

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



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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

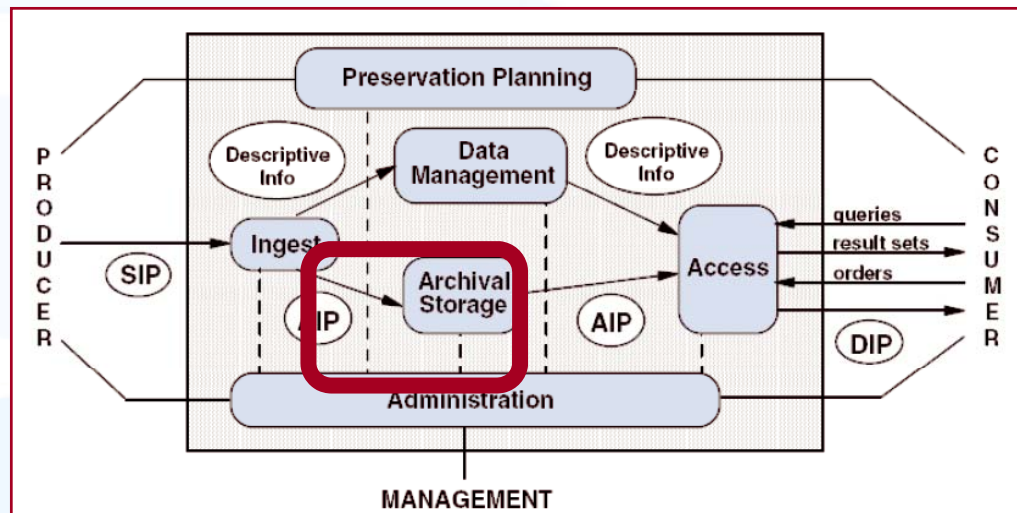
- Compliance with the *Reference Model for an Open Archival Information System (OAIS)*
- Administrative responsibility
- Organizational viability
- Financial sustainability
- Technological & procedural suitability
- System security
- Procedural accountability

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.



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/>

Top Reasons to Use DSpace

Largest community of users & developers worldwide [more](#)

Free open source software [more](#)

Completely customizable to fit your needs [more](#)

Can manage & preserve all types of digital content –
text, images, moving images, datasets [more](#)

Used by educational, government, private &
commercial institutions [more](#)

Can be installed “out of the box” [more](#)

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>

The screenshot shows a web browser window displaying the DSpace website. The page features a navigation menu with links for 'ABOUT DSPACE', 'GETTING INVOLVED', 'SOFTWARE', 'RESOURCES', and 'COMMUNITY'. The main content area is titled 'DSpace Foundation and Fedora Commons Join Together to Create DuraSpace Organization' and includes a date of 'May 12, 2009'. The text describes the joint announcement by Fedora Commons and the DSpace Foundation, highlighting their shared mission to provide open source software for digital content management. Contact information for Carol Minton Morris, Michele Kimpton, and Sandy Payette is provided. The page also includes a sidebar with links for 'New To DSpace?', 'Getting Started', 'Project Wiki', and 'Newsfeed'.

DSpace Foundation and Fedora Commons Join Together to Create DuraSpace Organization
May 12, 2009

"Fedora Commons and the DSpace Foundation, two of the largest providers of open source software for managing and providing access to digital content, have announced today that they will join their organizations to pursue a common mission."
FOR IMMEDIATE RELEASE
May 12, 2009
Contact: Carol Minton Morris, clt6@cornell.edu, (607) 255-2702
Contact: Michele Kimpton, michele@dspace.org
Contact: Sandy Payette, spayette@fedora-commons.org

Ithaca, NY, Boston, MA --- Fedora Commons and the DSpace Foundation, two of the largest providers of open source software for managing and providing access to digital content, have announced today that they will join their organizations to pursue a common mission. Jointly, they will provide leadership and innovation in open source technologies for global communities who manage, preserve, and provide access to digital content.

The joined organization, named "DuraSpace," will sustain and grow its flagship repository platforms - Fedora and DSpace. DuraSpace will also expand its portfolio by offering new technologies and services that respond to the dynamic environment of the Web and to new requirements from existing and future users. DuraSpace will focus on supporting existing communities and will also engage a larger and more diverse group of stakeholders in support of its not-for-profit mission. The organization will be led by an executive team consisting of Sandy Payette (Chief Executive Officer), Michele Kimpton (Chief Business Officer), and Brad McLean (Chief Technology Officer) and will operate out of offices in Ithaca, NY and Cambridge, MA.

"This is a great development," said Clifford Lynch, Executive Director of the Coalition for Networked Information (CNI). "It will focus resources and talent in a way that should really accelerate progress in areas critical to the research, education, and cultural memory communities. The new emphasis on distributed reliable storage infrastructure services and their integration with repositories is particularly timely."

Together Fedora and DSpace make up the largest market share of open repositories worldwide, serving over 700 institutions. These include organizations committed to the use of open source software solutions for the dissemination and preservation of



- “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/>

The screenshot shows a web browser window with the URL <http://www.up.ac.za/dspace/>. The page header includes the University of Pretoria logo and the text "UPspace Research Repository of the University of Pretoria, South Africa". Below the header is a navigation bar with three images: hands on a keyboard, a laptop, and a person at a computer. The main content area is divided into three columns. The left column contains a search box, a "Home" link, a "Browse" section with links for Communities & Collections, Titles, Authors, Subjects, and By Date, and a "Sign on to:" section with links for email updates, My UPspace, Edit Profile, and About UPspace. The middle column features a welcome message, the number of archived items (7,798), and a list of communities such as Centre for the Study of AIDS (CSA), Community Engagement, and others. The right column includes a chat box, a "Search other repositories" section with links to IRSpace, SciELO, DAISTER, Google Scholar, and NDLTD, and a section about Open Access and becoming part of the UPspace community. A footer at the bottom left shows the 100th anniversary logo of the University of Pretoria (1908-2008) and its motto.

Digitally born & digitized material



CLINICAL IMAGES

Awaking a sleeping epidemic

Riaan van Collier, Elna van Rensburg, Clara Schutte, Delese 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 5 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.

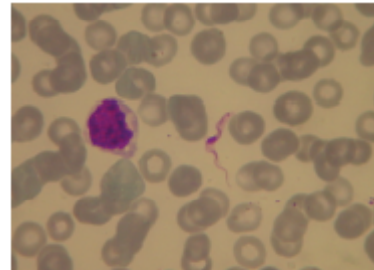


Fig. 1. Giemsa smear (case 1) showing extracellular trypanosomes present in the peripheral blood.

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 chance. 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



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

**THE ROLE OF EXTENSION IN TRADITIONAL AGRICULTURE :
EVIDENCE FROM THE FARMER SUPPORT PROGRAMME¹**

J F Kirsten², J van Zyl³ and HJ Sartorius van Bach⁴

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 geïmplimanteer is. Die belangrikheid en bydrae van voorligting en opleiding in die sukses van hierdie program bly 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 geïmplimanteer 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 manner² (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

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>gi|73624990|gb|DQ103533.1| Botryosphaeria rhodina strain CMW9074 18S ribosomal RNA gene
GGAAGGATCATTACCGAGTTTTCGAGCTCCGGCTCGACTCTCCACCCTTTGTGAAAGTACCTCTGTTGC
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CGGTTGGCGTCCGCCCGG&A&CCTTCTGA&CTTTTCTCA&AGTTG&ACCTCGGAT
```

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

From: Elsabe Olivier [elsabe.olivier@up.ac.za]
Sent: 17 February 2006 11:49
To: Ina Smith
Subject: Kopieregtoestemming van SA Media 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 aanwoord oor kopiereg? Jonathan Jansen Collection

> Elsabe,
> In ooreg 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.

Windows Media Player

SA Media - The University of the Free State

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**

John van Kesteren

The new between wheat farmers and large buyers of grain over an application for a tariff on imported wheat has reopened the debate on whether we need to protect our farmers against foreign competition. Already a heated issue, the new proposal again after the 1994 Marrakesh agreement.

In the WTO the majority of SA's tariff lines were zero or below 10% ad valorem, reflecting our liberalised trade regime.

Many argue that SA was too quick in liberalising trade and failed to take into account the shedding of jobs and other negatives because not all major trading nations followed similar reform schedules. As a result, today SA has one of the most open economies in the world.

In the WTO the battle for free trade in agricultural commodity markets has not been won, and high levels of agricultural subsidies and protection remain in the European Union and the US. This creates an uneven playing field, which is the main reason why SA farmers are disadvantaged.

Various studies argue that the removal of trade-distorting agricultural policies of developed countries would result in higher world agricultural commodity prices. For example, the world wheat price would increase by 14% if global export subsidies and domestic support were removed and import tariffs reduced.

But, through the last reform programme, is trying to establish a group of farmers which does not have much experience in agriculture or world agricultural markets. It could, therefore, well be asked whether it is fair to expose these emerging (black) farmers to this volatile playing field. Why should they not enjoy some form of protection against these world forces as they try to get their farming enterprises up and running? While commercial farmers had this protection for years and though it protected inefficiency, it at least provided a cushion to start competing effectively.

In terms of WTO rules SA's tariff bound rates are much higher than our current tariff levels, leaving substantial room for tariff increases without compromising WTO commitments.

It is important to note the welfare effects of import commitments, the critical question to answer is: what is the real impact of this increase on consumer prices? In a recent study conducted by the University of Pretoria's Bureau for Food & Agricultural Policy Research, it was found that an increase in the wheat import tariff from the current level of 7% of the world price of wheat to 10% would increase the domestic wheat price by R137. Linking this increase to a price transmission model showed an increase in the cost of flour of R160, which would result

Papers in refereed published conference proceedings

UPSpace at the University of Pretoria: 27th Annual Southern African Transport Conference 2008 - Windows Internet Explorer

https://www.up.ac.za/dspace/handle/2263/6018

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Programme Opening Session

Visser, Alex T.	Introduction
Dahali, Peter	Welcome

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[Introduction of new road pavement response modelling software by means of benchmarking](#)

[Some fundamental definitions of the elastic parameters for homogenous isotropic linear materials in road design and analysis](#)

[Integrated rural mobility and access: mainstreaming environmental issues in community transport planning and construction projects](#)

[Unpacking the relationship between rural healthcare, mobility and access](#)

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Chapters from Books

UPSpace at the University of Pretoria: African regional human rights system - Windows Internet Explorer

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Title: African regional human rights system
Inquiries: [University of Pretoria Law Library](#)
Author/s: Heyns, C.H. (Christof H.)
Killander, Magnus
Editor/s: Gomez Isa, Felipe
De Feyter, Keon
LC Subjects: African Commission on Human and Peoples' Rights
Human rights -- Africa
African Peer Review Mechanism
Keywords: African Union
African Court on Human and Peoples' Rights
APRM
Issue Date: 2006
Publisher: University of Deusto, Bilbao
Citation: Heyns, C & Killander, M 2006 'The African regional human rights system', in Gómez Isa, F & De Feyter, K (eds.), International protection of human rights: achievements and challenges, University of Deusto, Bilbao.
Abstract: This contribution first introduces the main legal instruments relevant to the continental protection of human rights in Africa, then discusses the norms recognised (individual and peoples'

Working Papers

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Jump to a point in the index: (Choose month) (Choose year)

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Ordering With Most Recent First [Show Oldest First](#)

Showing items 1-21 of 68. [Next page](#)

Issue Date	Title	Author(s)
Sep-2008	Forecasting macroeconomic variables in a small open economy : a comparison between small- and large-scale models	Rangan.Gupta@up.ac.za; Gupta, Rangan; Kabundi, Alain
Aug-2008	Optimal public policy with endogenous mortality	Rangan.Gupta@up.ac.za; Gupta, Rangan; Ziramba, Emmanuel
Aug-2008	Finding the optimum level of taxes in South Africa : a balanced budget approach	Van Heerden, Yolande; Schoeman, Nicolaas J.
Jul-2008	Half-life deviations from PPP in the SADC	Rangan.Gupta@up.ac.za; Mokoena, Thabo; Gupta, Rangan; Van Eyden, Renee
Jul-2008	Exchange rate puzzles : a review of the recent theoretical	Rangan.Gupta@up.ac.za; Mokoena, Thabo;

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Annual Reports

UPSpace at the University of Pretoria: Department of Education Innovation Annual Report 2007 - Windows Internet Explorer

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 Annual Reports (Education Innovation) >

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Title: Department of Education Innovation Annual Report 2007
Author/s: Fresen, Jill Winifred
Other Contributor/s: Mans, Hettie
 Moloney, Melita
LC Subjects: Education Innovation -- University of Pretoria -- Annual reports
 Educational innovations
Keywords: Annual reports
 University of Pretoria -- Dept. of Education Innovation -- Annual reports
Issue Date: 2007
Publisher: Department for Education Innovation, University of Pretoria
URI: <http://hdl.handle.net/2263/7495>
Rights: Department for Education Innovation, University of Pretoria
Type: Text
Language: en
Appears in Collections: [Annual Reports \(Education Innovation\)](#)

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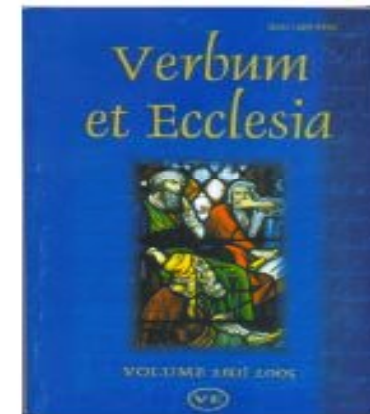
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Verbum et Ecclesia is the academic journal of the Dutch Reformed Church at the [Faculty of Theology, University of Pretoria](#). It is accredited by the South African National Department of Education, has an international board of editors, and all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

Vision

eBook

<p>ADAMASTOR</p> <p>Spirit of the Cape of Storms Espírito do Cabo das Tormentas Gees van die Stormkaap</p> <p>O.J.O. FERREIRA</p> <p>translated into the English by Roger C. Fisher</p> <p>traduzido para Português por Edna Peres, Giulia Picard-Boswel & Christina E. F. von Reiche</p>	<p>Title: Adamastor, Spirit of the Cape of Storms</p> <p>Other Titles: Adamastor, Espírito do Cabo das Tormentas Adamastor, Gees van die Stormkaap</p> <p>Inquiries: nico.botes@up.ac.za</p> <p>Author/s: Ferreira, O.J.O. (Ockert Jacobus Olivier), 1940-</p> <p>Editor/s: Le Roux, Schalk</p> <p>Illustrator/s: Botes, Nico</p> <p>Other Contributor/s: Fisher, Roger C. Botes, D.P.M. Peres, Edna Picard-Boswel, Giulia Von Reiche, C.E.F. Van Aswegen, Henning</p> <p>LC Subjects: Camoes, Luis de, 1524?-1580. Lusiadas Epic poetry, Portuguese Ferreira, O.J.O. (Ockert Jacobus Olivier), 1940-</p> <p>Keywords: Adamastor Camoens, 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</p>
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Mini-dissertations

GIBBS

The screenshot shows the 'Mini-dissertations (GIBBS)' collection home page. It features a search bar with 'Mini-dissertations (GIBBS)' entered, a 'Go' button, and options to search by Titles, Authors, Subjects, or By Date. A 'Subscribe' button is also visible. The page includes navigation links like Home, Communities & Collections, Titles, Authors, Subjects, and By Date. A 'Sign on to:' section offers options for receiving email updates, logging in as a My UPSpace user, or editing a profile. A 'Recent Submissions' section provides contact information for Magdal Naude.

Centre for Human Rights

The screenshot shows the 'Mini-dissertations (Centre for Human Rights)' collection page. It features a 'Browse by Title' section with a search bar containing 'Jump to: 0-9 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' and a 'Go!' button. Below this, it indicates 'Showing items 1-21 of 173.' A table lists items with columns for Issue Date, Title, and Author(s). The table includes entries from 2006 to 2008, such as 'Accomplishments, shortcomings and challenges : evaluation of the Special Court for Sierra Leone' by Tsegay, Tesfamicael Negash.

Issue Date	Title	Author(s)
2006	Accomplishments, shortcomings and challenges : evaluation of the Special Court for Sierra Leone	Tsegay, Tesfamicael Negash
2007	Achieving sustainable development and indigenous rights in Africa : tensions and prospects	Matusse, Angelo; Kamau, Virginia Njeri
2008	The advent of unholy alliances? Coalition governments in the aftermath of disputed elections and electoral violence in Africa: a case study of Kenya	Steytler, Nico; Biegou, Japheth
2003	Africa's environmental protection challenge : social responsibility and liability of non-state actors	Immusinyane, Boitumelo Obert
2003	The African (AU) human rights agenda : the panacea to the problem of non-compliance with human rights norms in Africa?	Ayinla, Abiola R.
2007	The African Charter on Democracy, Elections and Governance : a normative framework for analysing electoral democracy in Africa	Steytler, Nico; Alemu, Tikkiel
2008	The African Commission on Human and Peoples' Rights and the promotion and protection of prisoner's rights: an analysis	Muntingh, Lukas; Mujuzi, Jamil; Igweta, Rhoda Nkirote

Computer Science

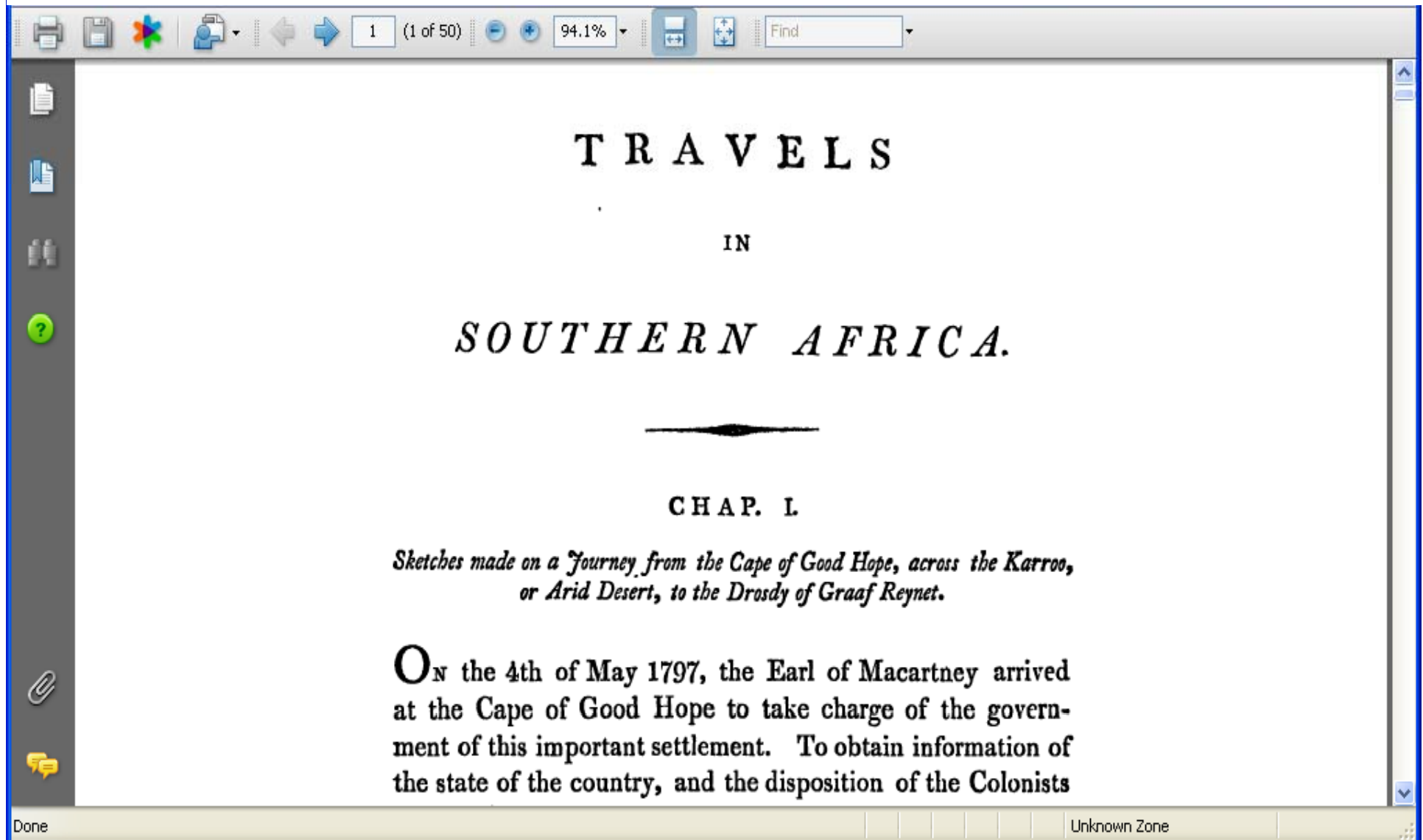
The screenshot shows the 'Mini-dissertations (Computer Science)' collection home page. It features a search bar with 'Mini-dissertations (Computer Science)' entered, a 'Go' button, and options to search by Titles, Authors, Subjects, or By Date. A 'Subscribe' button is also visible. The page includes navigation links like Home, Communities & Collections, Titles, Authors, Subjects, and By Date. A 'Sign on to:' section offers options for receiving email updates, logging in as a My UPSpace user, or editing a profile. A 'Recent Submissions' section provides contact information for Sunette Steynberg.

Industrial and Systems Engineering


The screenshot shows the 'Mini-dissertations (Industrial and Systems Engineering)' collection page. It features a 'Browse by Title' section with a search bar containing 'Jump to: 0-9 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' and a 'Go!' button. Below this, it indicates 'Showing items 2-22 of 113.' A table lists items with columns for Issue Date, Title, and Author(s). The table includes entries from 2009 to 2007, such as 'Advanced solution for managing and improving organisational health, safety & environmental procedures' by Christien, Jacobs@up.ac.za; Botha, Edward H.K.

Issue Date	Title	Author(s)
28-Jan-2009	Advanced solution for managing and improving organisational health, safety & environmental procedures	Christien, Jacobs@up.ac.za; Botha, Edward H.K.
3-Feb-2009	Analysing open pit mining operations	Christien, Jacobs@up.ac.za; Vermeulen, M.J.
3-Feb-2009	Analysis of the AVIS car rental South Africa call centre	Christien, Jacobs@up.ac.za; Wagenaar, I.
3-Feb-2009	Analysis of the material demand creation process and the availability of material at the right time in a make-to-order environment with a global supply chain	Christien, Jacobs@up.ac.za; Leonard, C.
Nov-2007	A business framework for home based health care	Christien, Jacobs@up.ac.za; Louw, L.J.
3-Feb-2009	Business optimisation of the Ya Rena Precast Concrete Plant	Christien, Jacobs@up.ac.za; Wood, B.G.
Oct-2007	Business plan for rose farm in Gauteng	Christien, Jacobs@up.ac.za; Oosthuizen, A.M.
3-Feb-2009	Business process re-engineering for Harvey Nortje Wagner and	Christien, Jacobs@up.ac.za; Nortje,

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Mapungubwe




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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

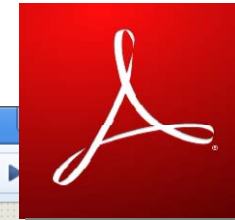
- [Mapungubwe Research Collection](#)

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- [The Kouga mummified human remains](#)
- [In memoriam, 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


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What we don't want to see

Acrobat Reader



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

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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



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- 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
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 - **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**

- Groups
- Items
- Dublin Core Registry
- Bitstream Format Registry
- Workflow
- Authorization
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Bitstream Format Registry

Extensions are comma-separated lists of filename extensions used to automatically identify the formats of uploaded files. Do not include the dot.

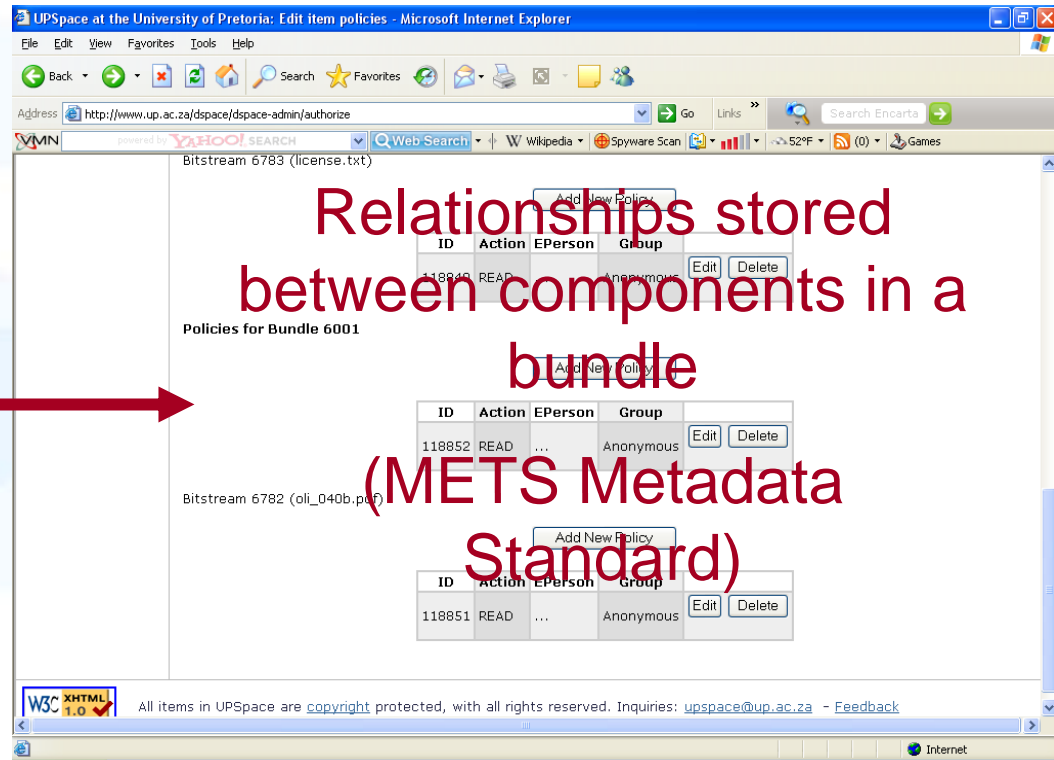
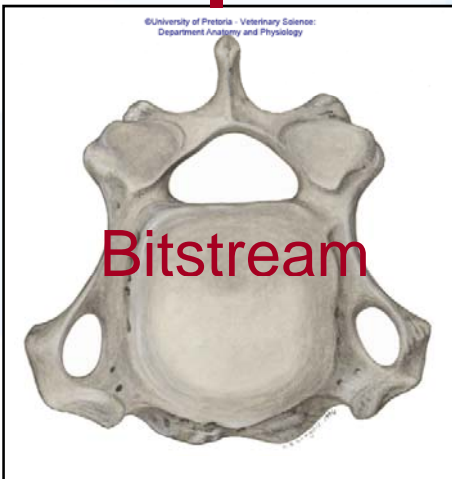
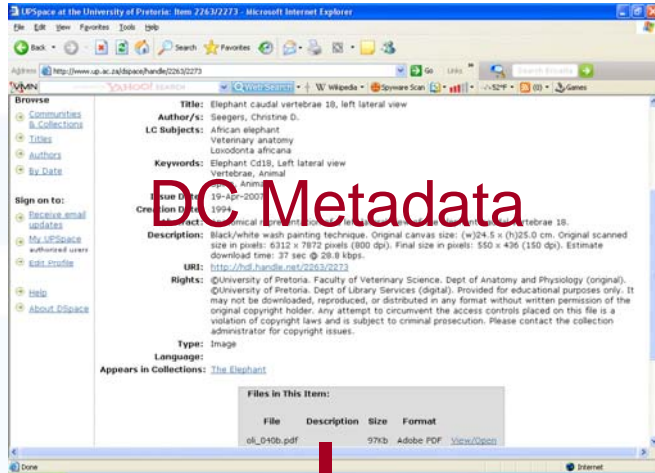
When you add a bitstream format, it is initially made "internal" so that it does not appear in the submission UI before you've finished editing the format metadata. Be sure to uncheck "internal" if the format should appear in the submission UI list of formats.

used to automatically identify the formats of uploaded files. "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-stream	Unknown	Unknown data format	Unknown	<input type="checkbox"/>		Update
2	text/plain	License	Item-specific license agreement	Known	<input checked="" type="checkbox"/>		Update Delete...
3	application/pdf	Adobe PDF	Adobe Portable Document Format	Known	<input type="checkbox"/>	pdf	Update Delete...
4	text/xml	XML	Extensible Markup Language	Known	<input type="checkbox"/>	xml	Update Delete...
5	text/plain	Text	Plain Text	Known	<input type="checkbox"/>	txt asc	Update Delete...
6	text/html	HTML	Hypertext Markup Language	Known	<input type="checkbox"/>	htm html	Update Delete...
7	application/msword	Microsoft Word	Microsoft Word Document	Known	<input type="checkbox"/>	doc	Update Delete...

Items in DSpace

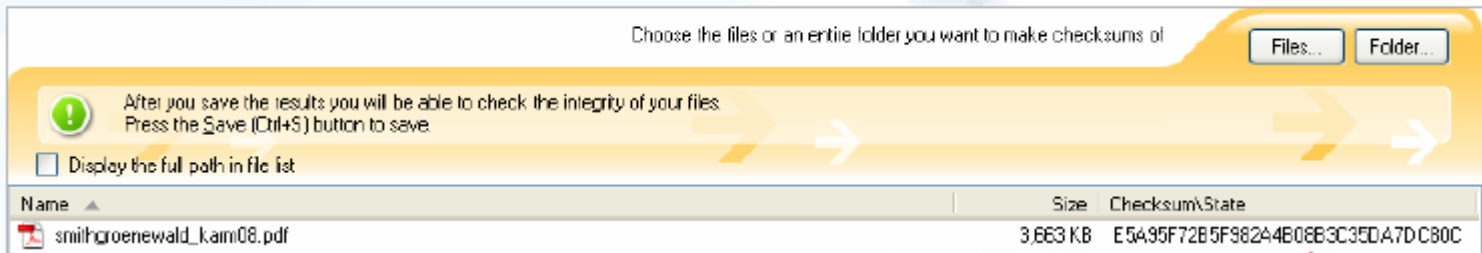


File formats

- 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



Migration to new versions of *DSpace*

Chapter 14. DSpace System Documentation: Version History - Windows Internet Explorer

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

File Edit View Favorites Tools Help

Chapter 14. DSpace System Documentation: Version ...

Chapter 14. DSpace System Documentation: Version History

Table of Contents

- [14.1. Changes in DSpace 1.5.2](#)
 - [14.1.1. General Improvements](#)
 - [14.1.2. Bug fixes and smaller patches](#)
- [14.2. Changes in DSpace 1.5.1](#)
 - [14.2.1. General Improvements](#)
 - [14.2.2. Bug fixes and smaller patches](#)
- [14.3. Changes in DSpace 1.5](#)
 - [14.3.1. General Improvements](#)
 - [14.3.2. Bug fixes and smaller patches](#)
- [14.4. Changes in DSpace 1.4.1](#)
 - [14.4.1. General Improvements](#)
 - [14.4.2. Bug fixes](#)
- [14.5. Changes in DSpace 1.4](#)
 - [14.5.1. General Improvements](#)
 - [14.5.2. Bug fixes](#)
- [14.6. Changes in DSpace 1.3.2](#)
 - [14.6.1. General Improvements](#)
 - [14.6.2. Bug fixes](#)
- [14.7. Changes in DSpace 1.3.1](#)
 - [14.7.1. Bug fixes](#)
- [14.8. Changes in DSpace 1.3](#)
 - [14.8.1. General Improvements](#)
 - [14.8.2. Bug fixes](#)
- [14.9. Changes in DSpace 1.2.2](#)
 - [14.9.1. General Improvements](#)
 - [14.9.2. Bug fixes](#)
 - [14.9.3. Changes in JSPs](#)
- [14.10. Changes in DSpace 1.2.1](#)

Done

Internet 100%

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

Managing corrupt files etc.



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Browser tabs: DZ Digital Preservation..., dspace.org - Dsp..., DSpace Release..., dspace.org - DS...

Address bar: <http://www.up.ac.za/dspace/handle/2263/5391>

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The item you are trying to access has been withdrawn from UPSpace. If have any questions, please contact the administrators.

Leave a message for the UPSpace at the University of Pretoria administrators.


IT Help: Tel.: upspace@up.ac.za
+ 27 12 420 3051

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Digital "Tombstone"




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[←](#) [→](#) [↻](#) [☆](#) http://www.up.ac.za/dspace/tools/edit-item?handle=2263/5391&submit=Find&item_id=



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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.

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Item internal ID: 6012

Handle: 2263/5391

Last modified: 17-Jul-2008 16:49:07

Research Articles (Centre for Wildlife Management)

In Collections: Research Articles (Centre for Wildlife Management)
openUP

Item page: <https://www.up.ac.za/dspace/handle/2263/5391>

Item's Authorizations:

This item was withdrawn from UPSpace

Reinstate

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

dc	description	abstract			
dc	description	provenance			
dc	description	provenance			
dc	description	provenance			
dc	description	provenance	Made available on 2008-05-20T13:20:04Z (GMT). Item 1 Gaugri... .pdf: 633671 bytes,	en	Remove
dc	description	provenance	Item withdrawn by Ina Smith (ina@ais.up.ac.za) on 2008-06-10T06:29:07Z. Item is in collections:	en	Remove
dc	description	provenance	Item withdrawn from UPspace on 13 June 2008 on request of Monica Hammes. Reason: None. See http://hdl.handle.net/2263/6217		Remove
dc	format	extent	633671 bytes		Remove
dc	format	mimetype	application/pdf		Remove
dc	language	iso	en	en	Remove
dc	publisher		Elsevier	en	Remove

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 Pyrrho 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

OAster Search Results - Windows Internet Explorer

http://quod.lib.umich.edu/cgi/b/bib/bib-idx?type=boolean&size=10&rgn1=author&rgn2=entire+record&rgn3=entire+record&...

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OAster Search Results

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You found **61 records** by searching the **Author/Creator** field for "**brent alan**".
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Results by Data Contributor

Sort by weighted hit frequency

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Record 1 of 61
[add to bookbag](#)

Title	Comparison of clusters with and without detectable Wolf-Rayet stars in starburst galaxies using optical, near-infrared imagery and spectroscopy
Author/Creator	Buckalew, Brent Alan ; Buckalew, Brent Alan
Publisher	Rice University
Year	2007-08-21T01:10:59Z
Year	2003
Resource Type	text
Resource Format	PDF
Language	English
Note	This optical, near-infrared observational study compares the properties of clusters with and without Wolf-Rayet (W-R) stars in starburst galaxies. Previous studies looked only at the galactic properties. Because this work identifies the specific locations of W-R stars, comparisons of clusters with and without W-R stars are possible and enable us to understand the impact of massive stars on their environment, to gain knowledge of the cosmic formation and evolution of chemical abundances, to constrain the parameters for modeling these systems, and to apply this knowledge to observations of starburst galaxies at higher redshifts. BHK and Ha imagery as well as spectroscopic observations over $\lambda_{\text{rest}} 3500\text{--}7000$ were taken of 48 clusters in 20 galaxies. Using standard reduction techniques, we calibrated the data to provide the locations of W-R stars and to derive 35 cluster and interstellar medium properties such as age and elemental abundances. These 35 properties of clusters with and without W-R stars are compared for similarities and differences in stellar populations, nebular morphology, and elemental abundances. Most stellar populations of clusters with and without W-R stars confirm current evolutionary theory of massive stars. Clusters with W-R stars are currently younger, bluer clusters which

OA1ster [OCLC] - Windows Internet Explorer

http://www.oclc.org/us/en/news/releases/20096.htm

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OA1ster [OCLC]

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News releases

University of Michigan and OCLC form partnership to ensure long-term access to OA1ster 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 OA1ster 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, OA1ster 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). OA1ster 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, OA1ster.org will continue to function as the public interface to OA1ster 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 OA1ster 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 OA1ster with OCLC helps to create an

For more information:
 Bob Murphy
 E murphyb@oclc.org
 T +1-614-...

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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).”

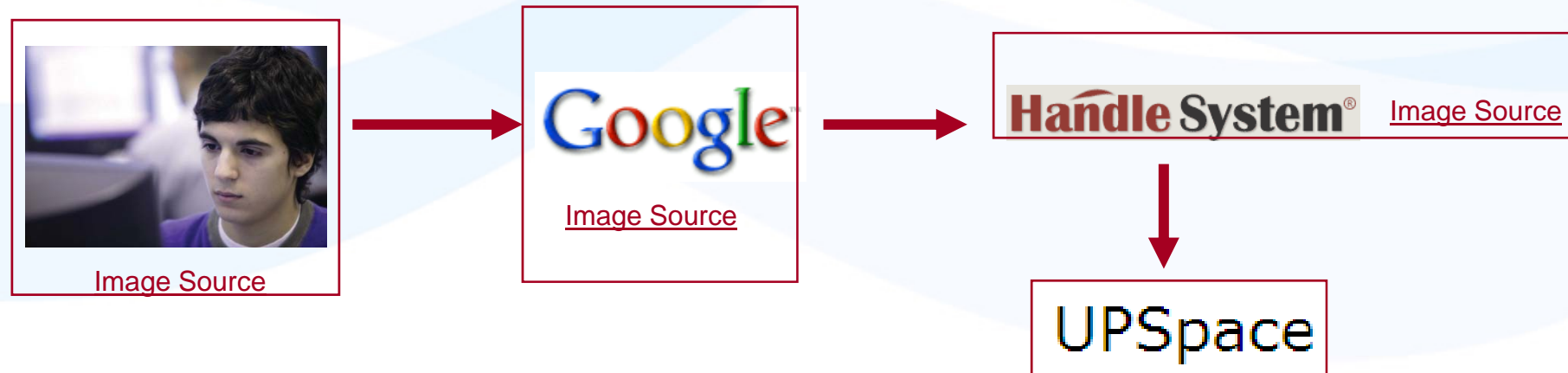
100
1908 - 2008

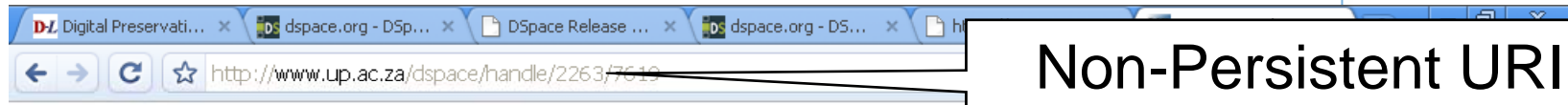


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- UJ Handle: <http://hdl.handle.net/10210/622>
- DUT Handle: <http://hdl.handle.net/10321/298>
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Title: The life and career of the South African dramatic soprano Marita Napier
Inquiries: eridine.roux@up.ac.za
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

Persistent URI

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>
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Other Identifiers: ZAPR 780.92 NAPIER ROU
Type: Text
Language: en
Appears in Collections: [Dissertations \(Music\)](#)

Files in This Item:

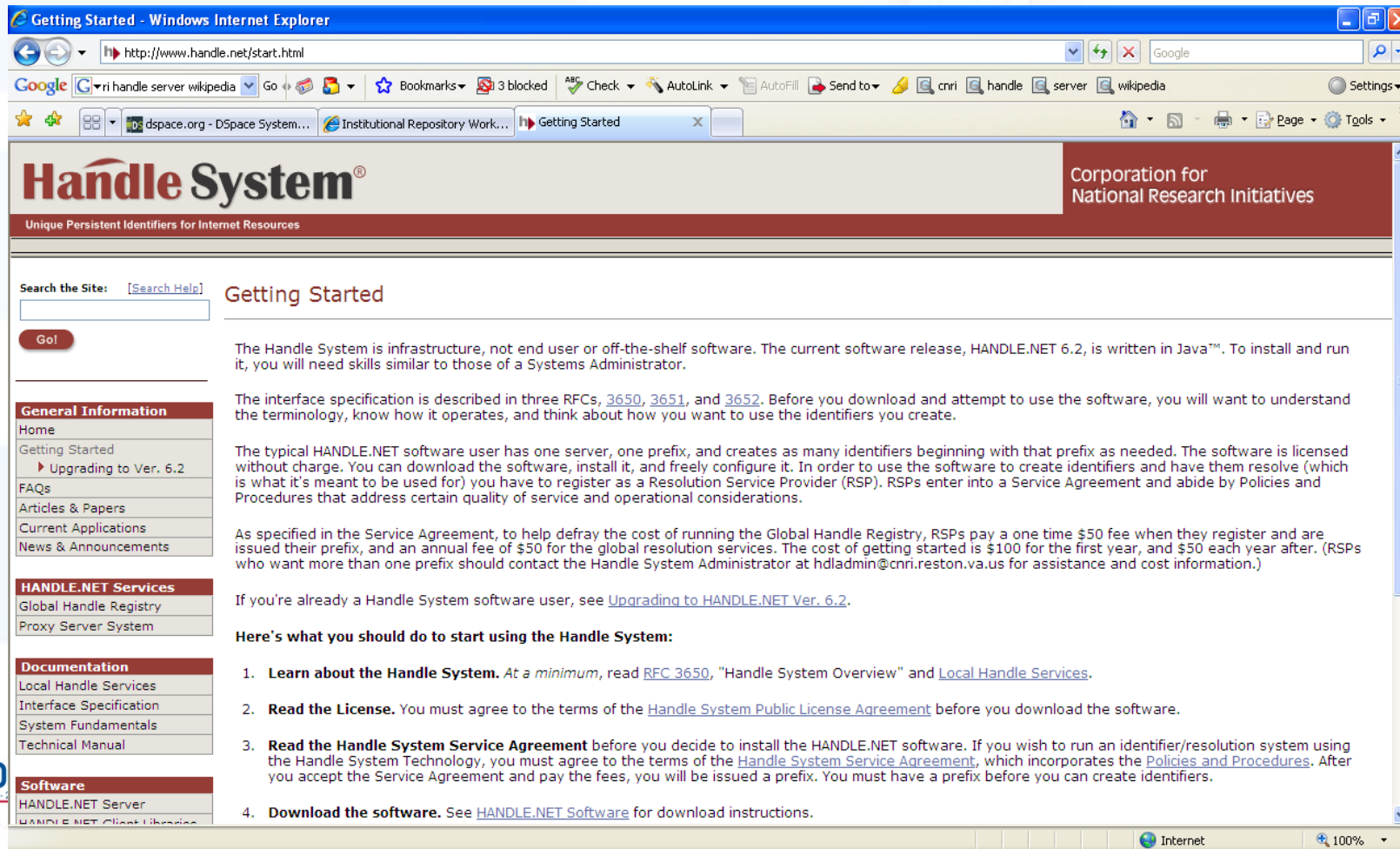
File	Description	Size	Format	
permission.pdf	Letter of Consent	1.98 MB	Adobe PDF	View/Open
roux_life(2007).pdf	Dissertation	515.31 kB	Adobe PDF	View/Open
napier.zip	MSPowerPoint	102.49 MB	Unknown	View/Open

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Accompanying documentation

Request a Handle Prefix from CNRI

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



The screenshot shows a Windows Internet Explorer browser window displaying the Handle System website. The browser's address bar shows the URL <http://www.handle.net/start.html>. The website header features the "Handle System" logo and the text "Corporation for National Research Initiatives". Below the header, there is a search bar and a "Getting Started" section. The "Getting Started" section contains several paragraphs of text and a numbered list of steps to start using the Handle System. The left sidebar contains navigation links for "General Information", "HANDLE.NET Services", "Documentation", and "Software".

Handle System
Unique Persistent Identifiers for Internet Resources

Corporation for National Research Initiatives

Search the Site: [Search Help]

Go!

Getting Started

The Handle System is infrastructure, not end user or off-the-shelf software. The current software release, HANDLE.NET 6.2, is written in Java™. To install and run it, you will need skills similar to those of a Systems Administrator.

The interface specification is described in three RFCs, [3650](#), [3651](#), and [3652](#). Before you download and attempt to use the software, you will want to understand the terminology, know how it operates, and think about how you want to use the identifiers you create.

The typical HANDLE.NET software user has one server, one prefix, and creates as many identifiers beginning with that prefix as needed. The software is licensed without charge. You can download the software, install it, and freely configure it. In order to use the software to create identifiers and have them resolve (which is what it's meant to be used for) you have to register as a Resolution Service Provider (RSP). RSPs enter into a Service Agreement and abide by Policies and Procedures that address certain quality of service and operational considerations.

As specified in the Service Agreement, to help defray the cost of running the Global Handle Registry, RSPs pay a one time \$50 fee when they register and are issued their prefix, and an annual fee of \$50 for the global resolution services. The cost of getting started is \$100 for the first year, and \$50 each year after. (RSPs who want more than one prefix should contact the Handle System Administrator at hdladmin@cnri.reston.va.us for assistance and cost information.)

If you're already a Handle System software user, see [Upgrading to HANDLE.NET Ver. 6.2](#).

Here's what you should do to start using the Handle System:

1. **Learn about the Handle System.** At a minimum, read [RFC 3650](#), "Handle System Overview" and [Local Handle Services](#).
2. **Read the License.** You must agree to the terms of the [Handle System Public License Agreement](#) before you download the software.
3. **Read the Handle System Service Agreement** before you decide to install the HANDLE.NET software. If you wish to run an identifier/resolution system using the Handle System Technology, you must agree to the terms of the [Handle System Service Agreement](#), which incorporates the [Policies and Procedures](#). After you accept the Service Agreement and pay the fees, you will be issued a prefix. You must have a prefix before you can create identifiers.
4. **Download the software.** See [HANDLE.NET Software](#) for download instructions.

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1908

Controlled access

The screenshot shows a web browser window with the URL <http://www.up.ac.za/dspace/gap-login.jsp>. The page header includes the University of Pretoria logo and the text "UPSpace Research Repository of the University of Pretoria, South Africa". Below the header is a navigation bar with three images: hands on a keyboard, a computer screen, and a person at a computer. The main content area features a search box with a "Go" button and a link to "Advanced Search". To the left of the search box is a sidebar with navigation links: Home, Communities & Collections, Titles, Authors, Subjects, and By Date. Below these links is a "Sign on to:" section with links for "Receive email updates", "My UPspace authorized users", "Edit Profile", and "About UPspace". The central area contains a login form with the instruction "Please enter your email/portal username and password". The form has two input fields: "Username" and "Password", followed by a "Login" button.

Tools

DRAMBORA <http://www.repositoryaudit.eu>

Digital Repository Audit Method Based on Risk Assessment Toolkit

The screenshot shows a Microsoft Internet Explorer browser window displaying the DRAMBORA website. The address bar shows the URL <http://www.repositoryaudit.eu/about/>. The website header features the text "DRAMBORA interactive" and "Digital Repository Audit Method Based on Risk Assessment", along with logos for the Digital Curation Centre (DCC) and Digital Preservation Europe (DPE).

The main content area is titled "DRAMBORA: About" and includes a sub-section "About DRAMBORA" with an image of a hand pointing to a "YES" sign. The text describes the tool as developed jointly by the Digital Curation Centre (DCC) and Digital Preservation Europe (DPE), representing the main intellectual outcome of a period of pilot repository audits undertaken by the DCC throughout 2006 and 2007. It presents a methodology for self-assessment, encouraging organisations to establish a comprehensive self-awareness of their objectives, activities and assets before identifying, assessing and managing the risks implicit within their organisation.

Below this, a paragraph explains that within DRAMBORA, digital curation is characterised as a risk-management activity; the job of digital curator is to rationalise the uncertainties and threats that inhibit efforts to maintain digital object authenticity and understandability, transforming them into manageable risks. Six stages are implicit within the process. Initial stages require auditors to develop an organisational profile, describing and documenting the repository's mandate, objectives, activities and assets. Latterly, risks are derived from each of these, and assessed in terms of their likelihood and potential impact. Finally, auditors are encouraged to conceive of appropriate risk management responses to the identified risk. The process enables effective resource allocation, enabling repository administrators to identify and categorise the areas where shortcomings are most evident or have the greatest potential for disruption. The process itself is an iterative one and therefore subsequent recursions will evaluate the effectiveness of prior risk management implementations.

At the bottom of the main content area, it lists "DRAMBORA Consortium Sponsors:".

The left sidebar contains a "Register a New Repository" form with fields for "Username:" and "Password:", a "Remember:" checkbox, and a "Log In" button. Below this are links for "Home", "Latest News", "Get Expert Help", "Download Offline Version", and "Submit Feedback". A "About" menu is also present with links to "Objectives", "Benefits", "The DRAMBORA Team", "Dissemination", and "DRAMBORA Users".

The right sidebar contains a "News" section with two entries: "Improving DRAMBORA: Your Help Required" dated 10th Apr 2008, and "DRAMBORA Interactive Released!" dated 9th Apr 2008. Below this is a "Download" section with a link to register to download the offline copy of the DRAMBORA Toolkit. A "Comment" section invites users to submit feedback via a feedback form or email. A "Get Help" section offers assistance in the DRAMBORA evaluation process by volunteering to host a DRAMBORA facilitated assessment.

In the bottom left corner, there is a logo for "100 1908-2008 UNIV YUNI DENKELERS" featuring a crest.

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

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- 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!

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