A Digital Preservation Strategy for the University of Pretoria using *DSpace* Open Source Software

Ina Smith
13 May 2009
African Digital Scholarship & Curation Conference, CSIR

100
1908 - 2008

UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
Denkleiers • Leading Minds • Dikgopolo tša Dihlalefi

Agenda

- Setting the scene
- Overview of *DSpace*
- Digital Preservation using *DSpace* – practical tips for inclusion in your digital preservation strategy
- Conclusion

Digital Info

- Modern computer technology – barely 50 years old
- Few have seen/used digital objects more than 20 years old
- Lack of experience & consensus on how to proceed with digital preservation processes
- Preserve for 100 years & more – “How old … / from which era ….” (Jantz & Giarlo 2005)
- Lots of digital info lost already
- Work towards a digital preservation strategy

Golden rules for wine preservation …

- Total absence of vibrations
- Low temperature
- Relative humidity (65%-75%)
- Continuous/ consistent air circulation throughout cabinet/ cellar
- Store bottle horizontally – cork must remain damp
- Absolute darkness
- Insulators to reduce leaks of hot or cold
- Greater concentration of tannin, the longer wine will last
- Exactly right temperature
- Choice of cabinet etc.

Source: http://www.oak.es/reglas_e.htm

What is an Institutional Repository?

"An institutional repository is a **set of services** that an institution offers to the members of its community for the **management and dissemination of digital materials** created by the institution and its community members.

It is most essentially an **organizational commitment** to the **stewardship** of these digital materials, including **long-term preservation** where appropriate, as well as **organization** and **access** or **distribution**."

(Lynch 2003)

Digital Preservation defined

Managed activities necessary:

- For the **long term maintenance of a byte stream (including metadata)** sufficient to reproduce a suitable facsimile of the original document and

- For the **continued accessibility** of the document contents through time and changing technology

(Jantz & Giarlo 2005)

Trusted Repository defined

"One whose mission it is to provide **reliable**, **long-term access** to managed digital resources to its designated community, now and in the future."

(RLG-OCLC Report 2002)

3 definitions … What are we looking for?

Trusted Digital Institutional **Repository** for
long-term preservation of all digital materials

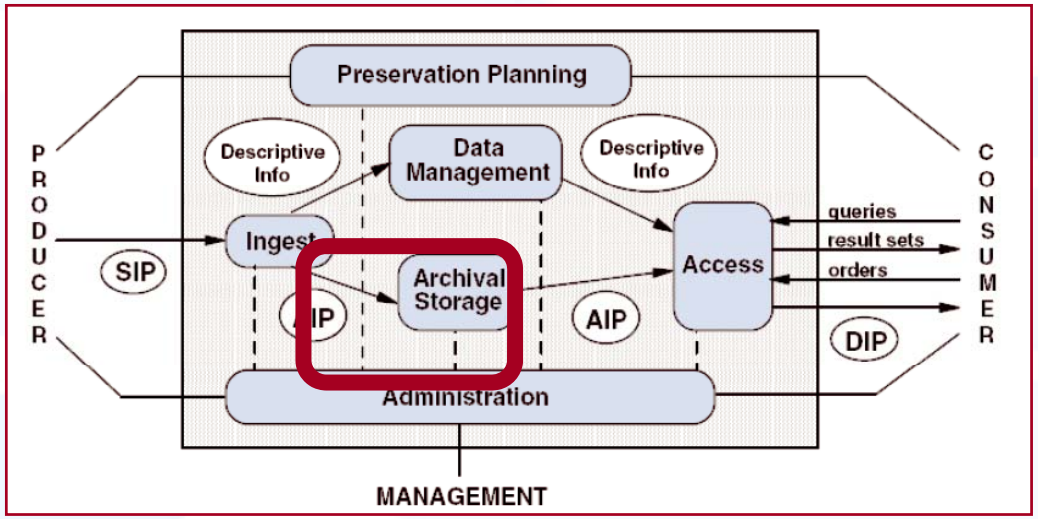
Attributes of a Trusted Repository

- Compliance with the *Reference Model for an Open Archival Information System* (OAIS)
- Administrative responsibility
- Organizational viability
- Financial sustainability
- Technological & procedural suitability
- System security
- Procedural accountability

Source: Trusted Digital Repositories: Attributes and Responsibilities
An RLG-OCLC Report
http://www.oclc.org/programs/ourwork/past/trustedrep/repositories.pdf

OAIS Functional Model – Archival Storage

CCSDS 650.0-B-1: *Reference Model for an Open Archival Information System (OAIS)*. Blue Book. Issue 1. January 2002. This Recommendation has been adopted as ISO 14721:2003.



Source: http://public.ccsds.org/publications/archive/650x0b1.pdf

OAIS Reference Model provides …

- Framework
  - Understanding & increased awareness of archival concepts
  - Describing & comparing architecture & operations
  - Describing & comparing long-term preservation strategies & techniques
- Terminology & Concepts
  - Common
- Guides identification & production of OAIS related standards

Overview of *DSpace*

http://www.dspace.org/

Why Open Source Software?

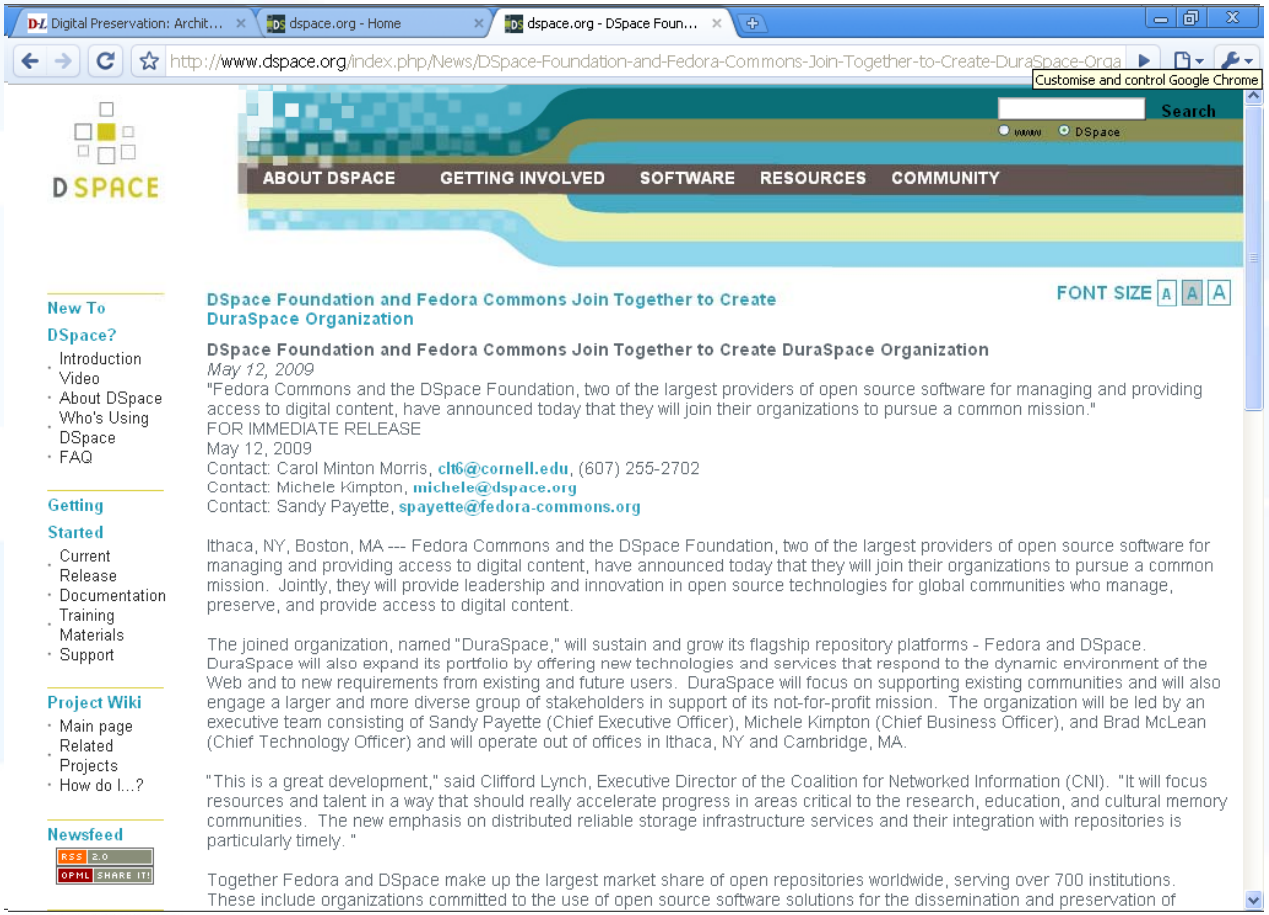
- Promotes collaboration and knowledge sharing between institutions who have the expertise, and the ones who do not have the expertise or necessary resources to start such a service
- All participants benefit, and not only the vendor
- Product belongs to all, and lots of support is available from the open source community
- No marketing is involved – therefore there is not a clever salesman involved selling the product, only focusing on the stuff the program can do, and not the limitations

Why Open Source Software? (cont.)

- What you see is what you get
- Open Source software is flexible
- It promotes openness and creative thinking
- It is open for scrutiny
- It is searchable and retrievable via the World Wide Web
- It can be used by institutions with minimal resources
- World standards and open standards are used, which make it a very favorable choice

DuraSpace Organization on 12 May 2009

http://www.dspace.org/index.php/News/DSpace-Foundation-and-Fedora-Commons-Join-Together-to-Create-DuraSpace-Organization.html



- “By bringing together the technical, financial, and community-based resources of the two organizations, their communities gain a robust organization focused on solving the many challenges involved in storing, **curating, and preserving digital data and scholarship”** – James Hilton, CIO Univ. of Virginia
- *DuraCloud* - hosted service that takes advantage of the cost efficiencies of cloud storage and cloud computing, while adding value to help ensure longevity and re-use of digital content

Read more:
http://en.wikipedia.org/wiki/Cloud_storage#Storage

http://www.up.ac.za/dspace/

Digitally born & digitized material

SAMJ FORUM

CLINICAL IMAGES

Awaking a sleeping epidemic

Riaan van Coller, Elna van Rensburg, Clara Schutte, Delene Brink, Gerhard Walthagen, M G Dove

Two patients with African sleeping sickness (SS) presented to the neurology unit, Pretoria Academic Hospital, during 2004 and 2005. SS has shown a recent resurgence, with epidemics in the Sudan, Angola and the Democratic Republic of Congo. The number of infected people in Africa is currently estimated at more than 500 000. According to the World Health Organization (WHO), about 20 *Trypanosoma brucei gambiense* and 30 *T. b. rhodesiense* infections are diagnosed yearly outside endemic areas in Africa. Migration, tourism, peacekeeping and military interventions and the re-emergence of SS epidemics might increase these numbers.[1]

The electroencephalogram (EEG) is often useful in the diagnosis of coma and delirium, but has not been widely used in the diagnosis of SS. The EEG is proposed as a novel way to follow disease progression, treatment response and treatment-induced encephalopathy.

Case 1

A 27-year-old man presented with a 4-month history of fatigue, loss of appetite, intermittent severe headaches, excessive daytime sleepiness, loss of concentration and insomnia. He had travelled to Malawi 8 months before admission. His temperature was 38.8°C, he had a palpable hepatomegaly and an unremarkable neurological examination although his cognitive response was slow. Diagnosis of African trypanosomiasis was made on a Giemsa-stained blood smear (Fig. 1).

Shortly after admission the patient had a tonic-clonic seizure, with post-ictal confusion. Treatment with suramin was started and repeat blood smears after 48 hours were clear of trypanosomes. The cerebrospinal fluid (CSF) showed no trypanosomes but a total protein level of 1.2 g/l, glucose 2.1 mmol/l, 4 polymorphs and 82 lymphocytes. WHO-recommended treatment with melarsoprol was started.[1]

Since no trypanosomes were isolated from inoculated mice the diagnosis of West African trypanosomiasis (WAT) was made. Eflornithine was unavailable and treatment with melarsoprol continued. The patient recovered well and returned to the UK.

Five months after discharge he presented to the Hospital for Tropical Diseases in London with fever, sleepiness and an active CSF. Diagnosis of a relapse was made which posed a diagnostic dilemma – recurring *T. b. gambiense*. Treatment with eflornithine was given which cleared his condition.

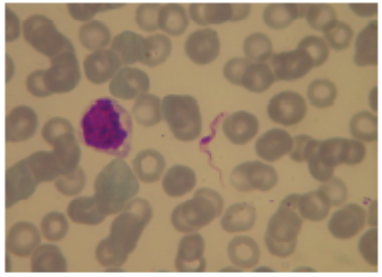


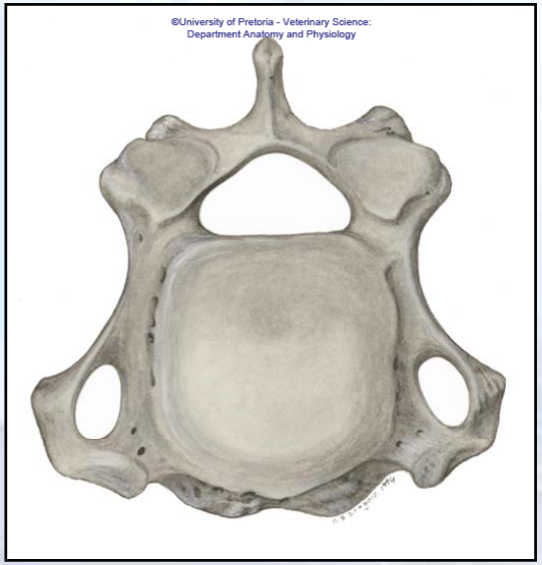
Fig. 1. Giemsa smear (case 1) showing extracellular trypanosomiasis parasite in the peripheral blood.

Case 2

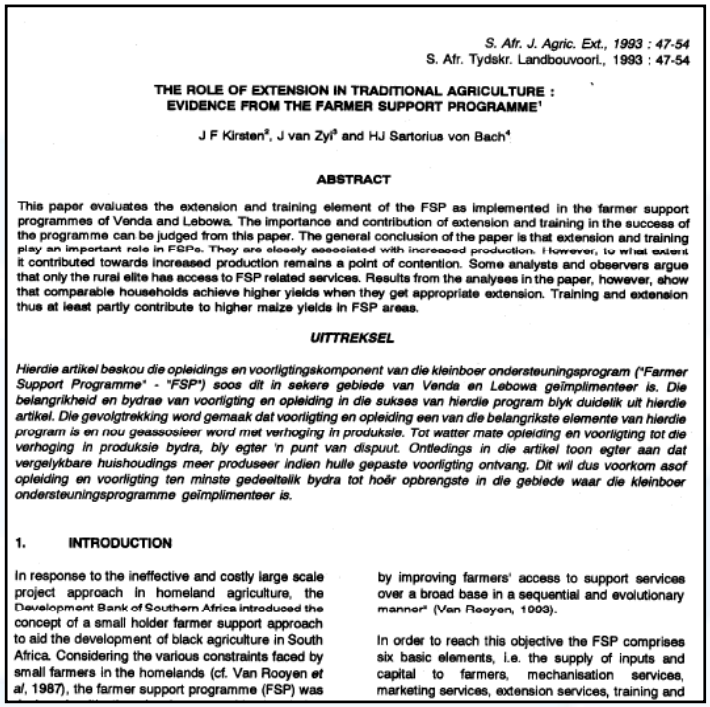
A 53-year-old man presented with a 2-week history of fever, headache and episodic confusion. He was a farmer from Kariba in Zimbabwe where he had been treated for malaria without any clinical improvement. He gave a history of multiple tsetse fly bites but did not have a chancre. A Giemsa-stained blood smear showed *Trypanosoma* spp. On admission his temperature was 39.4°C, but the general examination was unremarkable. He was very sleepy but easily arousable. The diagnosis of East African trypanosomiasis (EAT) was confirmed by isolating *T. b. rhodesiense* from inoculated mice. Treatment with suramin was started and repeated. Giemsa-stained blood smears did not show any trypanosomes. The following day he had a fatal cardiac arrhythmia, probably due to myocarditis.

Our first patient had a series of EEG recordings. These indicated a low-voltage mixed-frequency background with episodic, generalised but frontally dominant irregular delta activity (Fig. 2). Follow-up showed a gradual improvement in the frequency of the background. The second patient had an EEG

The authors are in the departments of Neurology and Clinical Microbiology, University of Pretoria.



Digitally born & digitized material



S. Afr. J. Agric. Ext., 1993 : 47-54
S. Afr. Tydskr. Landbouvoorl., 1993 : 47-54

THE ROLE OF EXTENSION IN TRADITIONAL AGRICULTURE : EVIDENCE FROM THE FARMER SUPPORT PROGRAMME[1]

J F Kirsten[2], J van Zyl[3] and HJ Sartorius von Bach[4]

ABSTRACT

This paper evaluates the extension and training element of the FSP as implemented in the farmer support programmes of Venda and Lebowa. The importance and contribution of extension and training in the success of the programme can be judged from this paper. The general conclusion of the paper is that extension and training play an important role in FSPs. They are closely associated with increased production. However, to what extent it contributed towards increased production remains a point of contention. Some analysts and observers argue that only the rural elite has access to FSP related services. Results from the analyses in the paper, however, show that comparable households achieve higher yields when they get appropriate extension. Training and extension thus at least partly contribute to higher maize yields in FSP areas.

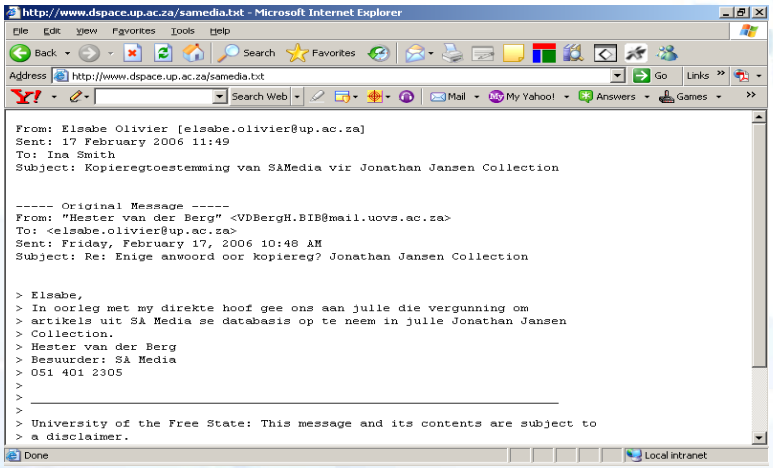
UITTREKSEL

Hierdie artikel beskou die opleidings en voorligtingskomponent van die kleinboer ondersteuningsprogram ("Farmer Support Programme" - "FSP") soos dit in sekere gebiede van Venda en Lebowa geïmplimenteer is. Die belangrikheid en bydrae van voorligting en opleiding in die sukses van hierdie program blyk duidelik uit hierdie artikel. Die gevolgtrekking word gemaak dat voorligting en opleiding een van die belangrikste elemente van hierdie program is en nou geassosieer word met verhoging in produksie. Tot watter mate opleiding en voorligting tot die verhoging in produksie bydra, bly egter 'n punt van dispuut. Ontledings in die artikel toon egter aan dat vergelykbare huishoudings meer produseer indien hulle gepaste voorligting ontvang. Dit wil dus voorkom asof opleiding en voorligting ten minste gedeeltelik bydra tot hoër opbrengste in die gebiede waar die kleinboer ondersteuningsprogramme geïmplimenteer is.

1. INTRODUCTION

In response to the ineffective and costly large scale project approach in homeland agriculture, the Development Bank of Southern Africa introduced the concept of a small holder farmer support approach to aid the development of black agriculture in South Africa. Considering the various constraints faced by small farmers in the homelands (cf. Van Rooyen *et al*, 1987), the farmer support programme (FSP) was by improving farmers' access to support services over a broad base in a sequential and evolutionary manner (Van Rooyen, 1993).

In order to reach this objective the FSP comprises six basic elements, i.e. the supply of inputs and capital to farmers, mechanisation services, marketing services, extension services, training and



http://www.dspace.up.ac.za/samedia.txt - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites

Address http://www.dspace.up.ac.za/samedia.txt

Search Web Mail My Yahoo! Answers Games

```
From: Elsabe Olivier [elsabe.olivier@up.ac.za]
Sent: 17 February 2006 11:49
To: Ina Smith
Subject: Kopieregtoestemming van SAMedia vir Jonathan Jansen Collection


----- Original Message -----
From: "Hester van der Berg" <VDBergH.BIB@mail.uovs.ac.za>
To: <elsabe.olivier@up.ac.za>
Sent: Friday, February 17, 2006 10:48 AM
Subject: Re: Enige anwoord oor kopiereg? Jonathan Jansen Collection


> Elsabe,
> In oorleg met my direkte hoof gee ons aan julle die vergunning om
> artikels uit SA Media se databasis op te neem in julle Jonathan Jansen
> Collection.
> Hester van der Berg
> Besuurder: SA Media
> 051 401 2305
>
> _____
>
> University of the Free State: This message and its contents are subject to
> a disclaimer.
```

Done Local intranet

SA Media - The University of the Free State Page: 1

Source: FINANCIAL MAIL Date: 13-May-2005

Topic: 19 Ref No: 3041

ID: 03214184-01 Source Page: 34

By Invitation

PROTECTION UP TO A POINT

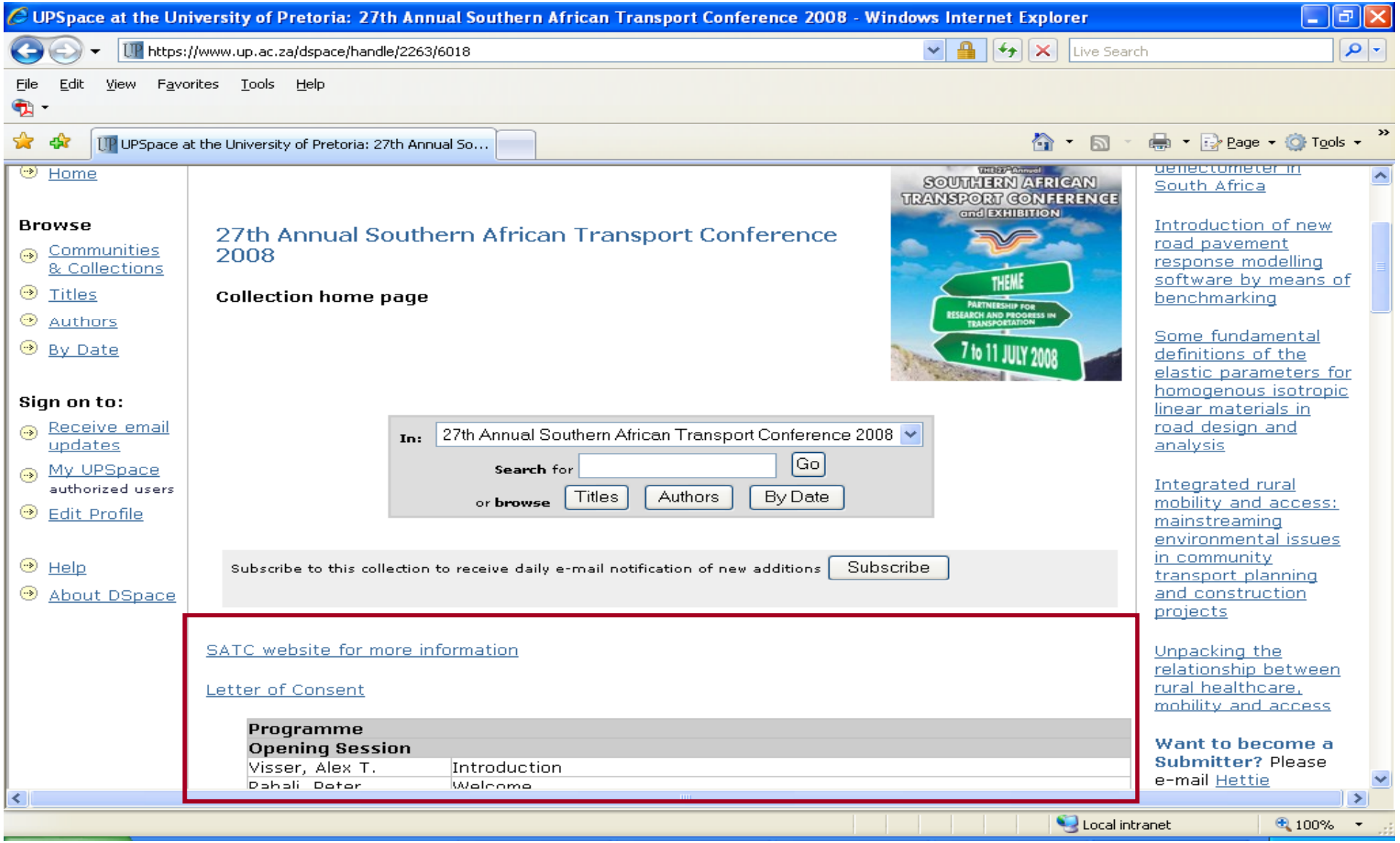
Johann Kirsten

A recent research study concludes that the impact of a tariff on the price of white bread would be minimal

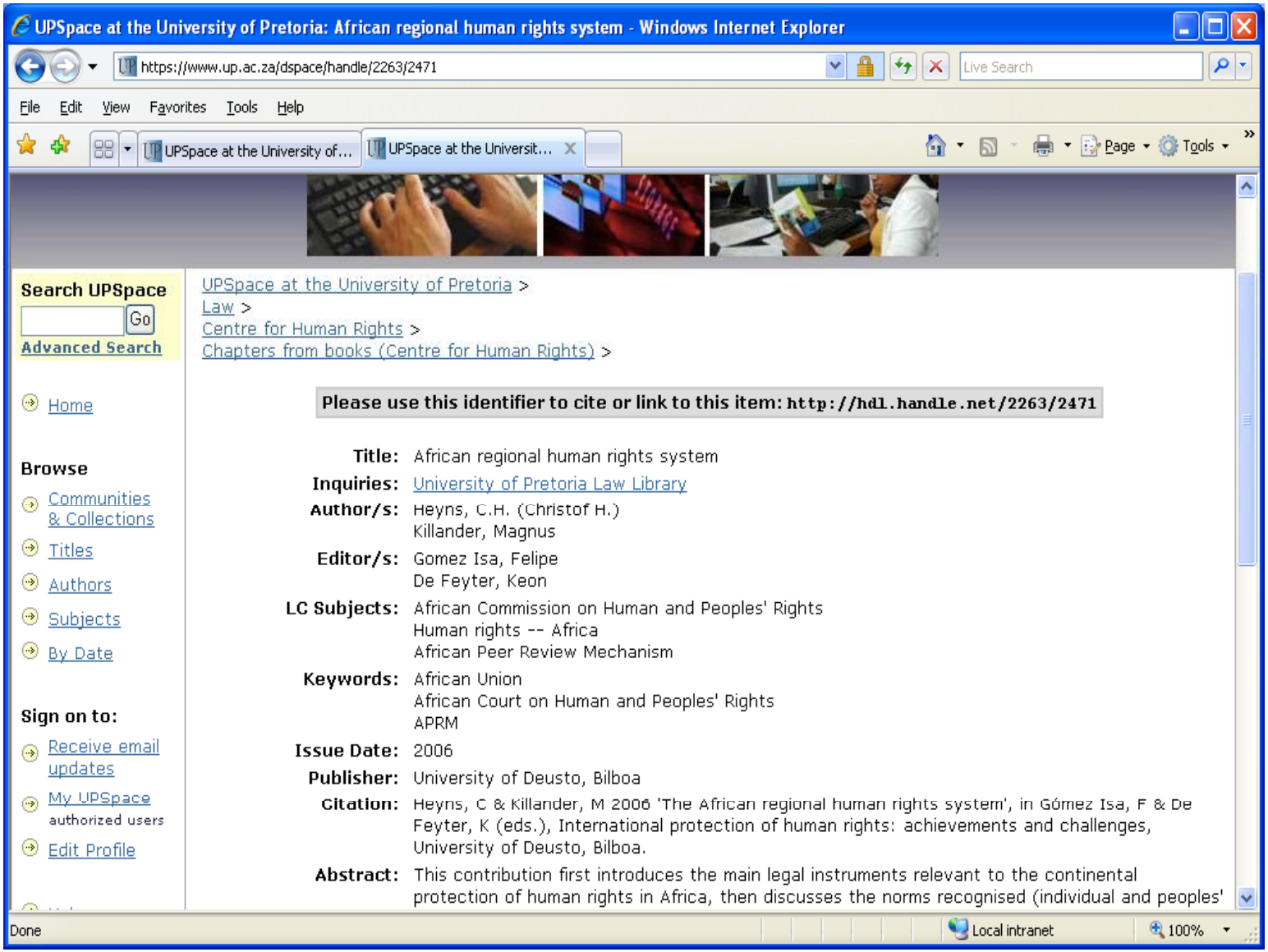
```
>gi|73624990|gb|DQ103533.1| Botryosphaeria rhodina strain CMW9074 18S ribosomal RNA gene
GGAAGGATCATTACCGAGTTTTCGAGCTCCGGCTCGACTCTCCCACCCTTTGTGAACGTACCTCTGTTGC
TTTGGCGGCTCCGGCCGCCAAAGGACCTTCAAACTCCAGTCAGTAAACGCAGACGTCTGATAAACAAGTT
AATAAACTAAAACTTTCAACAACGGATCTCTTGGTTCTGGCATCGATGAAGAACGCAGCGAAATGCGATA
AGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCCTTGGTATTCCG
GGGGGCATGCCTGTTCGAGCGTCATTACAACCCTCAAGCTCTGCTTGGAATTGGGCACCGTCCTCACTGC
GGACGCGCCTCAAAGACCTCGGCGGTGGCTGTTCAGCCCTCAAGCGTAGTAGAATACACCTCGCTTTGGA
GCGGTTGGCGTCGCCCGCCGGACGAACCTTCTGAACTTTTCTCAAGGTTGACCTCGGAT
```

100 1908 - 2008
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
Denkleiers • Leading Minds • Dikgopolo tša Dihlalefi

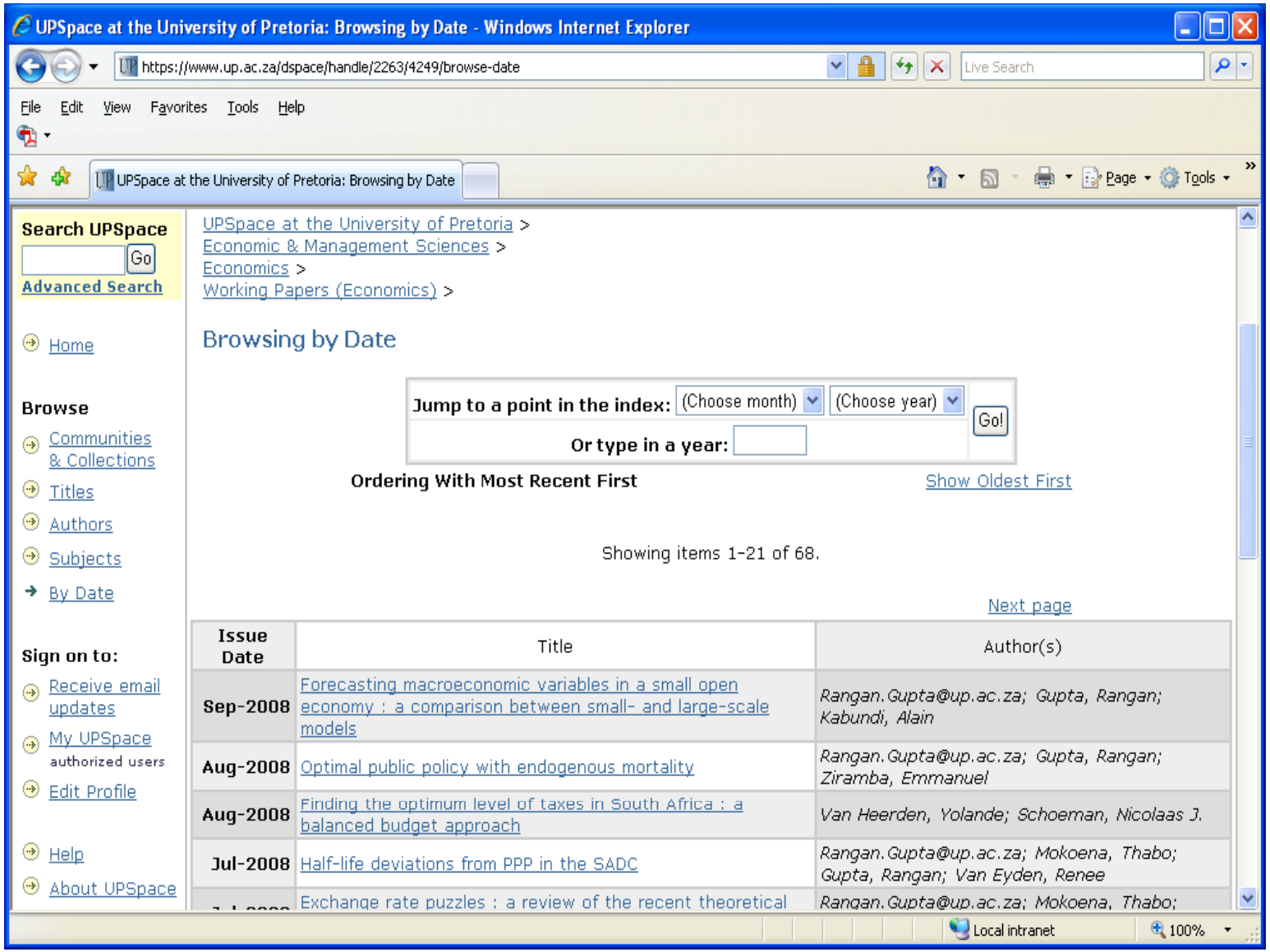
Papers in refereed published conference proceedings



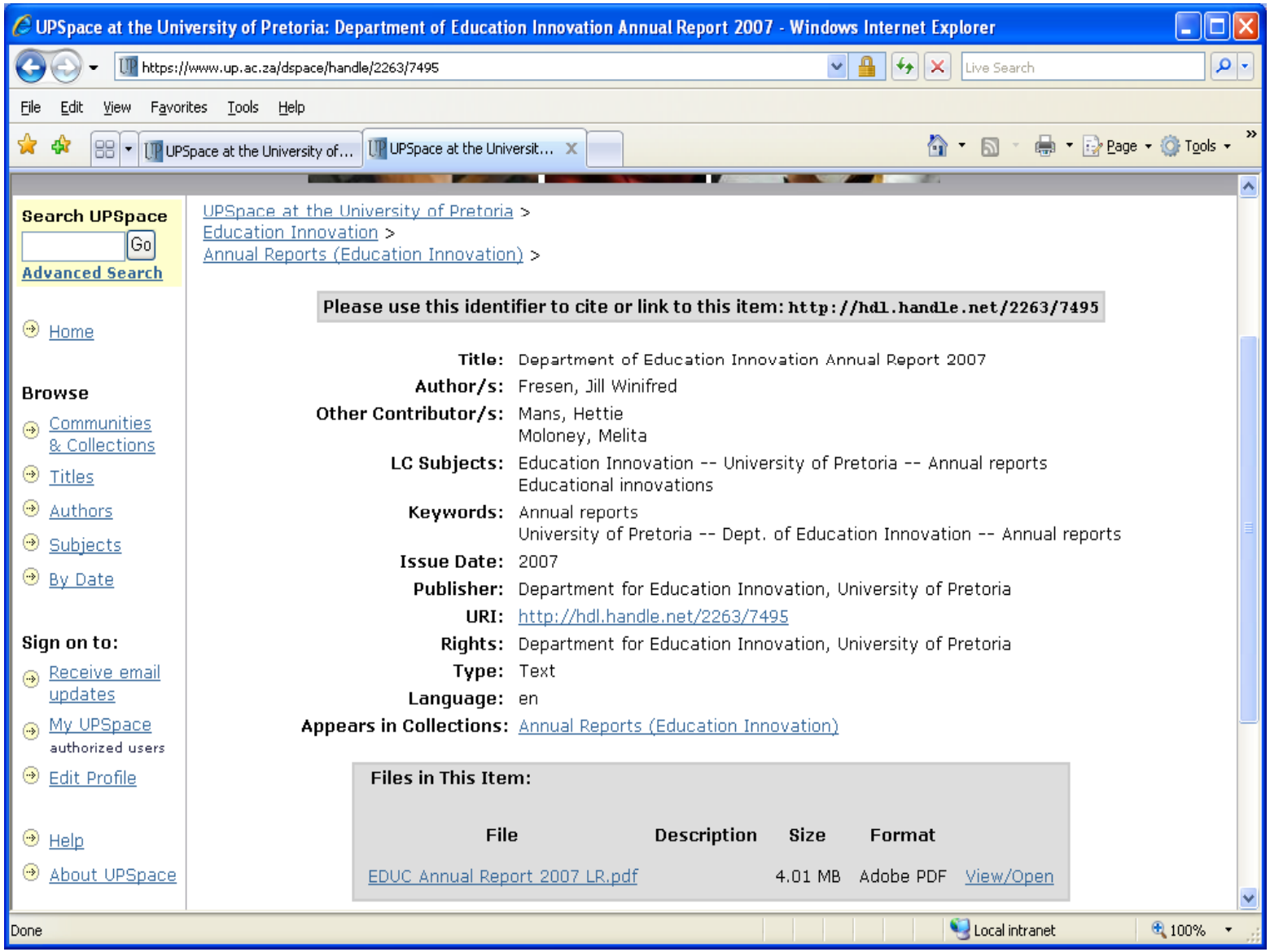
Chapters from Books



Working Papers



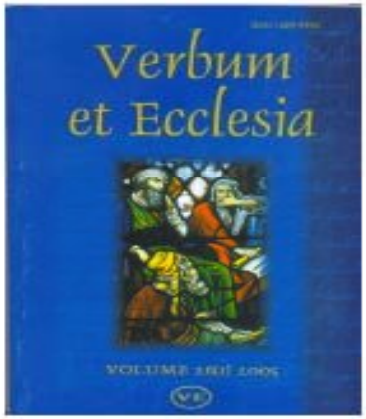
Annual Reports



Journal Publication Platform

Verbum et Ecclesia

Community home page



In: Verbum et Ecclesia

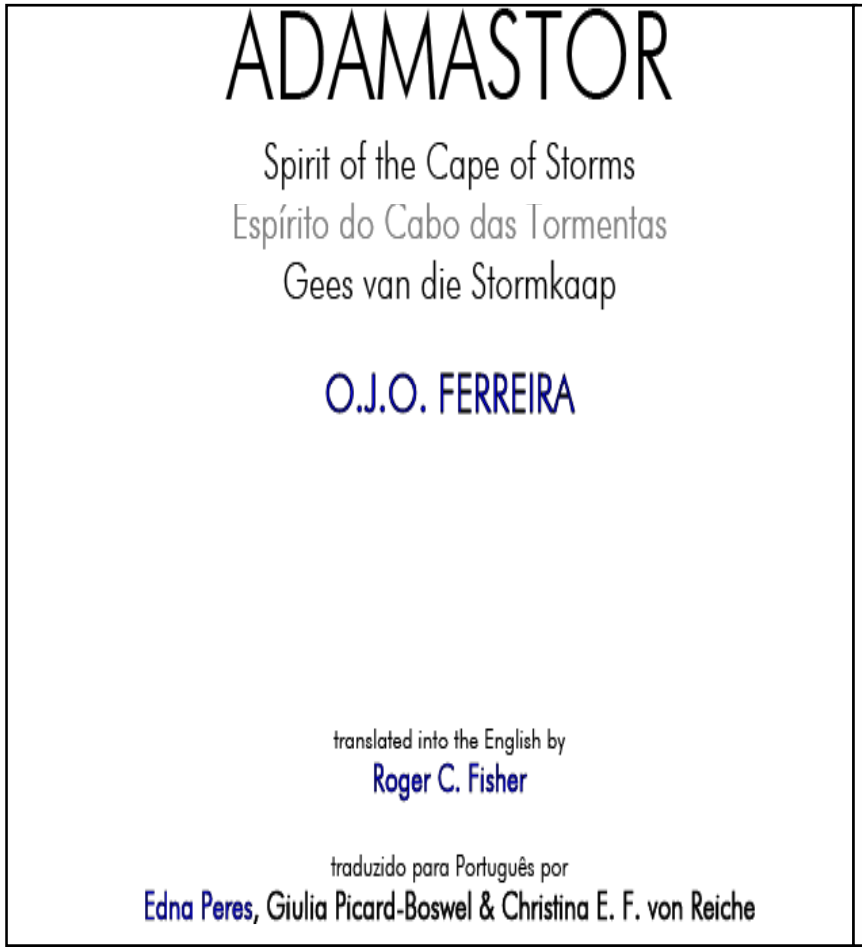
Search for Go

or **browse** Titles Authors Subjects By Date

Verbum et Ecclesia is the academic journal of the Dutch Reformed Church at the Faculty of Theology, University of Pretoria. It is accredited by the South African National Department of Education, has an international board of editors, and all articles are peer reviewed. Previously published as *Skrif en Kerk*.

Vision

eBook



Title: Adamastor, Spirit of the Cape of Storms

Other Titles: Adamastor, Espirito do Cabo das Tormentas
Adamastor, Gees van die Stormkaap

Inquiries: nico.botes@up.ac.za

Author/s: Ferreira, O.J.O. (Ockert Jacobus Olivier), 1940-

Editor/s: Le Roux, Schalk

Illustrator/s: Botes, Nico

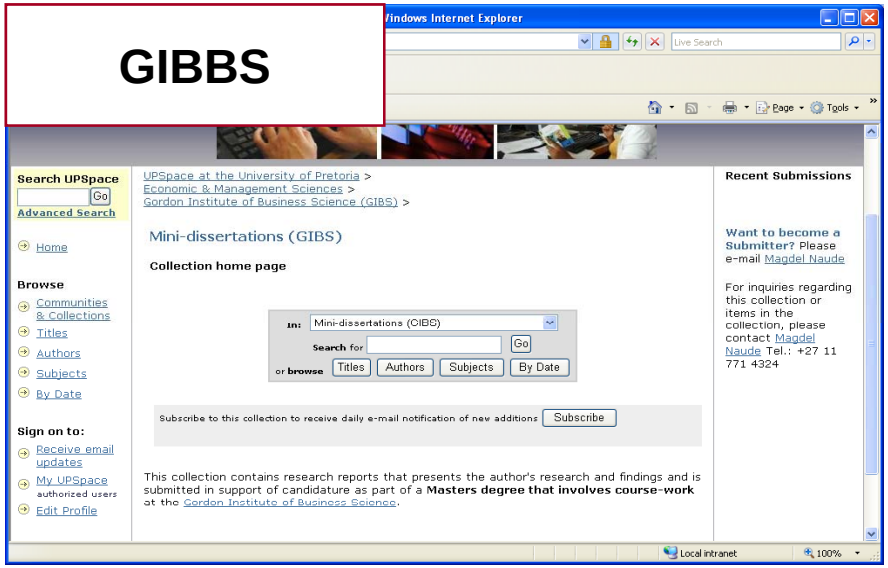
Other Contributor/s: Fisher, Roger C.
Botes, D.P.M.
Peres, Edna
Picard-Boswel, Giulia
Von Reiche, C.E.F.
Van Aswegen, Henning

LC Subjects: Camoes, Luis de, 1524?-1580. Lusiadas
Epic poetry, Portuguese
Ferreira, O.J.O. (Ockert Jacobus Olivier), 1940-

Keywords: Adamastor
Camoes, Luis de, 1524?-1580
Cape of Storms
Mythological beings
Epic poem
Epic poetry
Gama, Vasco da, 1469-1524
Voyages to India
Camoens, Luis de, 1524?-1580

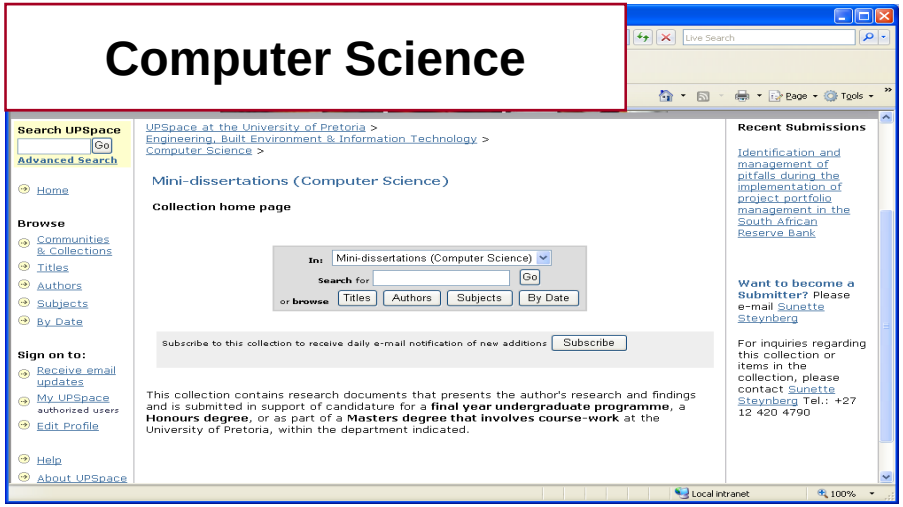
Mini-dissertations

GIBBS

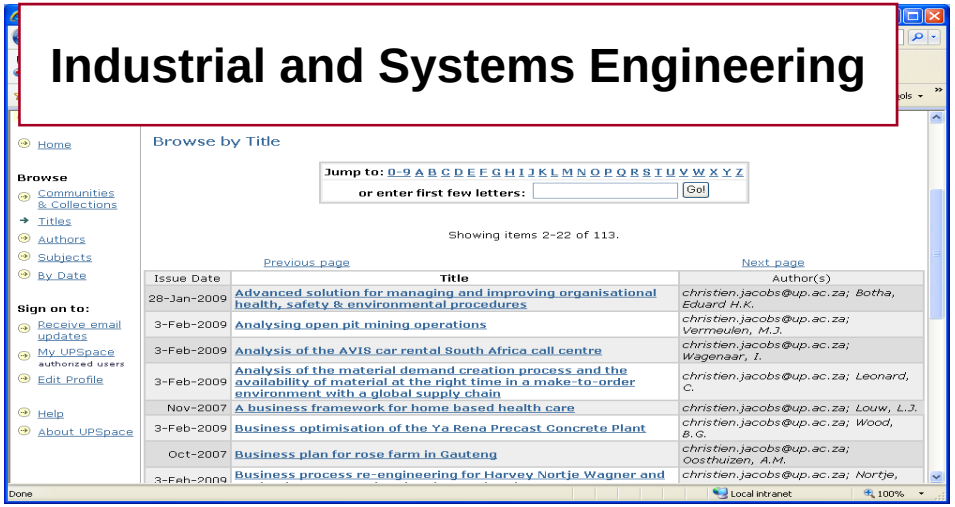


Centre for Human Rights

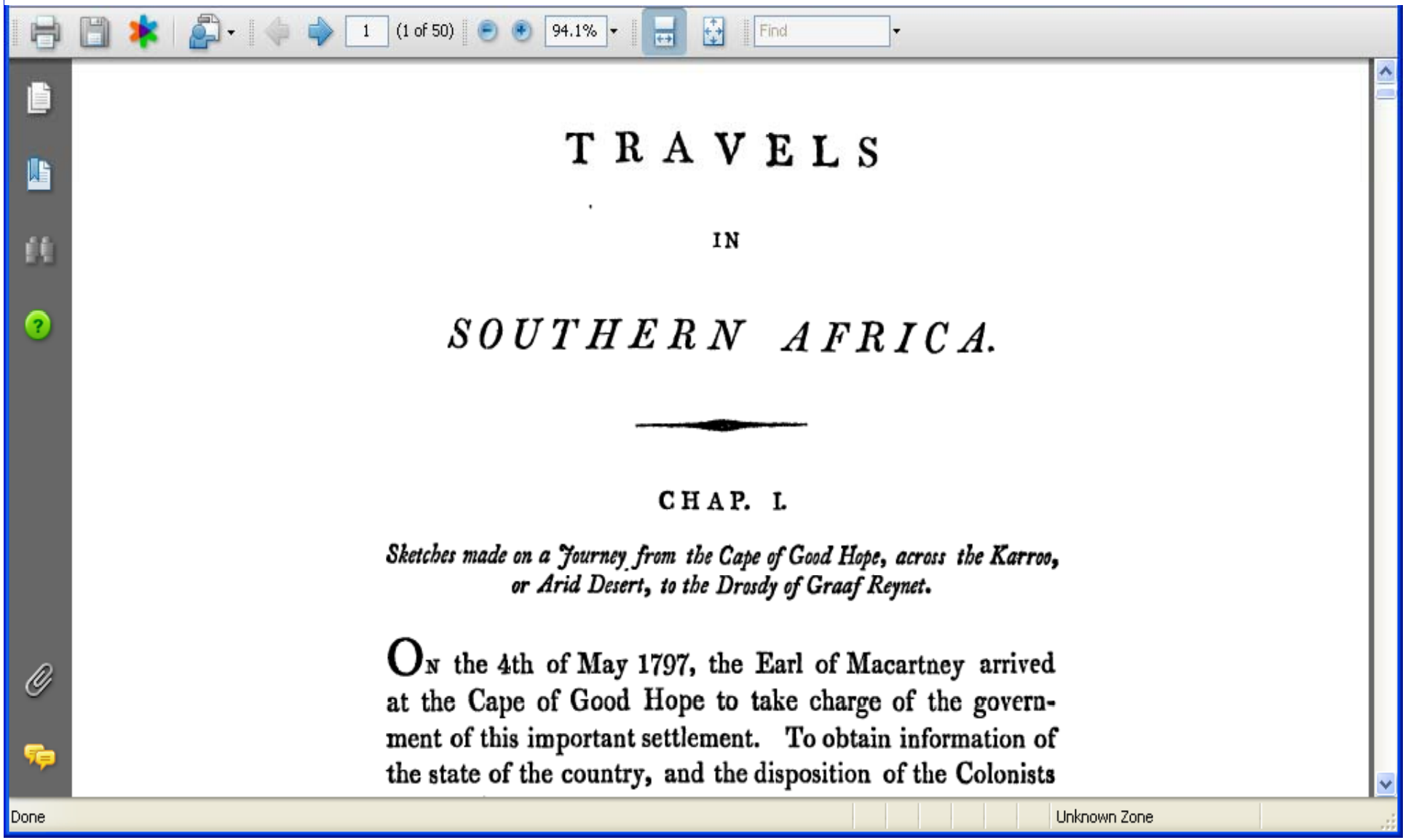
Computer Science



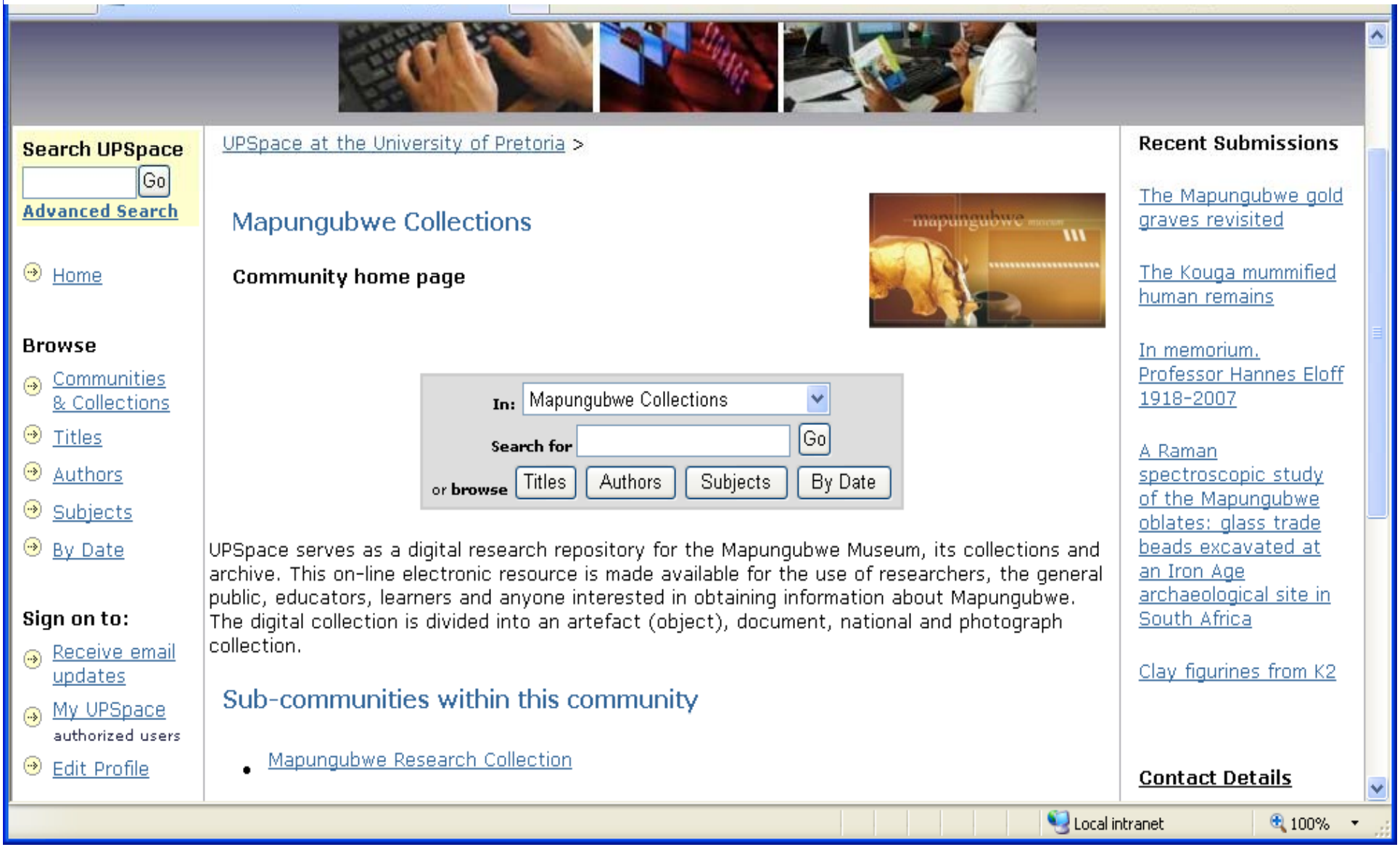
Industrial and Systems Engineering

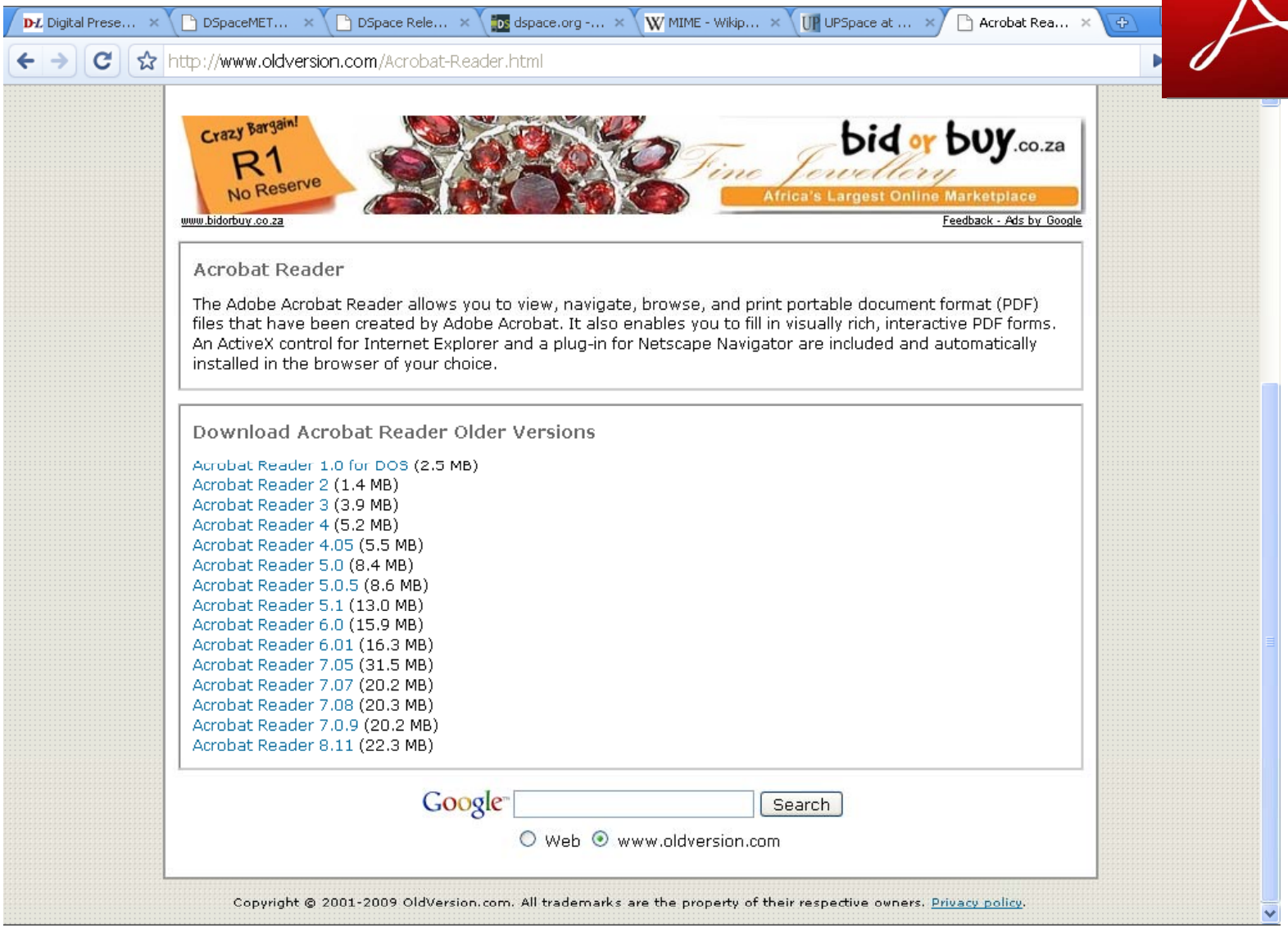


Digitised Out-of-Copyright Books



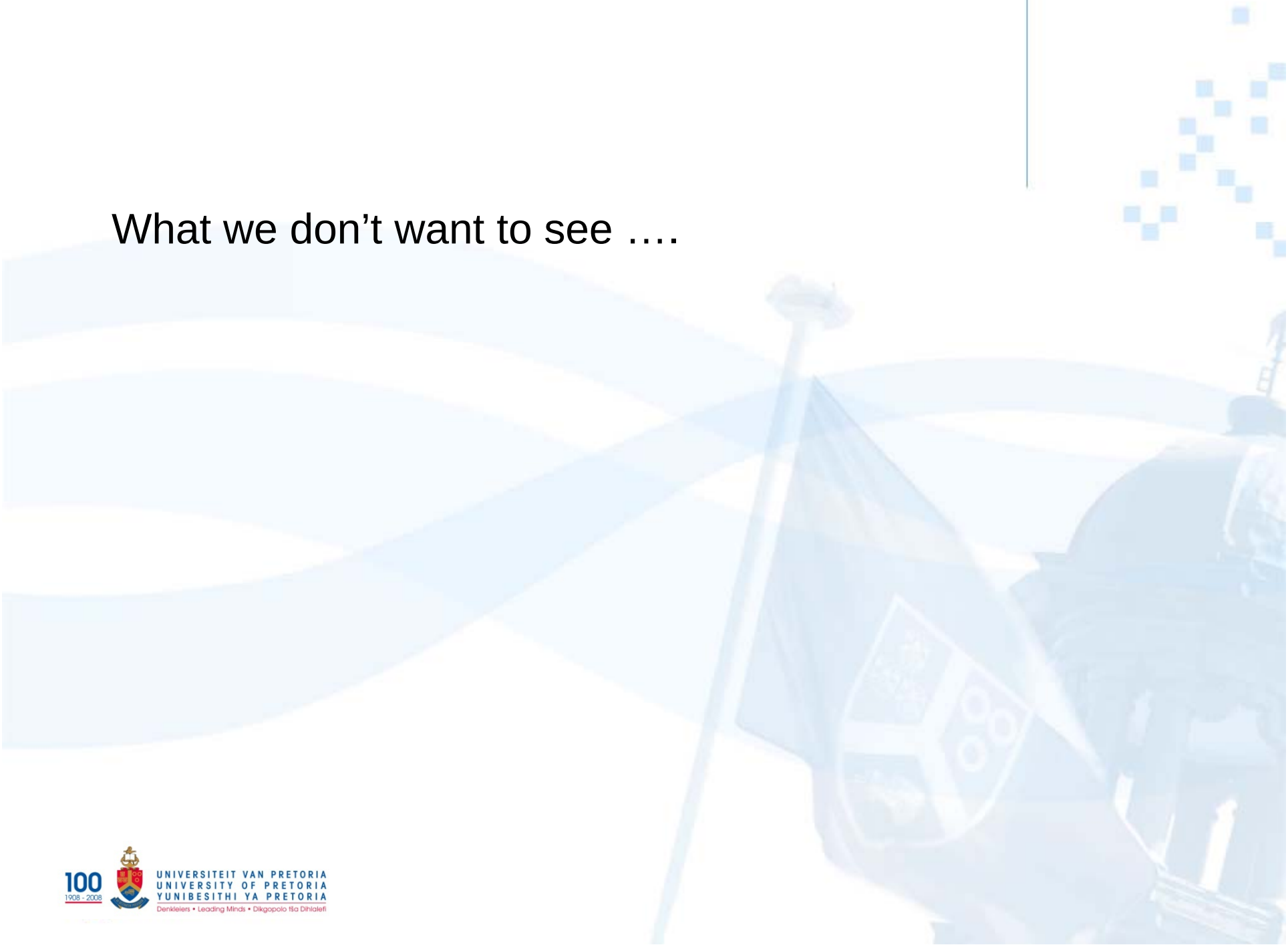
Mapungubwe


Search UPSpace
Go
Advanced Search
Home
Browse
Communities & Collections
Titles
Authors
Subjects
By Date
Sign on to:
Receive email updates
My UPSpace
authorized users
Edit Profile
UPSpace at the University of Pretoria >
Mapungubwe Collections
Community home page
In: Mapungubwe Collections
Search for
Go
or browse
Titles
Authors
Subjects
By Date
UPSpace serves as a digital research repository for the Mapungubwe Museum, its collections and archive. This on-line electronic resource is made available for the use of researchers, the general public, educators, learners and anyone interested in obtaining information about Mapungubwe. The digital collection is divided into an artefact (object), document, national and photograph collection.
Sub-communities within this community
Mapungubwe Research Collection
Recent Submissions
The Mapungubwe gold graves revisited
The Kouga mummified human remains
In memorium. Professor Hannes Eloff 1918-2007
A Raman spectroscopic study of the Mapungubwe oblates: glass trade beads excavated at an Iron Age archaeological site in South Africa
Clay figurines from K2
Contact Details
Local intranet
100%



http://www.oldversion.com/Acrobat-Reader.html

What we don’t want to see ….



Acrobat Reader
There was an error opening this document. Could not repair file.
OK

Adobe PDF Document
The Adobe Acrobat/Reader that is running can not be used to view PDF files in a Web Browser.
Adobe Acrobat/Reader version 8 or 9 is required. Please exit and try again.
OK

Golden rules for digital preservation on an institutional repository

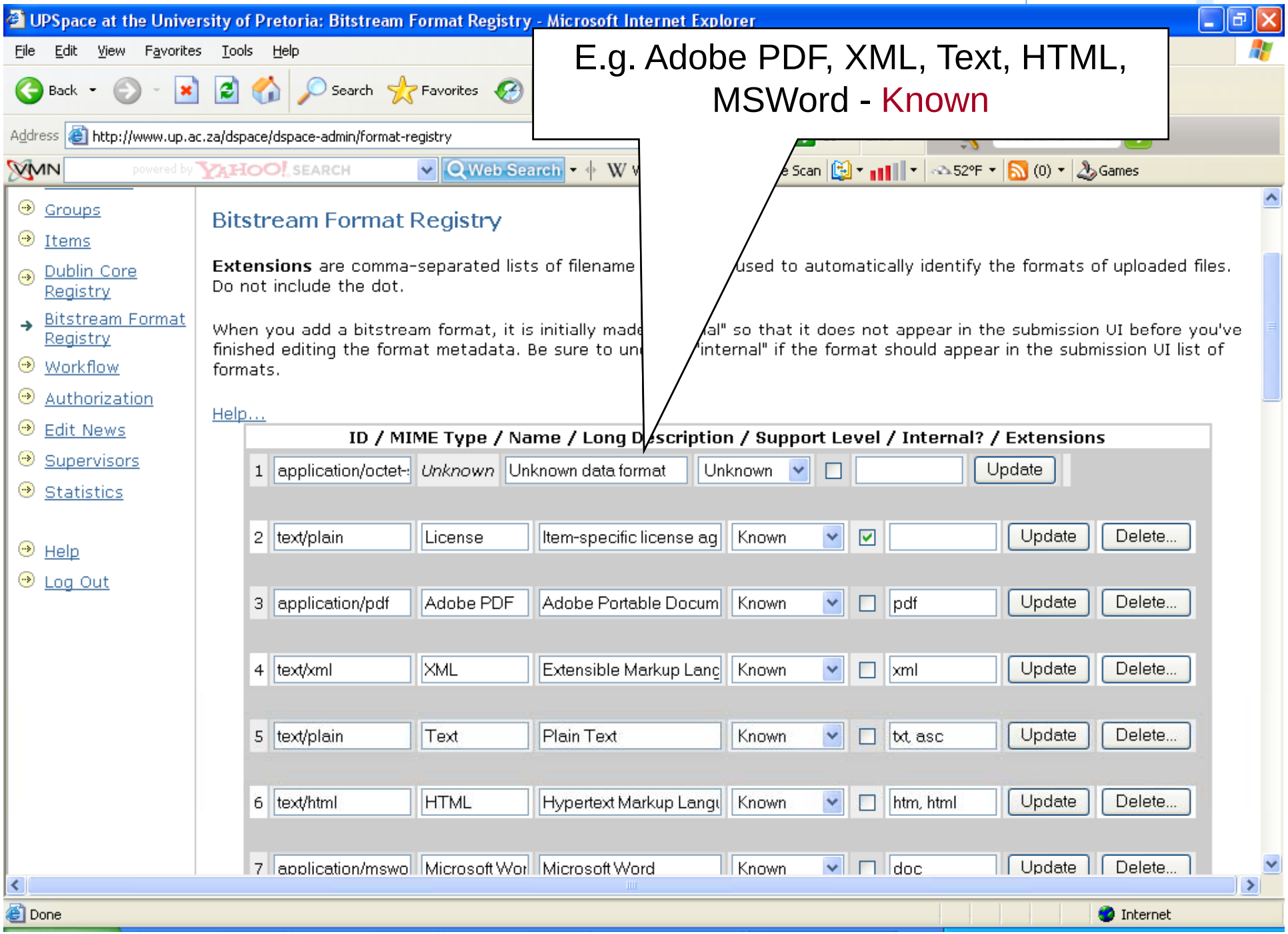
Image Source

100 1908 - 2008
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
Denkleiers • Leading Minds • Dikgopolo tša Dihlalefi

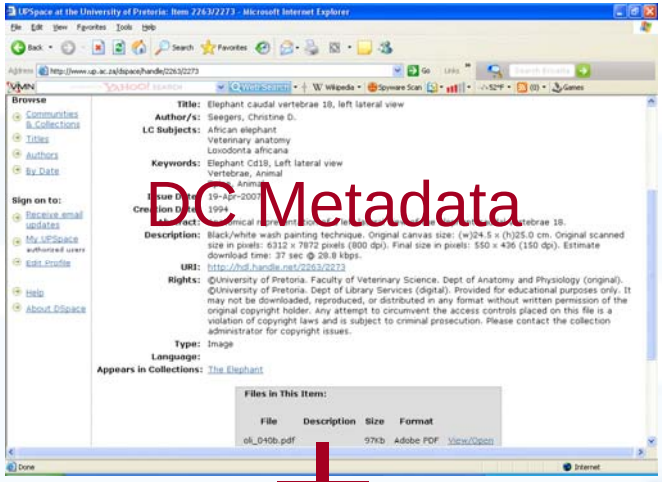
DSpace Commitment to Preservation

- Three levels of preservation for a given file format:
  - **Supported:** The format will be fully supported and preserved using either format migration or emulation techniques
  - **Known:** The format can be recognised by DSpace, but full support cannot be guaranteed
  - **Unsupported:** The format cannot be recognised by DSpace; these will be listed as "application/octet-stream", aka Unknown

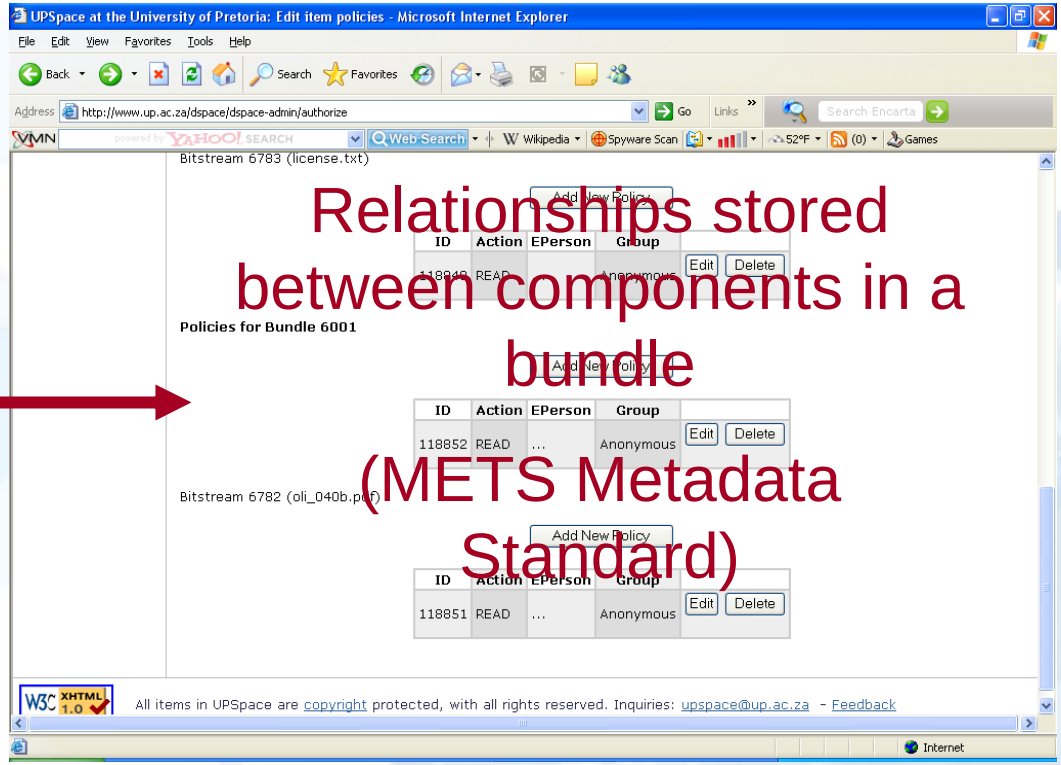
- Bit-level preservation will be done so that digital archaeologists of the future will have the raw material to work with if the material proves to be worth that effort.


E.g. Adobe PDF, XML, Text, HTML, MSWord - Known
UPSpace at the University of Pretoria: Bitstream Format Registry - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites
Address http://www.up.ac.za/dspace/dspace-admin/format-registry
Groups
Items
Dublin Core Registry
Bitstream Format Registry
Workflow
Authorization
Edit News
Supervisors
Statistics
Help
Log Out
Bitstream Format Registry
Extensions are comma-separated lists of filename
used to automatically identify the formats of uploaded files.
Do not include the dot.
When you add a bitstream format, it is initially made
al" so that it does not appear in the submission UI before you've
finished editing the format metadata. Be sure to un
internal" if the format should appear in the submission UI list of
formats.
Help...
ID / MIME Type / Name / Long Description / Support Level / Internal? / Extensions
1 application/octet- Unknown Unknown data format Unknown Update
2 text/plain License Item-specific license ag Known Update Delete...
3 application/pdf Adobe PDF Adobe Portable Docum Known pdf Update Delete...
4 text/xml XML Extensible Markup Lang Known xml Update Delete...
5 text/plain Text Plain Text Known txt, asc Update Delete...
6 text/html HTML Hypertext Markup Langu Known htm, html Update Delete...
7 application/mswo Microsoft Wor Microsoft Word Known doc Update Delete...
Done
Internet

Items in DSpace



+



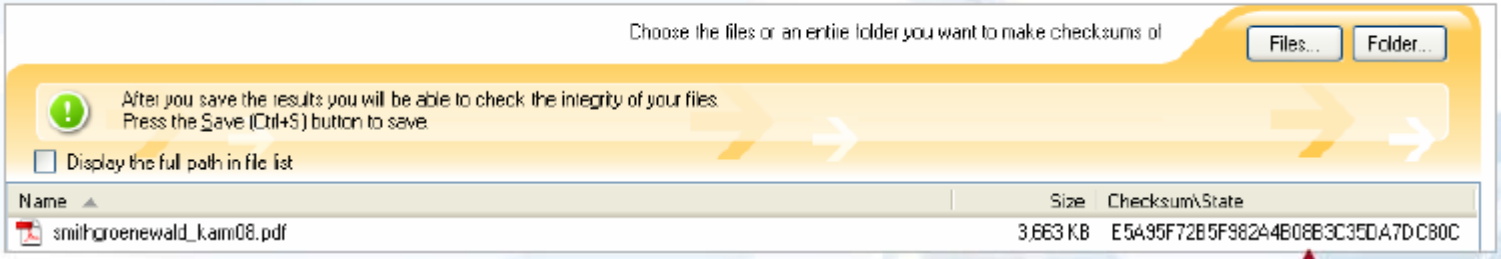
Relationships stored between components in a bundle (METS Metadata Standard)

File formats

- Recognise the preservation risks of file formats
- Store content in open format on IR – pdf + additional
- Specify restricted range of deposit formats
- XML to describe data and metadata
- For verification purposes original copy are available on Archival Server (TIFF)
- Migrate rare and obsolete file formats when needed – “spot checks”
- Maintain file format information

Checksums in *DSpace*

Checksum generated by Checksum software:



Identical to Checksum generated by DSpace (UPSpace):

File	Size	File Format	Checksum
smithgroenewald_karm08.pdf	3,751,421 bytes	Adobe PDF (known)	e5a95f72b5f982a4b08b3c35da7dc80c (MD5)

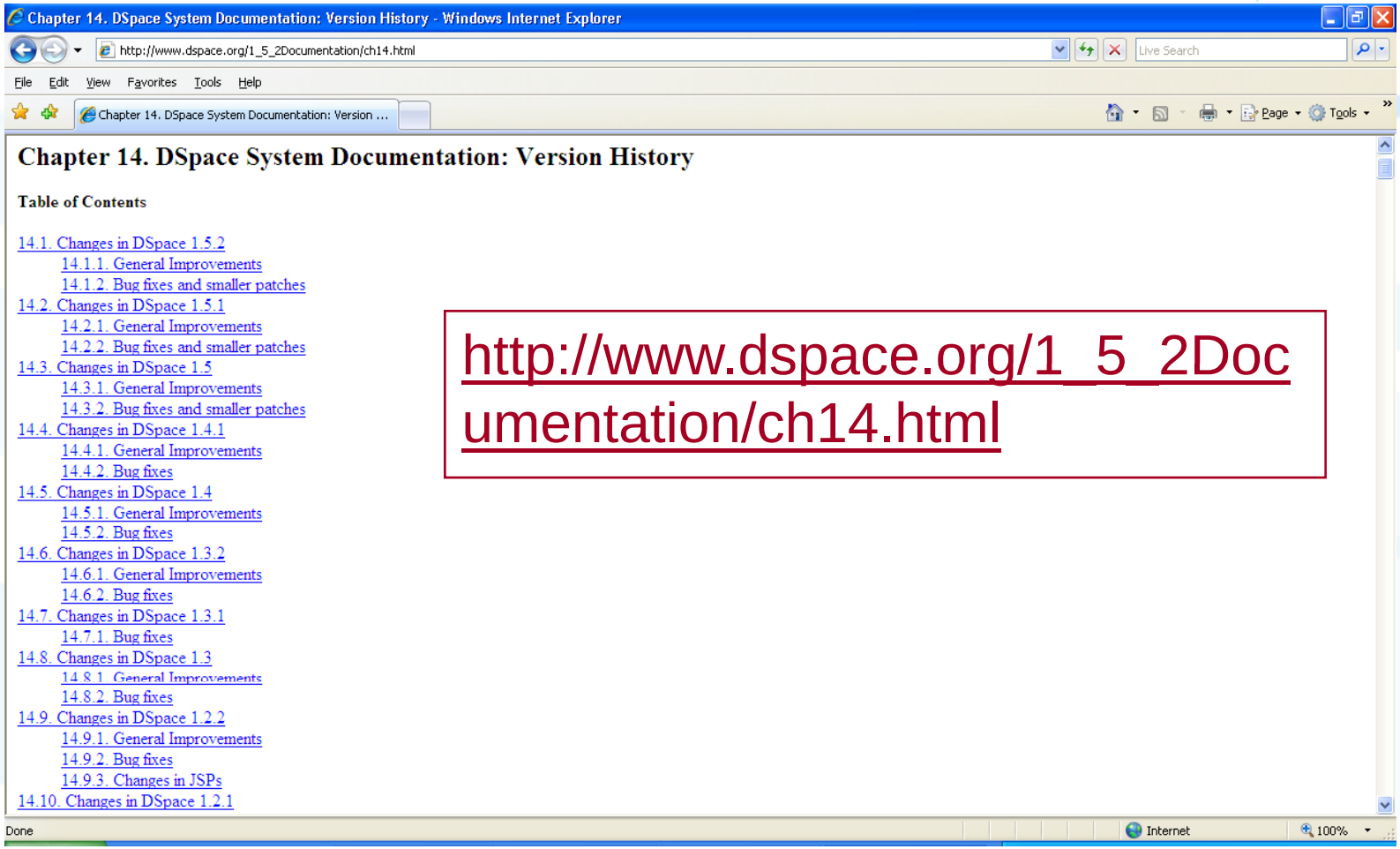
Storage Management

- Storage hardware is a key component of a repository
- SAN (Storage Area Network) vs NAS (Network Attached Storage)
  - Increased scalability: up to 16 million devices can be added
  - All other participants on SAN can connect and see each other
  - High-speed throughput: carry traffic between devices at 2 Gb/s
  - Independent of other network operations – functions separate from any LAN

Back-up’s

Image Source

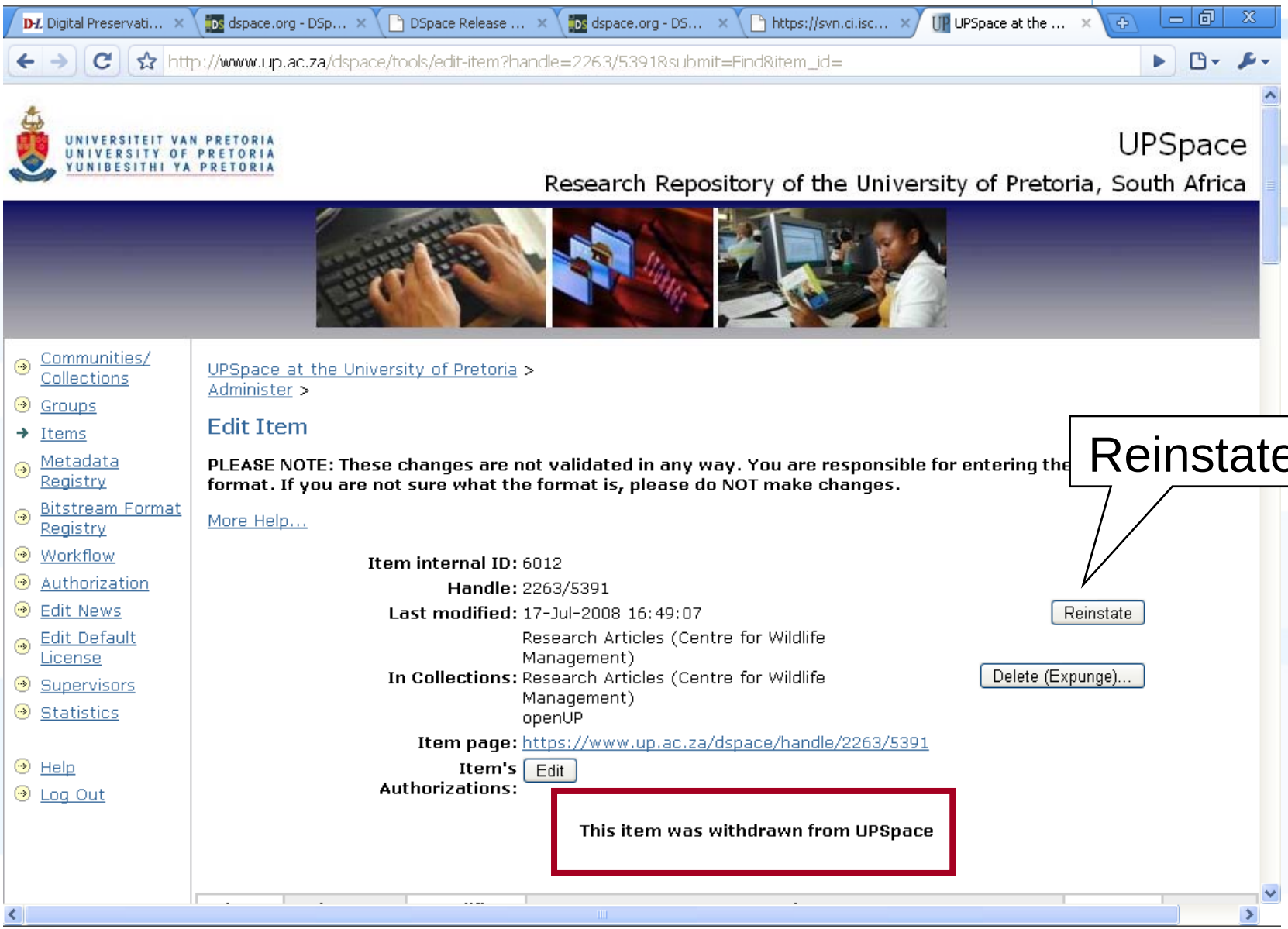
Migration to new versions of *DSpace*

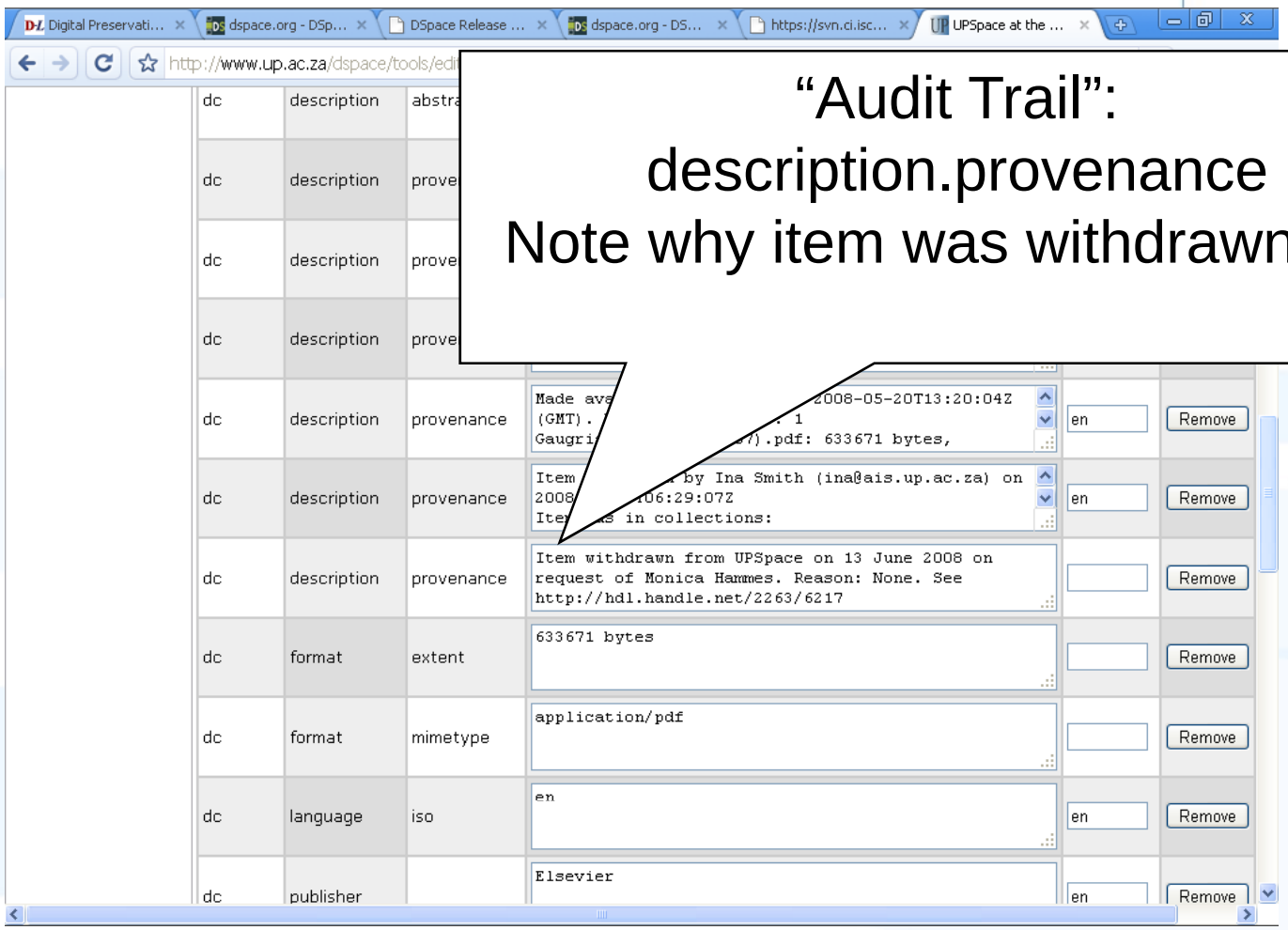


http://www.dspace.org/1_5_2Documentation/ch14.html

Managing corrupt files etc.

Image Source


Digital Preservati...
dspace.org - DSp...
DSpace Release ...
dspace.org - DS...
https://svn.ci.isc...
UPSpace at the ...
http://www.up.ac.za/dspace/tools/edit-item?handle=2263/5391&submit=Find&item_id=
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
UPSpace
Research Repository of the University of Pretoria, South Africa
Communities/ Collections
Groups
Items
Metadata Registry
Bitstream Format Registry
Workflow
Authorization
Edit News
Edit Default License
Supervisors
Statistics
Help
Log Out
UPSpace at the University of Pretoria >
Administer >
Edit Item
PLEASE NOTE: These changes are not validated in any way. You are responsible for entering the
format. If you are not sure what the format is, please do NOT make changes.
More Help...
Item internal ID: 6012
Handle: 2263/5391
Last modified: 17-Jul-2008 16:49:07
In Collections: Research Articles (Centre for Wildlife Management)
Research Articles (Centre for Wildlife Management)
openUP
Item page: https://www.up.ac.za/dspace/handle/2263/5391
Item's Authorizations: Edit
Reinstate
Delete (Expunge)...
This item was withdrawn from UPSpace
Reinstate



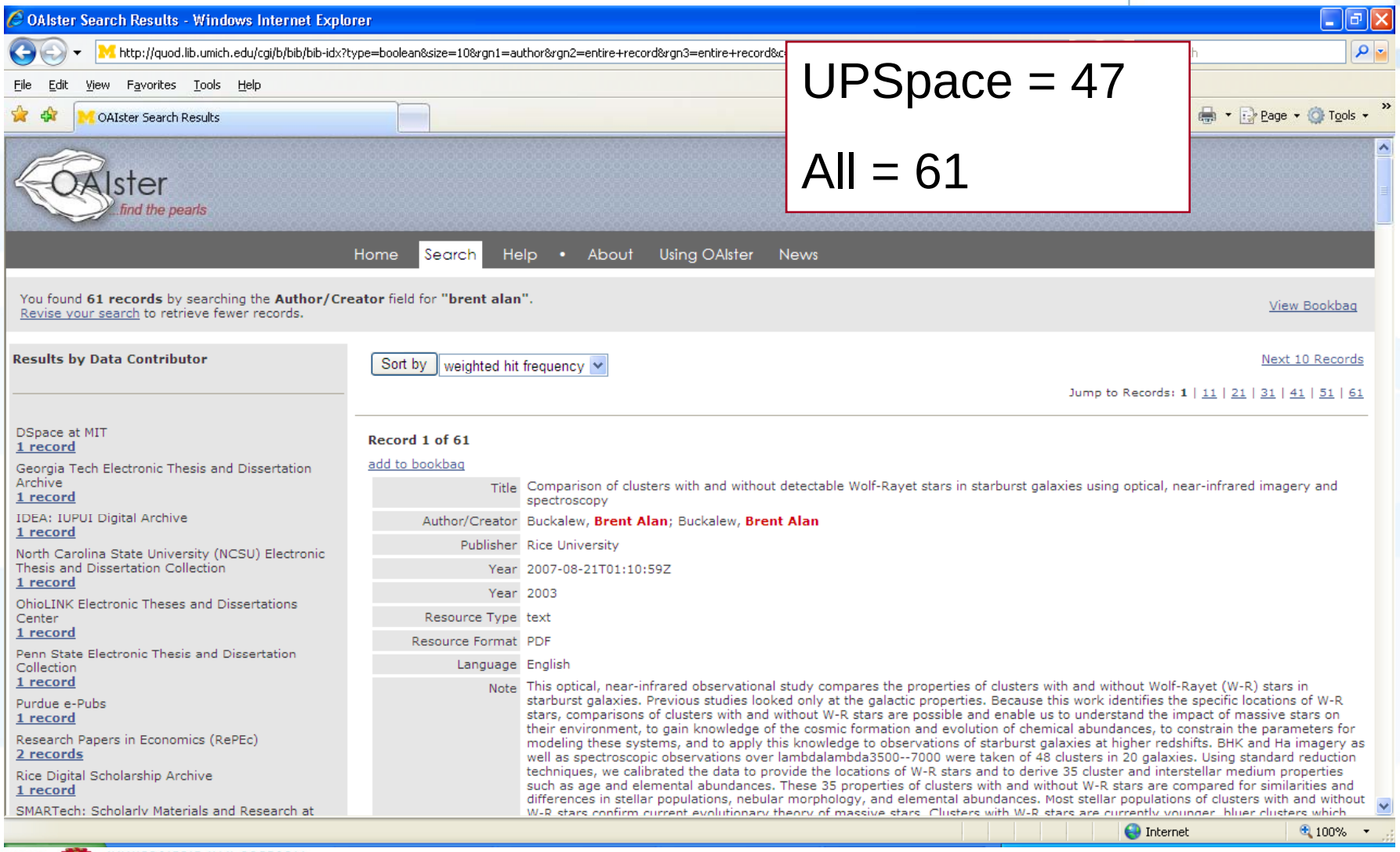
"Audit Trail":
description.provenance
Note why item was withdrawn etc.

Preservation Metadata

identifier	uri	http://hdl.handle.net/2263/4726
description	abstract	In this paper, an attempt will be made to examine the concept ataraxia as it appears in the works of Pyrro of Elis, Sextus Empiricus and
description	provenance	Scanned in 24-bit descreened colour 100% on DigiBookRGB10000 scanner at 400 dpi.
description	provenance	Submitted by Ina Smith (ina@ais.up.ac.za) on 2008-03-13T11:59:46Z No. of bitstreams: 1
description	provenance	Approved for entry into archive by Julene Vermeulen(julene.vermeulen@up.ac.za) on 2008-03-14T06:03:00Z (GMT) No. of bitstreams: 1
description	provenance	Made available in DSpace on 2008-03-14T09:00:22Z (GMT). No. of bitstreams: 1 PHv1_Wilkinson-009.pdf: 145337 bytes, checksum:

format	extent	145337 bytes
format	mimetype	application/pdf

OAI-PMH Compliant



UPSpace = 47

All = 61

OAIster [OCLC] - Windows Internet Explorer
http://www.oclc.org/us/en/news/releases/20096.htm
Live Search
File Edit View Favorites Tools Help
OAIster [OCLC]
Page Tools
OCLC
The world's libraries. Connected.
Search:
Go
United States (English) Change
About OCLC News and Events Contact us
Home
WorldCat
Community and Membership
Products and Services
Programs and Research
News releases
News releases
University of Michigan and OCLC form partnership to ensure long-term access to OAIster database
DUBLIN, Ohio, USA, 21 January 2009—The University of Michigan and OCLC today announced that they have formed a partnership that will ensure continued public access to open-archive collections through the OAIster database, and will expand the visibility of these collections to millions of information seekers through OCLC services.
Launched in 2002 with grant support from the Andrew W. Mellon Foundation, OAIster was developed to test the feasibility of building a portal to open archive collections using the Open Archives Initiative Protocol for Metadata Harvesting (OAI-PMH). OAIster has since grown to become one of the largest aggregations of records pointing to open archive collections in the world with over 19 million records contributed by over 1,000 organizations worldwide.
Under the partnership, OAIster.org will continue to function as the public interface to OAIster collections, through funding provided by OCLC to the University of Michigan. Later in 2009, metadata harvesting operations will transfer from the University of Michigan to OCLC.
"The University of Michigan approached OCLC about managing future operations for the OAIster project to ensure its long-term viability," said John Wilkin, Associate University Librarian, University of Michigan Library. "OCLC plays a pivotal role in the business of metadata creation and distribution. Situating OAIster with OCLC helps to create an
For more information:
Bob Murphy
E murphyb@oclc.org
T +1-614-...
See also:
BOOKMARK
RSS FEED
Internet
100%

Persistent Identifiers

- Web references are untrustworthy; telephone numbers, IP addresses, Social Security numbers share properties of PID's – more trustworthy
- **Persistent Identifiers:** globally unique name assigned to a digital object that can be used in perpetuity, to refer to and to retrieve the digital object
- CNRI Handle System

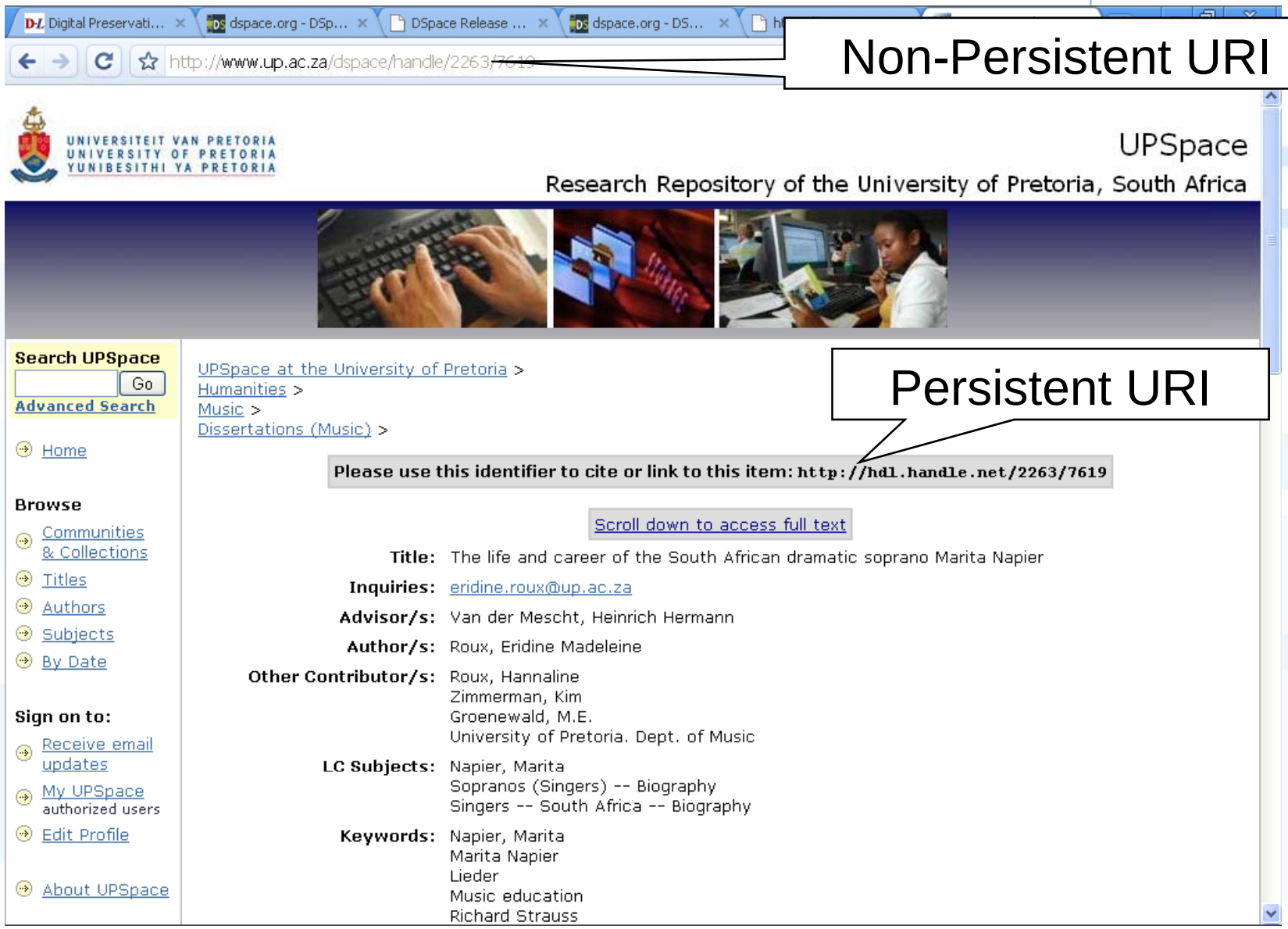
CNRI Handle Server

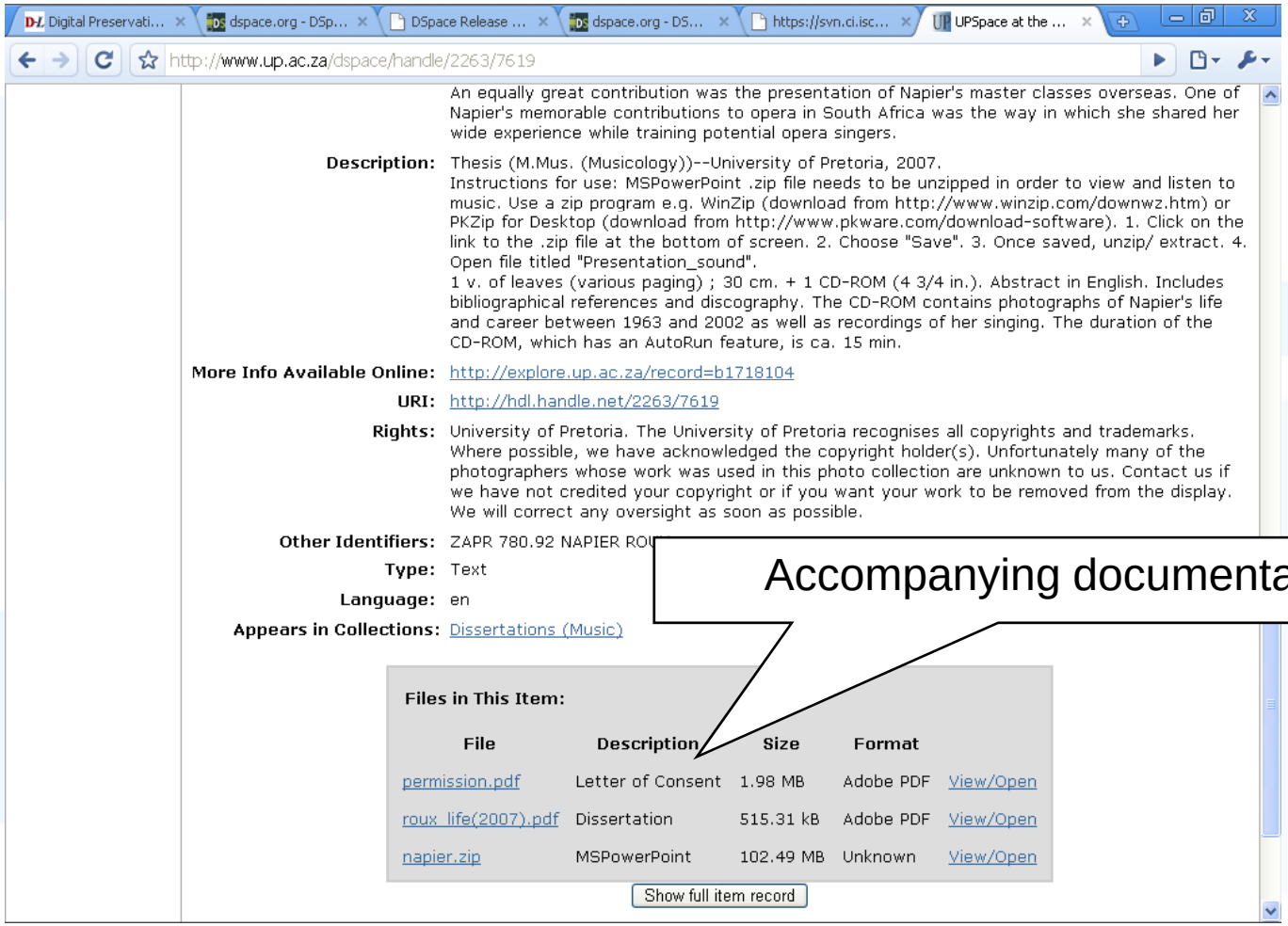
"A **system for assigning names to objects for name resolution**"

"The Handle System is a general purpose distributed information system that provides **efficient, extensible, and secure HDL identifier and resolution services for use on networks such as the Internet**. It includes an open set of protocols, a namespace, and a reference implementation of the protocols. The protocols enable a distributed computer system to store identifiers, known as handles, of arbitrary resources and resolve those handles into the information necessary to locate, access, contact, authenticate, or otherwise make use of the resources. This information can be changed as needed to reflect the current state of the identified resource without changing its identifier, thus allowing the name of the item to persist over changes of location and other related state information. The original version of the Handle System technology was developed with support from the Defense Advanced Research Projects Agency (DARPA)."

CNRI Handle Server

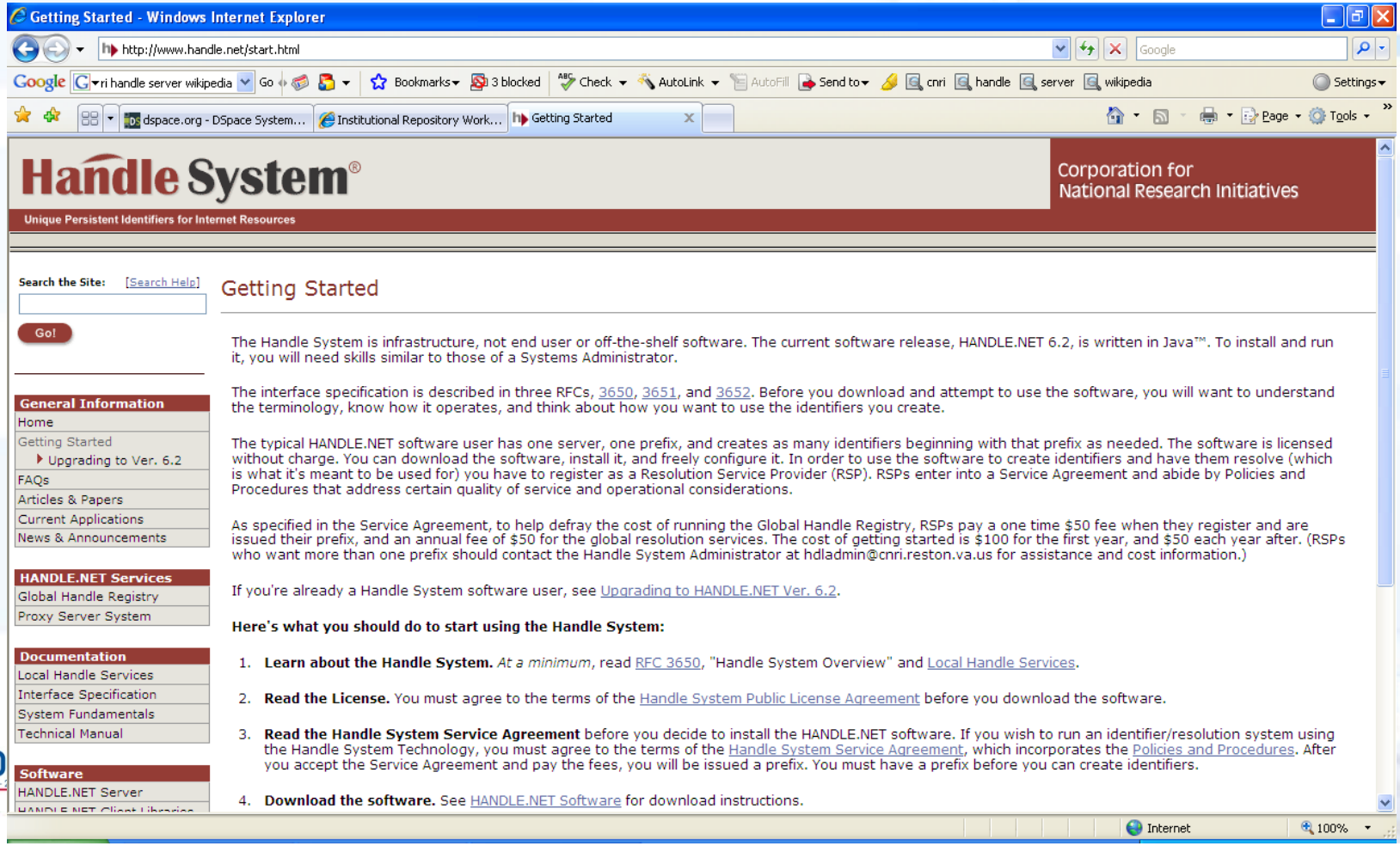
- UP Handle: http://hdl.handle.net/**2263**/2882
- UJ Handle: http://hdl.handle.net/**10210**/622
- DUT Handle: http://hdl.handle.net/**10321**/298
- CSIR Handle: http://hdl.handle.net/**10204**/2091


Non-Persistent URI
http://www.up.ac.za/dspace/handle/2263/7619
UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA
UPSpace
Research Repository of the University of Pretoria, South Africa
Search UPSpace
Go
Advanced Search
Home
Browse
Communities & Collections
Titles
Authors
Subjects
By Date
Sign on to:
Receive email updates
My UPSpace authorized users
Edit Profile
About UPSpace
UPSpace at the University of Pretoria >
Humanities >
Music >
Dissertations (Music) >
Persistent URI
Please use this identifier to cite or link to this item: http://hdl.handle.net/2263/7619
Scroll down to access full text
Title: The life and career of the South African dramatic soprano Marita Napier
Inquiries: eridine.roux@up.ac.za
Advisor/s: Van der Mescht, Heinrich Hermann
Author/s: Roux, Eridine Madeleine
Other Contributor/s: Roux, Hannaline
Zimmerman, Kim
Groenewald, M.E.
University of Pretoria. Dept. of Music
LC Subjects: Napier, Marita
Sopranos (Singers) -- Biography
Singers -- South Africa -- Biography
Keywords: Napier, Marita
Marita Napier
Lieder
Music education
Richard Strauss

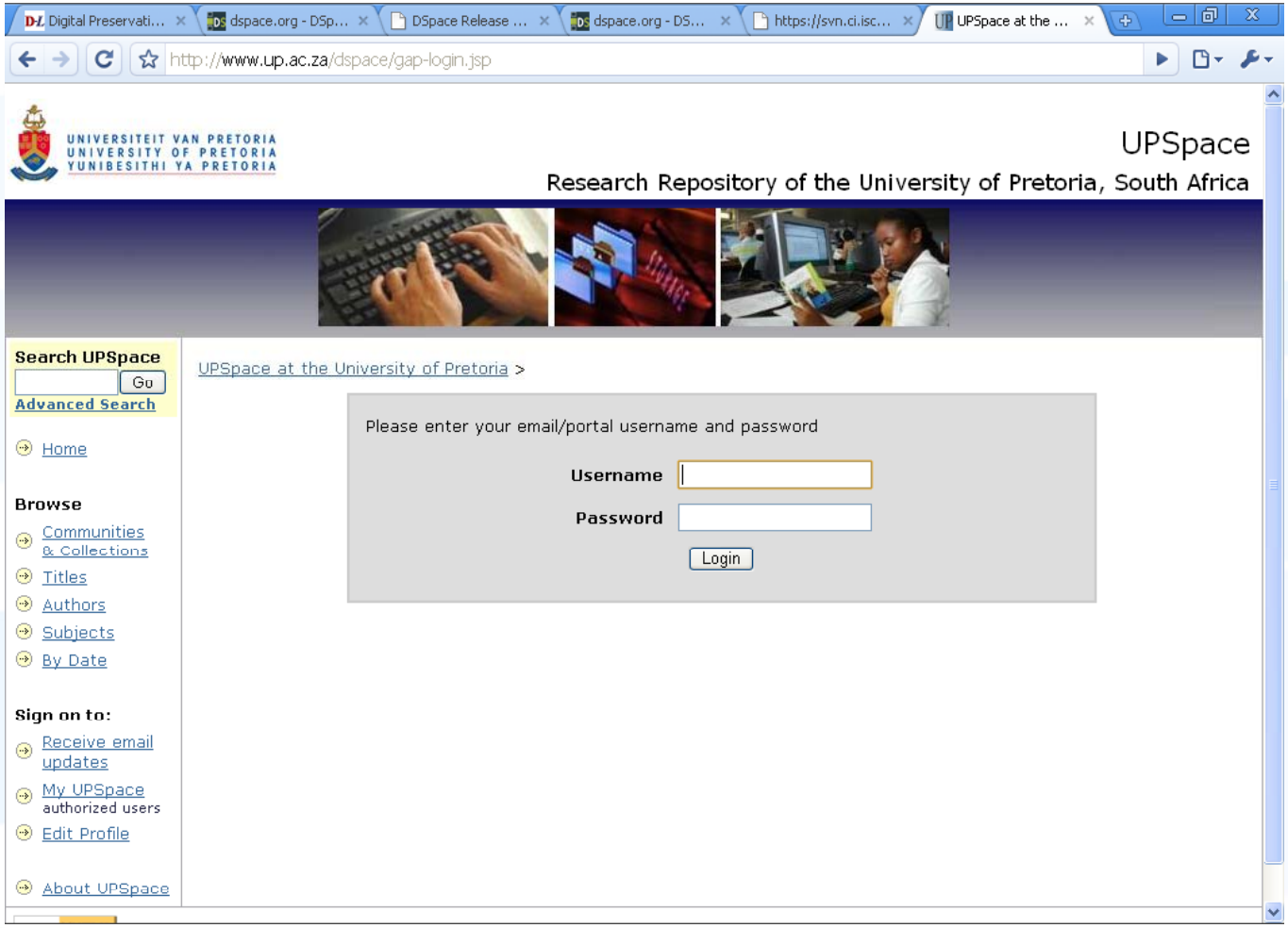

Digital Preservati...
dspace.org - DSp...
DSpace Release ...
dspace.org - DS...
https://svn.ci.isc...
UPSpace at the ...
http://www.up.ac.za/dspace/handle/2263/7619
An equally great contribution was the presentation of Napier's master classes overseas. One of Napier's memorable contributions to opera in South Africa was the way in which she shared her wide experience while training potential opera singers.
Description: Thesis (M.Mus. (Musicology))--University of Pretoria, 2007.
Instructions for use: MSPowerPoint .zip file needs to be unzipped in order to view and listen to music. Use a zip program e.g. WinZip (download from http://www.winzip.com/downwz.htm) or PKZip for Desktop (download from http://www.pkware.com/download-software). 1. Click on the link to the .zip file at the bottom of screen. 2. Choose "Save". 3. Once saved, unzip/ extract. 4. Open file titled "Presentation_sound".
1 v. of leaves (various paging) ; 30 cm. + 1 CD-ROM (4 3/4 in.). Abstract in English. Includes bibliographical references and discography. The CD-ROM contains photographs of Napier's life and career between 1963 and 2002 as well as recordings of her singing. The duration of the CD-ROM, which has an AutoRun feature, is ca. 15 min.
More Info Available Online: http://explore.up.ac.za/record=b1718104
URI: http://hdl.handle.net/2263/7619
Rights: University of Pretoria. The University of Pretoria recognises all copyrights and trademarks. Where possible, we have acknowledged the copyright holder(s). Unfortunately many of the photographers whose work was used in this photo collection are unknown to us. Contact us if we have not credited your copyright or if you want your work to be removed from the display. We will correct any oversight as soon as possible.
Other Identifiers: ZAPR 780.92 NAPIER ROU
Type: Text
Language: en
Appears in Collections: Dissertations (Music)
Files in This Item:
File
Description
Size
Format
permission.pdf
Letter of Consent
1.98 MB
Adobe PDF
View/Open
roux_life(2007).pdf
Dissertation
515.31 kB
Adobe PDF
View/Open
napier.zip
MSPowerPoint
102.49 MB
Unknown
View/Open
Show full item record
Accompanying documentation

Request a Handle Prefix from CNRI

http://www.handle.net/start.html



Controlled access



Tools

DRAMBORA http://www.repositoryaudit.eu
Digital Repository Audit Method Based on Risk Assessment Toolkit

Conclusion

- Old wine and old friends are best?
- Turn water into wine
- Only a few wines improve with age, and only a few of those accrue any significant value
- The older the wine – the more precious/ valuable
- New cellar/ cabinet sometime in future?

Oldest bottle of wine

Unearthed during excavation for building a house in a vineyard near the town of Speyer, Germany, it was inside one of two Roman stone sarcophaguses that were dug up. The **bottle dates from approximately 325 A.D.** and was found in 1867. Image Source

"Inventing the future requires **giving up control**. No one with a compelling purpose and a great vision knows how it will be achieved. One has to be **willing to follow an unknown path, allowing the road to take you where it will**. **Surprise, serendipity, uncertainty** and the **unexpected** are guaranteed on the way to the future."

George Land, Breakpoint & Beyond

References

- Jantz, R. & Giarlo, M.J. (2005). *Digital preservation: architecture and technology for trusted digital repositories.* URL: http://www.dlib.org/dlib/june05/jantz/06jantz.html
- Lynch, C. (2003). *Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age.* URL: http://www.arl.org/newsltr/226/ir.html
- *Reference Model for an Open Archival Information System (OAIS).* URL:

  http://public.ccsds.org/publications/archive/650x0b1.pdf
- *Trusted Digital Repositories: Attributes and Responsibilities. An RLG-OCLC Report.* URL: http://www.oclc.org/programs/ourwork/past/trustedrep/repositories.pdf

Thank you!

ina.smith@up.ac.za