                              | Librarian social sciences |  |
| 4   | Mbua                              | Head Parklands library    |  |
| 5   | Kimani G.                         | Acquisition librarian     |  |
| 6   | Kanuri                            | Librarian Parklands       |  |
| 7   | Wambua                            | Librarian                 |  |

Source: Joyce Kinyanjui

TABLE 58: SOMALIA NATIONAL UNIVERSITY LIBRARY STAFF

| SOMALIA NATIONAL UNIVERSITY LIBRARY STAFF |  |  |  |  |   |
|---|--|--|--|--|---|
|   |  |  |  |  |   |
|   |  |  |  |  | i |

Source:Somalia