

Integrating UZ ETD with Web OPAC

Mutsikiwa Admire
ICT Projects Manager
University of Zimbabwe
amutsikiwa@uzlib.uz.ac.zw

IUG:SA 2007



Overview

- ❑ Background to E-theses projects
- ❑ What is an e-thesis?
- ❑ Benefits of e-theses
- ❑ Accessing E-thesis from the native interface –An example
- ❑ E-thesis submission process at UZ
- ❑ Rationale for the Integration
- ❑ Script for exporting to Marc & Local Customization
- ❑ Generating and loading MARC record
- ❑ Post-loading activities
- ❑ Accessing E-theses from Web OPAC



Background to E-Theses

- E-theses concept mooted in 2003
- Extension of the DATAD project.
- Providing access to a local database of abstracts as well as combined AAU database of abstracts.
- Pilot projects of e-theses done in 2004 using ETD-db open source software from Virginia Tech



What is an e-thesis?

- ETD: Electronic Theses and Dissertations
 - Thesis or Dissertation in an electronic format
 - All ETDs have a textual component (PDF file)
 - Some have additional media files, data files, or other non-print content.
- In our case the e-thesis are predominantly PDF files.



Benefits of E-Theses

- ❑ Immediate delivery to users (time component).
- ❑ Remote delivery to users (location component).
- ❑ Improve library services
- ❑ Higher citation rates for online articles
- ❑ Preserve and maintain the research outputs

UZ E-Theses Home Page

ETDs-Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail Print Preview Print Setup Print and Fax

Address http://ethesis.uz.ac.zw/ETD-db/ Go Links

Google Go Bookmarks 7 blocked ABC Check AutoLink AutoFill Send to Settings

UZ Home Library Home Spt Home E-learning

University of Zimbabwe

Electronic Theses & Dissertation (ETDs)

Browse Search Admin Login

Select Browse by Author

Browse By

- Author
- Department

Vision..
To increase the availability of Zimbabwe graduate research for scholars, empower them to deliver a richer message through the use of multimedia and hypermedia technology

http://ethesis.uz.ac.zw/ETD-db/ETD-browse/browse Local intranet

Browsing by Author




Browse Available ETDs by Author: A - Microsoft Internet Explorer


File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Refresh Print Mail New Tab

Address http://ethesis.uz.ac.zw/ETD-db/ETD-browse/browse Go Links

Google Go Bookmarks 7 blocked Check AutoLink AutoFill Send to Settings

 **university of zimbabwe**  **E.T.D.** 
Knowledge
Diligence
Integrity
Electronic - Theses & Dessertations



Browse Available ETDs by Author: A

Browse by: [Department](#) [Author](#)

A | **B** | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | [J](#) | [K](#) | [L](#) | [M](#) | [N](#) | [O](#) | [P](#) | [Q](#) | [R](#) | [S](#) | [T](#) | [U](#) | [V](#) | [W](#) | [X](#) | [Y](#) | [Z](#) | [All](#)

There are no ETDs whose Author begins with the letter A.

([Browse](#) | [Search](#)) All Available ETDs

U.Z ETDs

If you have questions or technical problems, [Contact ETD-db Technical](#).

http://ethesis.uz.ac.zw/ETD-db/ETD-browse/browse?first_letter=C Local intranet

Alphabetical Listing by Author

Click on the first Entry

university of zimbabwe
E.T.D
Electronic - Theses & Dissertations

Browse Available ETDs by Author: C

Browse by: [Department](#) Author

[A](#)|[B](#)|[C](#)|[D](#)|[E](#)|[F](#)|[G](#)|[H](#)|[I](#)|[J](#)|[K](#)|[L](#)|[M](#)|[N](#)|[O](#)|[P](#)|[Q](#)|[R](#)|[S](#)|[T](#)|[U](#)|[V](#)|[W](#)|[X](#)|[Y](#)|[Z](#)|[All](#)

Author Name	Title	Department	Date/Time
Chakauya, Ereck	Genetic Diversity Assessment of Sorghum [<i>Sorghum bicolor</i> (L.) Moench] and Pearl Millet (<i>Pennisetum glaucum</i> L.) Landraces Collected from Zimbabwe's Communal Areas, based on Microsatellites and Isozymes.	Crop Science	2004-09-28
Chakona, Albert	The Macroinvertebrate Communities Of Two Upland Streams In Eastern Zimbabwe With Reference To The Impact Of Forestry	Biological Sciences	2006-03-09
Chiduwa, George	Genetic Resource Base, Phenotypic Characters and Herd Dynamics of Indigenous Pigs in a Semi-arid Smallholder Farming Area of Zimbabwe	Animal Science	2007-03-16
Chikanda, Abel	The Emigration Potential of Skilled Zimbabweans: Perceptions, Current Migration	Geography and	2004-09-

http://ethesis.uz.ac.zw/theses/available/etd-09282004-084039/ Local intranet

Example of Access From Native Interface

Microsoft Internet Explorer window showing the title page for ETD etd-09282004-084039.

Address: <http://ethesis.uz.ac.zw/theses/available/etd-09282004-084039/>

University of Zimbabwe E.T.D. Electronic - Theses & Dessertations

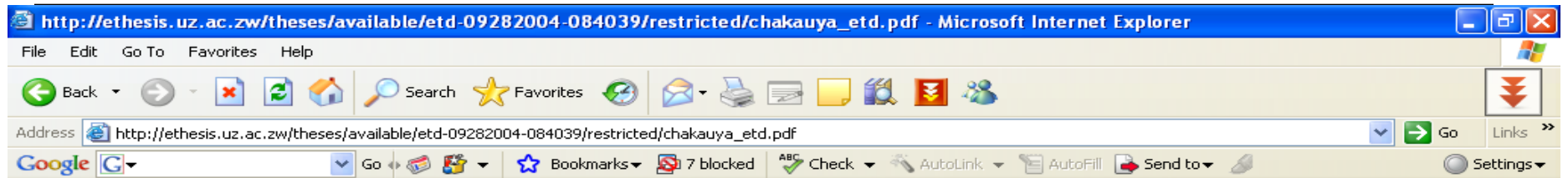
knowledge
dilligence
Integrity

Title page for ETD etd-09282004-084039

Type of Document	Master's Thesis						
Author	Chakauya, Ereck						
URN	etd-09282004-084039						
Files	Approximate Download Time (Hours:Minutes:Seconds)						
	Filename	Size	28.8 Modem	56K Modem	ISDN (64 Kb)	ISDN (128 Kb)	Higher-speed Access
	chakauya_etd.pdf	644.98 Kb	00:02:59	00:01:32	00:01:20	00:00:40	00:00:03

Click the pdf link

Full Text Access From ETD-db Native Interface



INTRODUCTION

Sorghum [*Sorghum bicolor* (L). Moench] and pearl millet (*Pennisetum glaucum* L.) are called *mapfunde* and *mhunga* in Shona, *amabele* and *nyauthi* in Ndebele respectively. They are ranked third and fourth most important cereal crops in Zimbabwe, after maize and wheat (FAO, 1996). Their socioeconomic importance is seen on the joint involvement of the government and non-governmental organisations in breeding and production research. Sorghum and pearl millet are essentially produced for fodder, construction material, brooms, syrup and most importantly grain for flour and brewing traditional opaque beer. The cereals make the staple food for many Zimbabweans, particularly those situated in semi-arid areas. Given enough research, sorghum and pearl millet have the potential of playing a leading role in hunger alleviation programmes in Zimbabwe (Dhlamini, 1996).



E-Theses Submission and Processing Process

- ❑ Electronic submission of theses and dissertation is now mandatory at UZ
- ❑ Graduate students submit both bound copy of their theses and an electronic version on CD or diskette to the Library.
- ❑ The upload and cataloguing process is centralized.
- ❑ Application of the necessary Acrobat Standard Security Features
- ❑ Capturing the pertinent metadata



ETD-db Metadata

- ❑ Author (Last Name, Middle Name, First Name)
- ❑ Author's email
- ❑ URN
- ❑ Title
- ❑ Degree
- ❑ Department
- ❑ Major Subject
- ❑ Graduation Date
- ❑ University
- ❑ Availability
- ❑ Advisory Committee
- ❑ Keywords
- ❑ Abstract
- ❑ Type of Document
- ❑ And other date fields



Rationale for Integration

- ❑ Access statistics for the e-theses server were low.
- ❑ Need to have more than one access avenue for the e-theses.
- ❑ Boost access statistics, hopefully usage statistics.
- ❑ Leverage on ILS course.
- ❑ Web OPAC will not strain our limited bandwidth.



The Perl Script - Export_to_marc.pl

- ETD-db software ships with PERL script for converting ETD records to MARC (specifically in USMARC format)
- The script may require local customization;
 - Field 502 was changed to reflect UZ
 - Field 720 was changed to 700 for it to be searchable.
 - Field 260 defaults to “Not Published”.
 - Field 856 (availability information) to indicate that “Full-Text Article -Accessible Only on UZ Campus”
 - SubField 856 u encodes the URL to the –e-theses on the remote server
 - The database schema was altered to include the Boolean flag, **export_flag**.
- The perl script was modified accordingly.



Generating MARC Record

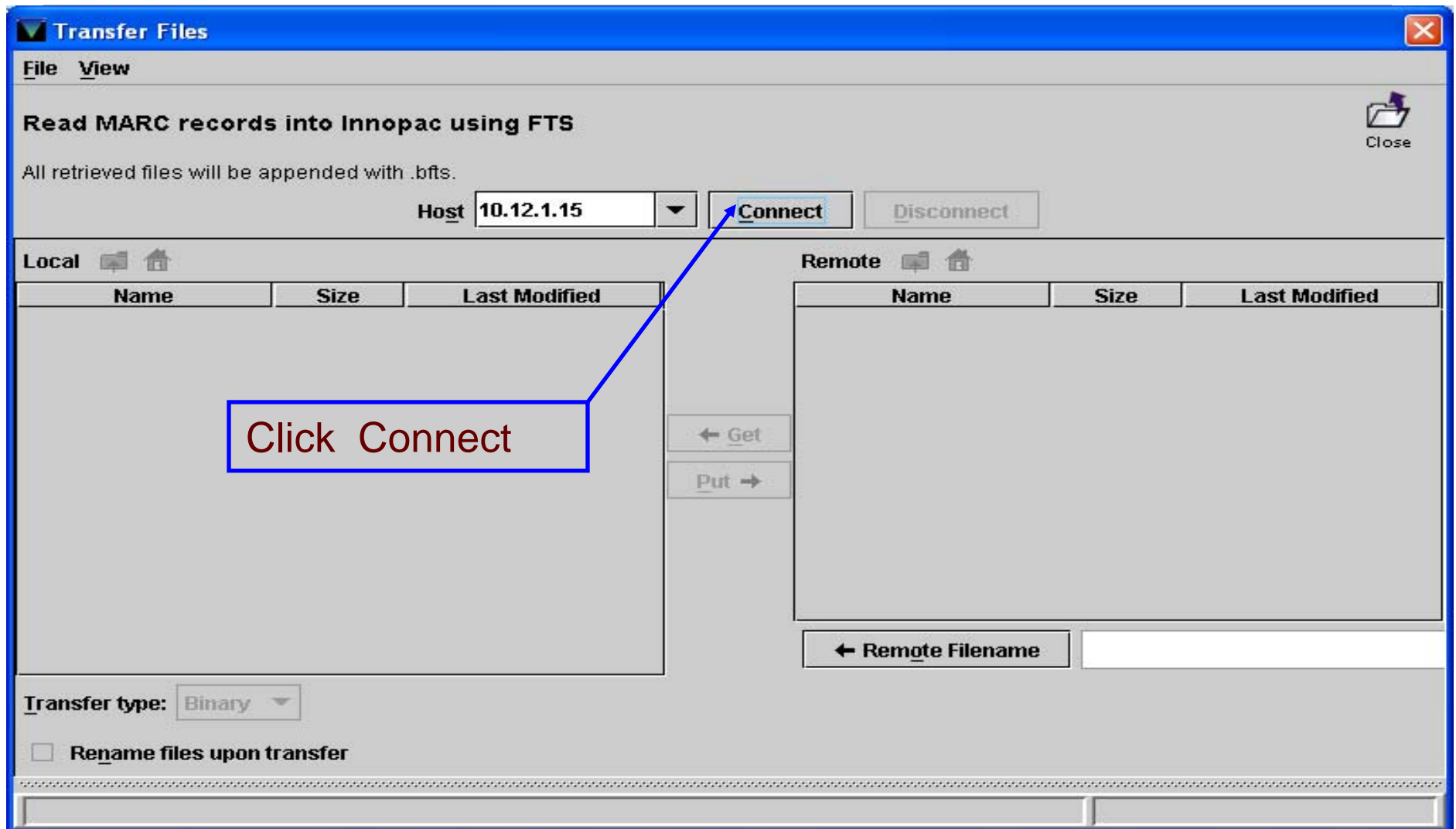
- ❑ The `export_to_marc.pl` script is activated once the number of e-theses that have not been converted to MARC format reaches a certain number (10, in our case)
- ❑ An email notification is send to relevant divisions to alert them of outstanding files to be uploaded to Millennium
- ❑ The file with USMARC record is uploaded manually to the Millennium server

Upload Process Using the FTS

The screenshot shows the Millennium Administration software interface for the University of Zimbabwe Library. The window title is "Millennium Administration · University of Zimbabwe Library". The menu bar includes File, Edit, View, Go, Tools, Admin, and Help. The main area is titled "Data Exchange" and contains a toolbar with buttons for View, Delete, Get FTS, Get PC, Prep, and Load. Below the toolbar is a "Select Process" dropdown menu currently set to "Load BIB/ITEM records (batch)". A table with columns "File", "Name", "Type", "Size", and "Last Modified" is visible but empty. A blue box with the text "Click Get FTS" and an arrow points to the "Get FTS" button. A vertical sidebar on the left contains icons for Millennium, Create Lists, Statistics, Coverage Edit, Coverage Load, Web Options, Data Exchange, and Funds.

File	Name	Type	Size	Last Modified
------	------	------	------	---------------

Connecting to the Remote Server



Remote Account Authentication

The image shows a classic Windows-style dialog box titled "Login". The title bar is blue and contains a small icon on the left and a red close button with a white "X" on the right. The main area of the dialog is light gray. It features two text input fields: the first is labeled "User" and contains the text "iii_etd"; the second is labeled "Password" and contains seven asterisks "*****". Below these fields are two buttons: "OK" and "Cancel". A blue rectangular box with the text "Click OK" is positioned above the "OK" button, with a blue line pointing from the box to the button.

Login

User: iii_etd

Password: *****

OK Cancel

Upload From the Remote ETD Server to Millennium

Transfer Files

File View

Read MARC records into Innopac using FTS

All retrieved files will be appended with .bfts.

Host: 10.12.1.15 [Connect] [Disconnect]

Local

Name	Size	Last Modified
1Final_Undergradu...	1491712	23-12-1969 1:21AM
1Final_Undergradu...	431773	23-12-1969 1:18AM
adkins_test.txt.pat	768	22-12-1969 11:22PM
adkins_test.txt.pfts	120	22-12-1969 11:21PM
etd_int_out.out	72071	28-12-1969 7:33PM
etds.mrc.text	301903	26-12-1969 8:21PM
etds.text	301903	26-12-1969 8:21PM

Remote: /export/ETD-db-v1.8/non-cgi-scripts

Name	Size	Last Modified
1tobe_etds.txt.bfts	61983	06-11-2007 ...
backup_databases	899	22-09-2004 ...
check_advisors	4452	22-09-2004 ...
check_if_theshold.sh	1189	01-11-2007 ...
determine_file_sizes	1868	22-09-2004 ...
etd_non-cgi-lib.pl	2645	22-09-2004 ...
etds_2_marc_06_November_2...	61983	06-11-2007 ...
export_to_marc.long-abstracts	8102	16-02-2007 ...
export_to_marc.pl	9911	06-11-2007 ...
export_to_marc.pl_new_bak	9614	02-11-2007 ...

← Get

Put →

← Remote Filename

Transfer type: Binary

Rename files upon transfer

Select the file to export

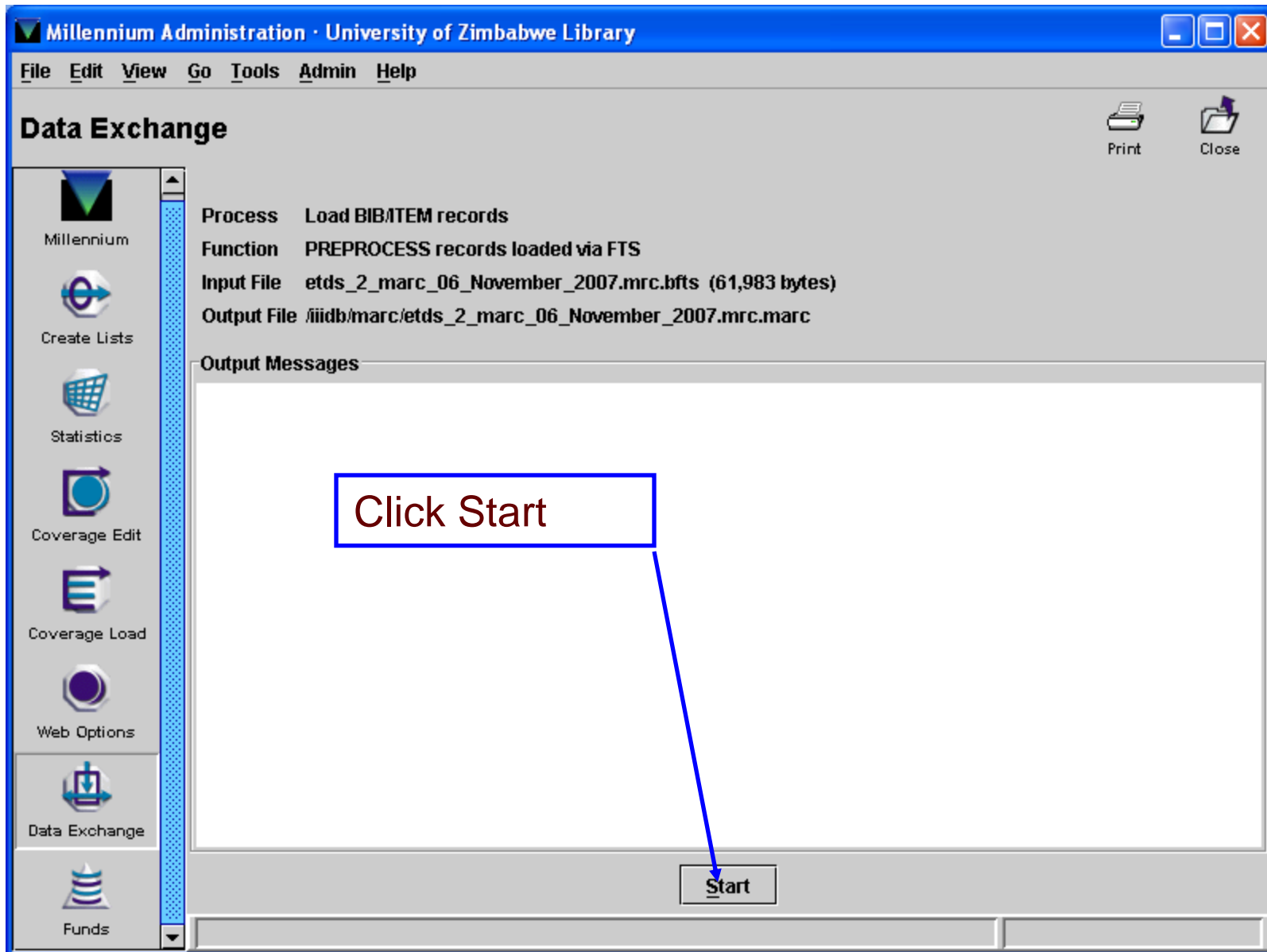
Preprocessing the Records Before Loading

The screenshot shows the Millennium Administration software interface for the University of Zimbabwe Library. The window title is "Millennium Administration · University of Zimbabwe Library". The menu bar includes File, Edit, View, Go, Tools, Admin, and Help. The main section is titled "Data Exchange" and contains a toolbar with icons for View, Delete, Get FTS, Get PC, Prep, and Load. Below the toolbar is a "Select Process" dropdown menu set to "Load BIB/ITEM records (batch)". A table displays a single record:

File	Name	Type	Size	Last Modified
1	etds_2_marc_06_Novembe...	bfts	61983	06-11-2007 3:48PM

A blue box with the text "Click Pre" is positioned below the table, with a blue arrow pointing from the box to the "Prep" button in the toolbar.

Preprocessing the Records Before Upload



Preprocessing the Records Before

The screenshot shows the Millennium Administration software interface for the University of Zimbabwe Library. The window title is "Millennium Administration · University of Zimbabwe Library". The menu bar includes File, Edit, View, Go, Tools, Admin, and Help. The main area is titled "Data Exchange" and contains the following information:

Process Load BIB/ITEM records
Function PREPROCESS records loaded via FTS
Input File etds_2_marc_06_November_2007.mrc.bfts (61,983 bytes)
Output File /iiddb/marc/etds_2_marc_06_November_2007.mrc.marc

Output Messages

```
2:inoff 5015:leng 3587:outoff 5376:skipped 2  
3:inoff 8604:leng 6058:outoff 9216:skipped 2  
4:inoff 14664:leng 3585:outoff 15360:skipped 2  
5:inoff 18251:leng 3898:outoff 19200:skipped 2  
6:inoff 22151:leng 3190:outoff 23296:skipped 2  
7:inoff 25343:leng 7265:outoff 26624:skipped 2  
8:inoff 32610:leng 3214:outoff 34048:skipped 2  
9:inoff 35826:leng 4822:outoff 37376:skipped 2  
10:inoff 40650:leng 5932:outoff 42240:skipped 2  
11:inoff 46584:leng 5963:outoff 48384:skipped 2  
12:inoff 52549:leng 4105:outoff 54528:skipped 2  
13:inoff 56656:leng 5325:outoff 58880:skipped 2  
NUMBER OF INPUT RECORDS - 13  
NUMBER OF BYTES SKIPPED - 24  
NUMBER OF ERRORS - 12 ( use -el flag to see messages )  
NUMBER OF OUTPUT RECORDS - 13
```

A blue box labeled "Click Start" points to the "Start" button at the bottom of the window. The status bar at the bottom right shows "Completed".

Loading the Record to Millennium

The screenshot displays the Millennium Administration software interface for the University of Zimbabwe Library. The window title is "Millennium Administration · University of Zimbabwe Library". The menu bar includes "File", "Edit", "View", "Go", "Tools", "Admin", and "Help". The main area is titled "Data Exchange" and contains the following information:

- Process:** Load BIB/ITEM records
- Function:** LOAD a MARC file
- Input File:** etds_2_marc_06_November_2007.mrc.marc (64,256 bytes)
- Start Block:** 1
- Stop Block:** 250
- Maximum Records to Load:** 1000000
- Use Review Files

Below the input fields is an "Output Messages" section, which is currently empty. At the bottom of the window, there are two buttons: "Test" and "Load". A blue box with the text "Click Load" and a blue arrow points to the "Load" button.

3

Feedback From the Loading Process

Millennium Administration · University of Zimbabwe Library

File Edit View Go Tools Admin Help

Data Exchange

Print Close

Process Load BIB/ITEM records
Function LOAD a MARC file
Input File etds_2_marc_06_November_2007.mrc.marc (64,256 bytes)

Start Block 251
Stop Block 250
Maximum Records to Load 1000000

Use Review Files

Output Messages

```
RECORD LOADING STATISTICS
Input file - etds_2_marc_06_Novem      Start date - 06 November 02:11PM
Error file - etds_2_marc_06_November_2007.mrc.errlog      End date - 06 November 02:11PM
m2btabs file - m2btabs.b
Number of input records - 13
Number of errors - 0
```

	NEW	EXISTING	INPUT	TOTAL
	RECORDS	RECORDS	RECORDS	RECORDS
	CREATED	OVERLAYED	REJECTED	READ
BIBLIOGRAPHIC	13	0	0	13

Test **Load**

Click Load

Proofing the Record with Cataloguing Module

Cataloging/Scanning Workstation - [b12656343]

File Edit View Connect Search Go To Record Tools Window Help

LANG	eng	SKIP	0	LOCATION	Error	CAT DATE	06-11-200
BIB LVL	m	MAT TYPE	t	BCODE3	-	COUNTRY	vau
RECORD #	b12656343	CREATED	06-11-200	UPDATED	06-11-200	REVISION	1

```

008          s2005      vau|      sm      00| 0|eng dntmuu
035      (VPI) etd-08292005-122343
100 1  Sibanda, Sipho
245 00  Evaluation of Three Animal Powered Weeding Implements in
      Cotton Based Systems of the Zambezi Valley in Zimbabwe.
256      Computer data - 2 file(s)
260      |Harare|bUniversity Libraries, University of Zimbabwe, |c2005
502      Thesis (MPHIL)--University of Zimbabwe, 2005-07-30 -- Not
      Published
504      Includes bibliographical references.
520 3  This thesis reports the results of a survey carried out in
      Muzarabani, through use of a questionnaire administered to a
      total of 83 farmers in Gutsa, Muringazuva, Mfudzi and
      Kapembere villages to determine the condition of animal
      powered implements. It also assesses the performance of three
      animal powered mechanical weeding implements using the
      mother-baby approach through various options for land
      preparation, crop establishment and weed management. The
  
```

b12656343 Item: 0 Order: 0 Checkin: 0

INS NUM



URL Verification

- Use URL verification functionality that comes with WAM to verify the validity of URLs in the bibliographic records in the INNOPAC database.
- Verifies URLs in subfield **u** of MARC 856 fields.
- System verifies each URL by attempting to open a connection to the indicated address and confirming that the expected type of data (HTTP in this case) is available.
- Accessible from the Standard menu via:
 - ALTER SYSTEM PARAMETERS W > WEB Access Management subsystem option
 - V > VERIFY Universal Resource Locators (URLs).

Web OPAC Index Page

University of Zimbabwe - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://uzlibsys.uz.ac.zw/> Go

Google G Go Bookmarks 7 blocked Check AutoLink AutoFill Send to Settings

 University of Zimbabwe Libraries
web opac

Search Local Catalog Search the library's holdings for books, eBooks, digital records, images, periodicals, and more.

Title View Entire Collection

 FIND INFORMATION	 MY LIBRARY	 ABOUT THE LIBRARY
 Featured item lists	 My Millennium	 Library info
 Course reserves	 Suggest a purchase	
 Other resources	 Make a general suggestion	
 Search tips		

Home | Help

Powered by [Innovative Interfaces, Inc.](#) 2003

Searching from Web OPAC- Title Search

University of Zimbabwe Library / All Locations - Microsoft Internet Explorer

Address <http://uzlibsys.uz.ac.zw/search/a?a>

Google Go

Bookmarks 7 blocked Check AutoLink AutoFill Send to Settings

University of Zimbabwe Libraries
WEB OPAC

Start Over Extended Display Limit/Sort Search Search As Words Another Search (Search History)

TITLE View Entire Collection Sort Search

Save Marked Records Save All On Page Other Resources

Num Save	TITLES (1-2 of 2)	Year	Entries Found
1	<input type="checkbox"/> Solid Waste Disposal : Baum, Bernard,	1973-	1
2	<input type="checkbox"/> Solid Waste Disposal In Victoria Falls Town: Spatial Dynamics, Environmental Impacts, Health Threats : Masocha, Mhosisi		1

Save Marked Records Save All On Page

Start Over Extended Display Limit/Sort Search Search As Words Another Search (Search History)

Home | Help

Accessing the Record

The screenshot shows a Microsoft Internet Explorer browser window with the title bar "University of Zimbabwe Library /All Locations - Microsoft Internet Explorer". The address bar contains the URL: <http://uzlibsys.uz.ac.zw/search/tsolid+waste+disposal+/tsolid+waste+disposal/1%2C2%2C2%2CB/frameset&FF=tsolid+wast>. The browser interface includes a menu bar (File, Edit, View, Favorites, Tools, Help), a toolbar with navigation buttons (Back, Forward, Stop, Refresh, Home, Search, Favorites, Print, Mail, Run, Stop, Go, Links), and a search bar with the Google logo.

The main content area displays a record for a thesis. At the top, it says "Record: [Prev](#) [Next](#)". The record details are as follows:

Author	Masocha, Mhosisi
Title	Solid Waste Disposal in Victoria Falls Town: Spatial Dynamics, Environmental Impacts, Health Threats and Socio-economic Benefits.
Pub info	Not Published

Below the record details, there is a section titled "Connect to" with a link: [Full-Text Article -Accessible Only OnCampus](#).

LOCATION	CALL NO	STATUS
Spec. Coll. Theses		AVAILABLE Book This Item

2 copies ordered for Main Library on 17-03-2005.

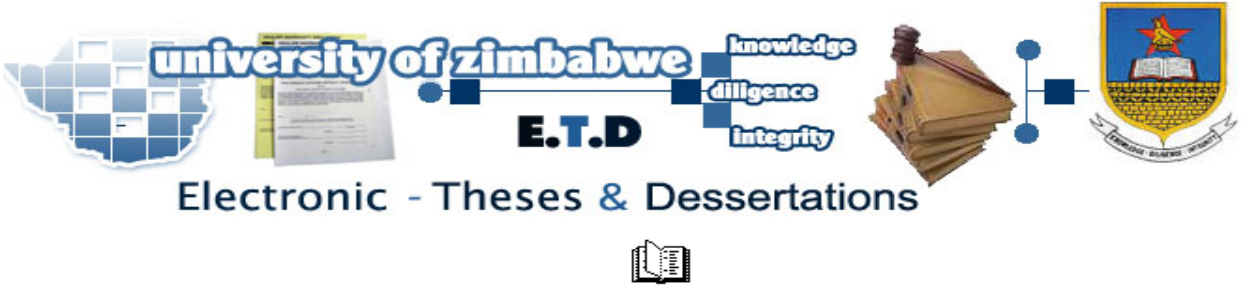
Thesis	Thesis (MPHIL)--University of Zimbabwe, 2004-07-01 -- Not Published
Bibliog.	Includes bibliographical references.
Summary	The sanitary disposal of solid wastes constitutes one of the most pressing challenges facing urban authorities in Zimbabwe. In recent years, there has been considerable increase in illegal waste dumping, which indicates that throughout the country, urban waste disposal systems are inefficient and environmentally unsafe. While there are numerous studies, which have focused on solid waste management in Zimbabwe, existing research has concentrated mostly on: (i) large cities especially Harare and sidelined small towns; and (ii) all elements

Accessing the Title Page of the E-Thesis

University of Zimbabwe Library /All Locations - Microsoft Internet Explorer

Address <http://uzlibsys.uz.ac.zw/search/tsolid+waste+disposal/tsolid+waste+disposal/1%2C2%2C2%2CB/l856&FF=tsolid+waste+disposal+in+victoria+falls+town+spatial+dyna> Go

University of Zimbabwe Libraries
WEB OPAC



Electronic - Theses & Dessertations

Title page for ETD etd-09242004-113058

Type of Document	Master's Thesis
Author	Masocha, Mhosisi
URN	etd-09242004-113058
Title	Solid Waste Disposal in Victoria Falls Town: Spatial Dynamics, Environmental Impacts, Health Threats and Socio-economic Benefits.
Degree	Master of Philosophy

PDF Files for the E-Thesis

University of Zimbabwe Library /All Locations - Microsoft Internet Explorer

Address: <http://uzlibsys.uz.ac.zw/search/tsolid+waste+disposal+/tsolid+waste+disposal/1%2C2%2C2%2CB/1856&FF=tsolid+waste+di>

University of Zimbabwe Libraries
WEB OPAC

Filename	Size	Approximate Download Time (Hours:Minutes:Seconds)				
		28.8 Modem	56K Modem	ISDN (64 Kb)	ISDN (128 Kb)	Higher- speed Access
C Thesis2004 etd.pdf	1.16 Mb	00:05:22	00:02:45	00:02:25	00:01:12	00:00:06

C indicates that a file or directory is accessible from the University of Zimbabwe campus network only.

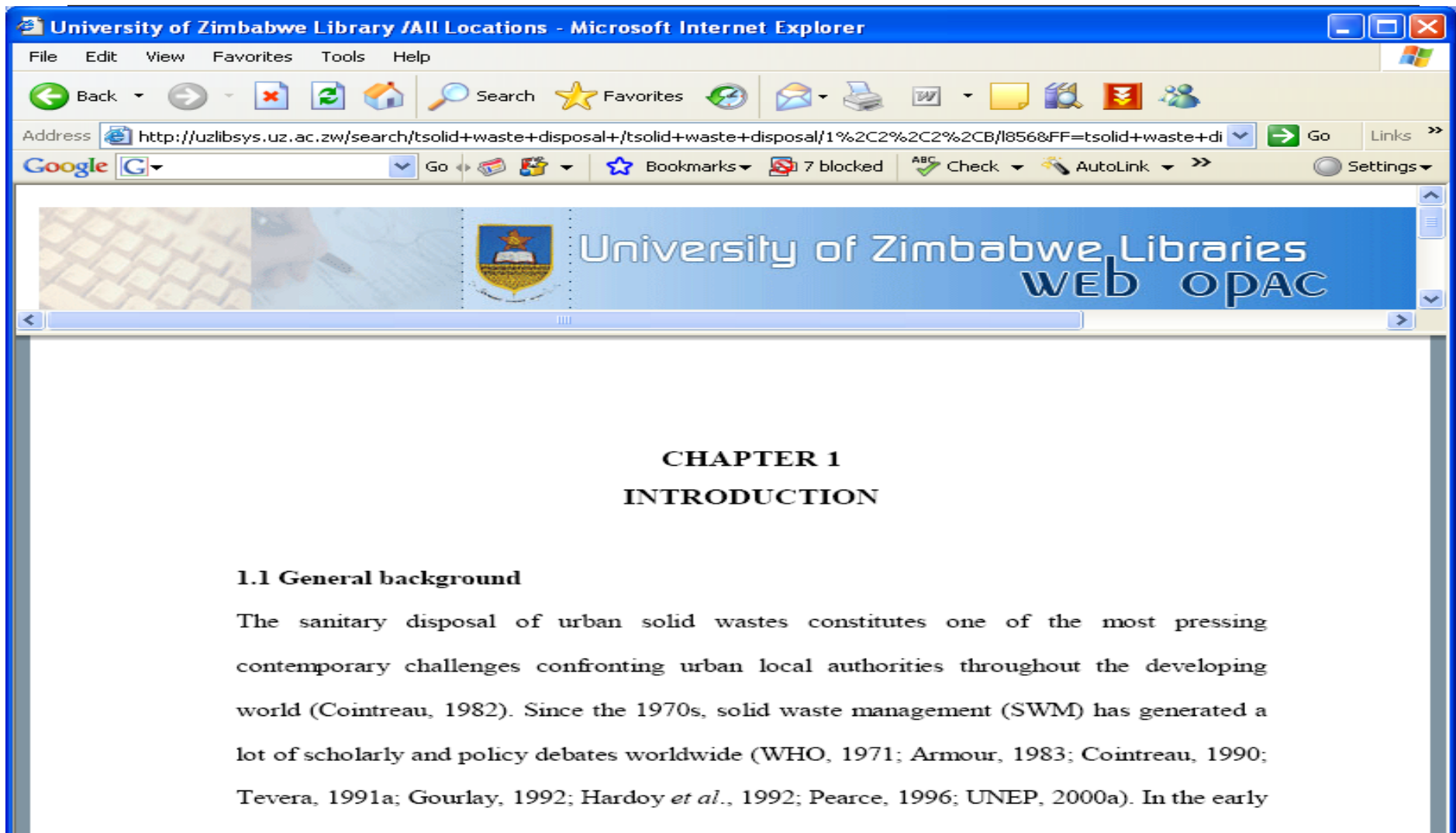
Browse All Available ETDs by ([Author](#) | [Department](#))

U.Z ETDs

If you have questions or technical problems, [Contact ETD-db Technical](#).

Local intranet

Full text Access from OPAC Page



University of Zimbabwe Library /All Locations - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Recycle Bin Mail Print Word Pad Internet Options

Address <http://uzlibsys.uz.ac.zw/search/tsolid+waste+disposal+/tsolid+waste+disposal/1%2C2%2C2%2CB/l856&FF=tsolid+waste+di> Go Links

Google Go Bookmarks 7 blocked Check AutoLink Settings

University of Zimbabwe Libraries
WEB OPAC

CHAPTER 1
INTRODUCTION

1.1 General background

The sanitary disposal of urban solid wastes constitutes one of the most pressing contemporary challenges confronting urban local authorities throughout the developing world (Cointreau, 1982). Since the 1970s, solid waste management (SWM) has generated a lot of scholarly and policy debates worldwide (WHO, 1971; Armour, 1983; Cointreau, 1990; Tevera, 1991a; Gourlay, 1992; Hardoy *et al.*, 1992; Pearce, 1996; UNEP, 2000a). In the early

Some E-Thesis Server Access Statistics – from Webalizer Utility

Before the Integration of ETD and Web OPAC

Usage Statistics for ethesis.uz.ac.zw

Summary Period: December 2005

Generated 21-Dec-2005 17:09 CAT

#	Hits	Files	KBytes	Visits	Hostname
1	918 91.43%	139 62.90%	818 16.31%	47 94.00%	students.uz.ac.zw
2	55 5.48%	53 23.98%	197 3.93%	1 2.00%	education.uz.ac.zw
3	30 2.99%	28 12.67%	4001 79.76%	1 2.00%	sociol.uz.ac.zw
4	1 0.10%	1 0.45%	0 0.00%	1 2.00%	compcentre.uz.ac.zw

After the Integration of ETD and Web OPAC

Usage Statistics for ethesis.uz.ac.zw

Summary Period: May 2006

Generated 01-Jun-2006 04:02 CAT

#	Hits	Files	KBytes	Visits	Hostname
1	549 65.36%	441 66.42%	13456 62.86%	22 62.86%	uzibsys.uz.ac.zw
2	123 14.64%	114 17.17%	3224 5.71%	2 5.71%	arts.uz.ac.zw
3	112 13.33%	74 11.14%	354 20.00%	7 20.00%	students.uz.ac.zw
4	25 2.98%	10 1.51%	41 5.71%	2 5.71%	socio.uz.ac.zw
5	18 2.14%	15 2.26%	66 2.86%	1 2.86%	compcentre.uz.ac.zw
6	13 1.55%	10 1.51%	40 2.86%	1 2.86%	education.uz.ac.zw



THANK YOU

Questions and Discussion