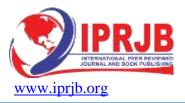


Security Control and Disaster Preparedness As Panacea for Preservation and Conservation Practices In University Libraries in South-West, Nigeria

Osunride, A.A. and Adetunla, B.O.G.





Security Control and Disaster Preparedness As Panacea for Preservation and Conservation Practices In University Libraries in South-West, Nigeria

Osunride, A.A. (PhD)

Ekiti state University Library

Adetunla, B.O.G.
Ekiti state University library sirbog@yahoo.com

Abstract

Purpose: Deterioration of library materials is one of the basic challenges confronting the libraries which have become a global phenomenon. It becomes difficult to replace materials that are stolen, mutilated or plagued by flood or fire at this period of economic recession coupled with the dwindling budgetary allocation to the library, libraries should put all necessary measures in place to avoid potential risk. This study investigates security control and disaster preparedness as panacea for preservation and conservation practices in university libraries in South-west, Nigeria.

Methodology: The study adopted a descriptive survey design. A total enumeration technique was used for selecting 308 respondents for the study. Questionnaire was used for data collection and was analyzed using descriptive statistics.

Results: The findings revealed that the traditional security method of library porter is more used than the electronic security system. Fire extinguisher and emergency exit are the major disaster plans on ground. The finding further revealed that the library personnel have adequate training in security and disaster management. The study concluded that the libraries should gear towards proper security and disaster preparedness measure to guide against disaster occurrence. **Policy recommendation:** Therefore, the study recommended that libraries should map out a comprehensive insurance scheme with any of the reputable insurance broker to reduce possible risk and embrace electronic security measures for effectiveness against theft, mutilation and other vices.

Keywords: preservation, conservation, libraries, universities. South-west



1.0 INTRODUCTION

The library as a very germane part of any educational institution which is charged with the responsibility of disseminating knowledge to the user community without any discrimination. The holdings of the libraries are evidences of human development which is a reflection of the worth of the mother institution. According to Aina (2004), the library contains information required by different users and this information appears in a variety of formats such as books, serials, maps, compact discs etc. These formats are collectively called information carriers and can be classified into two types namely: print and non-print library materials.

Deterioration of these materials is one of the basic challenges facing the libraries which have become a global phenomenon to which libraries must aggressively respond if the mission of meeting the information needs of their patrons would be achievable in this era of dwindling budgetary allocation to libraries. One of the greatest commitments of the libraries is to link the user to the source of information. Proper dissemination of library materials is only possible when the documents are in good and usable condition. Preserving intellectual and cultural heritage of the library from deterioration becomes the heartbeat of the libraries.

Some of the causes of deterioration in libraries are wear and tear, shrinkage, cracks, brittleness, warping, bioinfestation, discoloration, abrasion, hole, and dust and dirt accumulation. External causes of deterioration of collections include poor handling or storage, theft or vandalism, fire and flood, pests, pollution, light and incorrect temperature and relative humidity. The greatest causes of colossal loss to library materials are natural disaster (fire, flood, earthquake etc) and human factor (theft, vandalism, mutilation etc) (Walker, 2013).

Jordan (2003) describes preservation and conservation as an umbrella term for an array of activities, principles, practices, and organizations that ensure the usability, longevity, and accessibility of recorded knowledge. These activities include environmental monitoring, security control, care and handling of materials and disaster preparedness and recovery.

Disaster plan and security measure are essential element of preventive programme in libraries. . Disaster planning is a set of rehearsed actions which minimizes disaster effect of whatever size in the library and will assist in restoring the library and its collections to a useable condition in as short a time as possible. Some of these disaster and security backup plans include: Regular training on disaster planning, Installation of Smoke detectors, Closed Circuit Camera,

Installation of Fire detectors, RFID, Fire extinguishers, 3M security gate, Conduct of regular test on the library building, Provision of emergency exits etc (Alegbeleye, 1993; osayande 2011).

Isaa et.al (2012) pointed out that even though disaster preparedness plan is very essential, it is non existing in Nigerian libraries and The significance of disaster planning in libraries has been extensively emphasized in the works of Harvey (1993), Akussa and Fosu (2001), Odogwu(2008), Sawant (2014), Adekannbi and Wahab (2015). It is against this backdrop that this study investigates security control and disaster preparedness as panacea for preservation and conservation practices in university libraries in south-west, Nigeria.



1.1 Objective of the Study

The general objective of this study is to investigate the security control and disaster preparedness as panacea for preservation and conservation practices of university libraries in South-West, Nigeria.

The specific objectives are to:

- i. To establish the library security measures in place in libraries in the selected university libraries?
- ii. To ascertain the level of disaster preparedness of libraries in the selected university libraries?
- iii. To find out the level of training received by library personnel on security control and disaster preparedness in the selected university libraries?

1.2 Research Ouestions

This study provides answer to the following research questions:

- i. What are the library security measures in place in libraries in the selected university libraries?
- ii. What is the level of disaster preparedness of libraries in the selected university libraries?
- iii. What is the level of training received by library personnel on security control and disaster preparedness in the selected university libraries?

2.0 LITERATURE REVIEW

In any educational institution, the library is charged with the responsibility of keeping the heritage of such institution. For continuing access to the priceless heritage of the library, it must be preserved. One of the major functions of the library is preservation and conservation. Library materials are hygroscopic as they are reactive to moisture, relative humidity whether too high or too low have a number of adverse effects on collections. The expansion and contraction in response to fluctuations cycling in relative humidity causes changes in dimensional and mechanical properties of the materials which accelerates the natural degradation processes. The physical deterioration of information resources, especially paper-based materials has been attributed to factors such as: level of usage, inherent chemical instability, external environmental factors, human agents, chemical agents, biological agents and natural agents (Popoola, 2003; Alegbeleye, 2008). Deterioration may set in through the natural ageing process or as a result of other factors such as chemical composition of the media of information, biological agents, environmental factors, physical agents and improper handling. Also, fire and flood are the greatest cause of degradation to library material (Akussah, 1994, Alegbeleye, 1996; Jodan, 2003). Preservation is defined in the IFLA Principles for the Care and Handling of Library Material to include "all the managerial and financial considerations including storage and accommodation provisions, staffing levels, policies, techniques, and methods involved in preserving library and archival material and the information contained in them" (IFLA, 2010). Sewant (2014) also defined preservation as activities associated with maintainace of library and archival materials for use either in their original physical form or in some other usable ways. He further re-iterated the several techniques used in preservation and



conservation of library materials to include binding, encapsulation, digitization, de-acidification, pest control, environmental control. Khayundi's (1995) study in eastern and southern Africa, excluding South Africa and Namibia, sought information on stock, buildings, environmental control, preservation facilities, personnel, handling and budgetary provisions. The findings of this study revealed that most collections were not housed in purpose-built buildings and that very few countries had environmental control systems. Though most libraries and archival institutions had preservation facilities such as a bindery, a restoration workshop and photographic laboratory, there was an acute shortage of trained staff in the field of preservation and conservation. Furthermore, the study revealed that mishandling of materials was rife; preservation was given a low budgetary priority; most countries had no policy documents spelling out preservation policies; and lack relevant literature as well as denied staff running preservation programmes the opportunity to update their skills and knowledge Ovowoh (2010) carried out a study to assess the preservation and conservation programmes and activities in libraries in Nigeria. Findings from their study revealed that there was no written policy in the higher education institutions studied, and decisions on preservation and conservation were arbitrary and inconsistent. Alegbeleye (2006) opined that to savage present preservation issues plaguing the libraries, a proper disaster preparedness backup, recovery plans, security measure and environmental monitoring systems must be put in place as key techniques of preservation and conservation practices.

One of the greatest challenges plaguing the library overtime has been security issues such as stealing of library materials, tearing off pages of textbooks, ink marking of textbooks etc. The security of the huge investments made by the library is a sine qua non to the success of the libraries' effort to remain relevant and providing good information service has been the heartbeat of the library (Osayande 2011). Akinfolarin (1992) opined that one of the greatest headaches of librarians since inception is how to ensure the security of library materials, especially against theft, intentional mis-shelving of books, mutilation etc. Security control against these vices becomes essential and according to McComb(2004), it should be done as seamlessly as possible, without any embarrassment and interference with the library's objective of providing a userfriendly environment. Osayande (2011) re-iterates that the traditional ways of manually checking patrons' bags are both inefficient and not user-friendly. He however suggested that a better way to deal with security in academic libraries is to embrace the electronic security systems. Electronic security systems are devices that are used with the aid of electrical apparatus to secure library materials. They help libraries to control, minimize or avoid library materials against theft and unethical losses (Rajendran & Rathinasabapathy, 2007). Examples of electronic security systems installed in libraries are electronic surveillance camera (CCTV), 3M electronic security systems (electronic security gates), radio frequency identification (RFID) system, perimeter alarm system, etc. a proper security measure can help control these unethical practices in libraries. Greenwood and Mckean (1985) reported that after installing an electronic security system at the

University of Kentucky Library, book loss rates had been decreased. Some major electronic security systems that were useful to the library include: electronic surveillance cameras (Closed Circuit Television-CCTV), 3M library security system (electronic gates), Radio Frequency Identification (RFID) system, perimeter alarm system, movement detectors, etc.



More so, another great cause of resources loss in the library is disaster. Alegbeleye (1993) defined disaster as an event that "results in the sudden removal of records and documents from accessibility and use"; stating further that the disaster can be regarded as an occurrence that temporarily or permanently render information contained in document inaccessible. A disaster can be seen as an overwhelming ecological disruption occurring on scale sufficient to require outside assistance. Indeed, disasters are exceptional events which suddenly kill or injure large number of people and damage properties. Looking at disaster in a generic information management context, it can be viewed as any incident which threatens human safety; and/or damages or threatens to damage a library's buildings collection (or items therein), equipment and system. There are varied causes and for that matter classification of disaster. Alegbeleye (1993) also agreed that the simplest and most common are the grouping into natural and man-made categories. They stated further that natural disasters are happenings, over which man has very little or no control and are generally initiated by such events as floods, earthquakes, storms, cyclones and hurricanes; among others. Maninduced disasters include war-time destruction, bombings, rioting, malicious vandalism, arson, negligence, power surges and failures. Irrespective of sources of disasters, the destruction and devastation they cause or threaten to cause to library resources and the provision of library services remain a critical factor in the management of libraries. He also mentioned two commonly recurring causes of library disasters to include floods and fires. Harvey (1993) opined that the best protection against disaster is to minimize the likelihood of them happening. He suggested that disaster planning should be a must to all libraries. He further defined Disaster planning as a set of rehearsed actions which minimise the use disaster effect, of whatever size in the library and will assist in restoring the library and its collections to a useable condition in as short a time as possible. This restoration plans to include: smoke detector installation, fire extinguisher, emergency exit, constitution of rescue team, training etc. A disaster plan, according to Lyall (1993), is a document which describes the procedures devised to prevent and prepare for disasters, and those proposed to respond to and recover from disasters when they occur. Newey, Lepschi & Croft (2008) identified the objectives of the disaster plan as including to:

- 1. minimize damage to the collections;
- 2. recover and repair any damaged collection materials; and
- 3. Return the library and archival services to normal.

Ngulube (2005) stated that disaster preparedness and security are vital to the preservation and protection of records and library. The significance of disaster planning in libraries and archives is extensively discussed by Harvey (1993), Alegbeleye (1993), Akussa and Fosu (2001), Odogwu(2008).

3.0 METHODOLOGY

This study adopted survey research design. This design allowed for data to be collected. The population for this study cut across all categories of personnel in the academic libraries in the South-West, Nigeria. A total of (13) public and (10) private university libraries in South-West Nigeria of 468 library staff was used as the population of this study. Table 1 shows the list of academic libraries in South-West, Nigeria.



S/N	Public University Libraries	Private University Libraries			
1	Kenneth Dike Library, University of Ibadan, Ibadan.	Caleb University			
2	Fatiu Akesode Library, Lagos State University, Ojo.	Pan African University			
3	University of Lagos Library, Lagos.	Laz Oti, Babcock University			
4	University Library, Federal University of Technology, Akure	Redeemer University			
5	Ladoke Akintola University of Technology Library, Ogbomosho	Achiever University			
6	Ekiti State University Library, Ado-Ekiti.	Wesley University			
7	Nimbe Adedipe Library, University of Agriculture, Abeokuta	Joseph Ayo Babalola University			
8	Osun State University (UNIOSUN)Library, Osogbo	Oduduwa University			
9	Tai Solarin University of Education, Ijebu-Ode Library	Ajai Crowder University			
10	Ondo State University of Science and Tech., Okitipupa	Lead city university			
11	Hezekiah Oluwasanmi Libray, Obafemi Awolowo	Afe BabalolaUniversity			
	University				
12	Adekunle Ajasin University Library, Akungba Akoko	ElizadeUniversity			
13	Federal University Oye-Ekiti Library, Oye-Ekiti	Adeleke University			
	Total	Total			

A structured questionnaire was designed and administered to the librarians and paraprofessionals in the sampled libraries. A total enumiration technique was used to select 308 library workers with over ten (10) years working experience as the respondents. A library staff with over ten (10) years working experience would have been involved in preservation and conservation process at one point or the other. 308 questionnaires were administered but only 292 (82%) questionnaires was returned and found useful for data analysis. Data analysis was done using relevant descriptive statistics, specifically, percentage distribution and frequency counts, means and standard deviation were generated on most of the items in the questionnaire.



4.0 RESULTS AND DISCUSSION OF FINDINGS

What are the library security measures in place and the level of disaster preparedness of the studied libraries?

Table 2: Library security and disaster preparedness of the studied libraries.

Security Measures		A	D	SD	Not Sure	Mean	Std. Deviation
Manual Security System							
Use of Library Porter		14.1		3.1	1.1	4.7	0.73
Human security guards	73.8	25.8	0.4			4.7	0.52
Use of security dog		5.7	18.6	31.6	16.6	3.0	0.51
Electronic Security System							
Electronic security system		28.7	11.5	6.6	11.9	3.8	0.411
Closed circuit television cameras (CCTV)		26.7	16.2	2.4	11.7	3.9	0.311
Intruder alarm system		19.8	25.7	5.1	13.9	3.6	0.421
Security doors	39.7	26.5	14.5	6.4	12.8	3.7	0.413
Disaster Preparedness							
Constitution of disaster rescue team		40.3	13.6	6.6	18.5	3.4	0.40
Regular training on disaster planning	26.9	39.2	7.3	8.2	18.4	3.5	0.43
Installation of Smoke detectors	30.1	30.5	10.4	9.6	19.3	3.4	0.54
Installation of Fire detectors		22.9	7.1	10.3	10.3	3.9	0.47
Fire extinguishers	66.4	25.0	1.2	4.3	3.1	4.5	0.06
Regular mock disaster respons programme by disaster rescue team	e 27.1	34.0	11.3	8.1	19.4	3.4	0.53
Conduct of regular test on the library building		32.2	14.4	6.4	18.4	3.5	0.44
Provision of emergency exits	47.2	34.7	5.6	6.0	6.5	4.1	0.211

Table 2 shows the security measures in place at the studied universities, the results shows that the manual security system is the most used measure as against the electronic security system. The library porter and human security guards are the most used with a mean score of 4.7 respectively and low use of security dogs. The study also revealed that Closed circuit television cameras (CCTV) is the most used electronic security system with a mean score of 3.9 followed by security doors and intruder alarm system with a mean score of 3.7 and 3.6 respectively. The finding of this



study is in conformity with the previous study of Osanyade (2011) that libraries adopt traditional measures than the electronic measure. He further opined that The traditional ways of manually checking patrons' bags are both inefficient and not user-friendly. A better way to deal with security issues in academic libraries is to embrace the electronic security systems.

That will better ensure an effective security of library materials from theft, mutilation, or other forms of loses.

Also, table 2 has shown the disaster preparedness of the studied libraries, the major backup plans put in place by the studied libraries are fire extinguishers and provision of emergency exits with a mean score of 4.5 and 4.1 respectively while the other recovery plans are neglected. The libraries do not have an effective constituted rescue team who will conduct regular check on library building and organize mock disaster programs. The findings of this study agrees with the previous findings of Abdulwahab et.al (2012)

What is the level of training received by library personnel on disaster preparedness and security control in the library under study?

Table 3: Training received by library personnel on disaster preparedness and security

Training	SA	A	D	SD	Not Sure	Mean	Std. Deviation
control							
On the job Training	62.3	31.2	4.2	2.3	-	4.5	0.7
Conferences and Seminal attendance	59.2	33.1	4.6	2.3	0.8	4.5	0.8
In- house training	48.7	40.6	6.9	3.4	0.4	4.3	0.8
Training on disaster management	45.0	39.1	1.9	7.4	6.6	4.1	1.2
Training on preservation program	36.3	49.2	1.6	8.6	4.3	4.0	1.1
Training on digitization and automation	49.4	42.8	0.8	6.9	0.00	4.5	1.8

Table 3 reveals a high level of training on security measures and disaster preparedness with the least mean scores of 4.0. Trainings were got on the job, self sponsored training, in-house training etc. The result of this study is contrary to many previous studies such as Arnoult, (1986),



Khayundi's (1995) Ovowoh (2010) who reported that there were no personnel trained in preservation and conservation of library materials.

5.0 CONCLUSION AND RECOMMENDATION

The worth of a library is determined the range and updatedness of her collection. For the library to achieve her aims and objectives, preservation of these collections becomes imperative. One of the greatest challenges of the library over the years has been loss of resources; Security issues and disaster have plagued the libraries so immensely. It becomes difficult to replace materials that are stolen, mutilated or plagued by flood or fire at this period of economic recession coupled with the dwindling budgetary allocation to the library. The libraries should gear towards proper security and disaster preparedness measure to guide against disaster occurrence. The findings of this study has pointed out that the libraries still make use of traditional security measure and the disaster recovery plan is ineffective. Thus the following recommendations are made:

- The libraries should map out a comprehensive insurance scheme with any of the reputable insurance broker to reduce possible risk
- The libraries should embrace electronic security measures for effectiveness against theft, mutilation and other vices.
- A disaster rescue team should be constituted by the libraries to monitor and build a concrete synergy with the necessary agencies such as the fire brigade and the plumbing units of the mother institution.
- The libraries should carry out regular fire drill and mock disaster response programs.



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