



Research @ universities: Cited more, Safe forever*



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA



Presented to the Southern African Regional Universities
Association, 26 October 2007

Presented by Ina Smith

*Acknowledgement: University of Michigan

Research @ UP

UP leads international Eucalyptus genome project addressing world energy crisis

by Prof Zander Myburg

Posted on 11 July 2007

The University of Pretoria, in collaboration with several other international research organizations and the United States **Department of Energy (DOE) Joint Genome Institute (JGI)**, is working on enhancing Eucalyptus plantations to provide biofuels by studying the genes of these useful

Shanghai Jiao Tong University

<http://ed.sjtu.edu.cn/ranking2006.htm>

401-500	Univ KwaZulu-Natal	Africa	3-5	South Africa	3-4	0	0	7.7	9.8	22.9	11.9
401-500	Univ Louisville	Americas	165-196	USA	141-167	0	0	0	6.4	32.2	16.2
401-500	Univ Maine - Orono	Americas	165-196	USA	141-167	0	0	7.7	10.8	18.9	13.6
401-500	Univ Maryland - Baltimore County	Americas	165-196	USA	141-167	0	0	10.9	8.5	20.5	15.1
401-500	Univ Memphis	Americas	165-196	USA	141-167	0	0	7.7	9.6	19.2	10.3
401-500	Univ Mississippi - Oxford	Americas	165-196	USA	141-167	0	0	7.7	4.9	24.1	11.7
401-500	Univ Nebraska Med Center	Americas	165-196	USA	141-167	0	0	15.4	6	21.9	12.5
401-500	Univ New England	Asia/Pac	64-92	Australia	12-16	0	0	7.7	9.6	16.9	18.1
401-500	Univ Nice	Europe	172-207	France	18-21	0	0	7.7	9.8	20.8	11.1
401-500	Univ Oulu	Europe	172-207	Finland	3-5	0	0	0	7	29.6	13.9
401-500	Univ Parma	Europe	172-207	Italy	15-23	0	0	0	9.5	27.9	14.1
401-500	Univ Pretoria	Africa	3-5	South Africa	3-4	0	0	0	9.1	26.7	12.9
401-500	Univ Quebec	Americas	165-196	Canada	20-22	0	0	0	6.7	32	14.9
401-500	Univ Roma - Tor Vergata	Europe	172-207	Italy	15-23	0	0	0	6.5	33.2	15.7
401-500	Univ Rostock	Europe	172-207	Germany	37-40	0	0	7.7	6	27.2	13.2
401-500	Univ Saarlandes	Europe	172-207	Germany	37-40	0	0	0	10.7	29.7	14.4
401-500	Univ Sevilla	Europe	172-207	Spain	6-9	0	0	0	8.6	30.8	14.6
401-500	Univ Sherbrooke	Americas	165-196	Canada	20-22	0	0	7.7	8.3	23.8	12

Pandor prys Tuks vir hoeveelheid navorsing

H-number (or H-index)

ISI Web of Knowledge™ Essential Science Indicators™

Essential Science Indicators™ was updated on July 1, 2007 to cover a ten-year plus four-month period, January 1, 1997-April 30, 2007.

Information for New Users

- Citation Rankings:
 - Scientists
 - Institutions
 - Countries/Territories
 - Journals
- Most Cited Papers:
 - Highly Cited Papers (last 10 years)
 - Hot Papers (last 2 years)
- Citation Analysis:
 - Baselines
 - Research Fronts

THOMSON

Organizational Strategy & Objectives

“The **sound management of information** through our library system is **cardinal** to our vision of being an **internationally recognised research university**. **New technologies** have made it possible to **access academic information** here and abroad more efficiently than in the past. Furthermore, increasingly, **information sources** are being received in **digital format** by the University’s libraries. We believe it to be essential that the **opportunities** afforded us by these developments should be **fully exploited**. We intend ensuring that this is the case.”

(University of Pretoria 2007)

Library's e-Information Strategy

- **Integrated seamless e-Service**
- Objectives
 - Support education innovation & research excellence
 - Optimal e-information (portal) services
 - Participate & contribute to national & international e-information phenomena
- Key sub strategies
 - Create **e-information environment**
 - E-Information plan
 - Learning/ e-learning & **research/ e-research support strategies**
 - **Library structure, business processes, skills, facilities**

What is an IR?

- Set of services
- Management
- Dissemination
- Organizational commitment
- Stewardship
- Long-term preservation
- Organization & access/ distribution

Open access @ UP

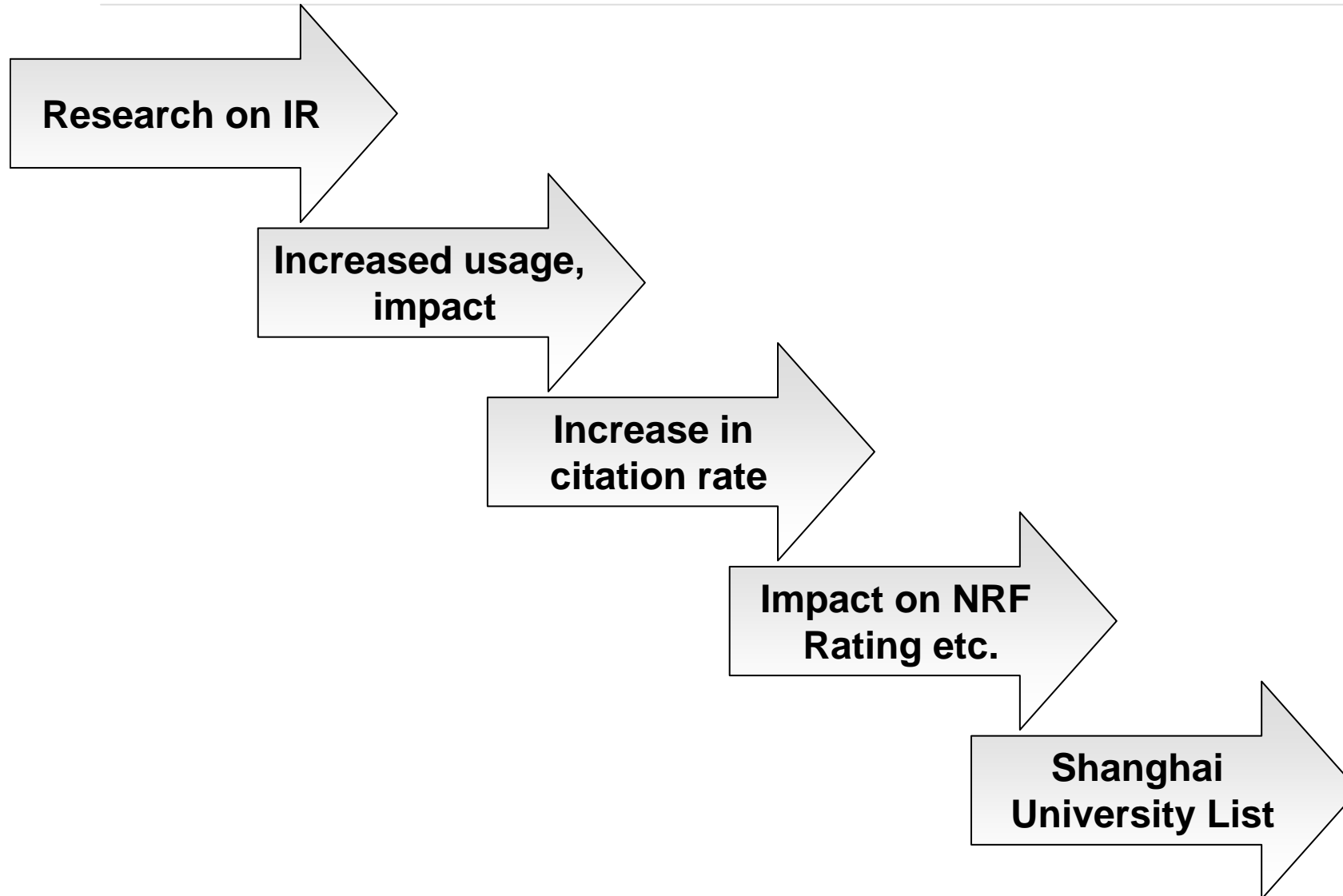
“**Open access** (OA) is **free, immediate, permanent, full-text, online** access, for any user, web-wide, to digital scientific and scholarly material^[1], including research articles published in peer-reviewed journals.”

Source: http://en.wikipedia.org/wiki/Open_access

Benefits of an open access IR

- Preservation function
- Central archive of research
- Increases visibility, usage, impact of research
“open access papers are **read more widely**, and, therefore, **cited more frequently**. The consequence of this is that they have **greater impact**” (Jones, Andrew and MacColl 2006)
- Open access to all – also those who cannot afford subscribing

Impact an IR can have on research



Highlights

2005

- Research & Needs assessment
- Champions identified
- Evaluation of software
- Proposal
- Hardware & Staffing
- Digitization & Metadata Standards
- **Jan. 2006:** Implementation
- **Oct. 2006: DigiBook 10000 RGB Scanner**
- **Feb. 2007:** Role description – Info. Specialists
- **March 2007:** Role description - Cataloguers

Project Phases

Analysis

Design

Development

Implementation

Evaluation

About DSpace



Top Reasons to Use DSpace

Largest community of users and developers worldwide

Free open source software

Completely customizable to fit your needs

Can manage and preserve all types of digital content
-- text, images, moving images, mpegs, datasets

Used by educational, government, private and
commercial institutions

Can be installed easily "out of the box"

<http://www.dspace.org/>

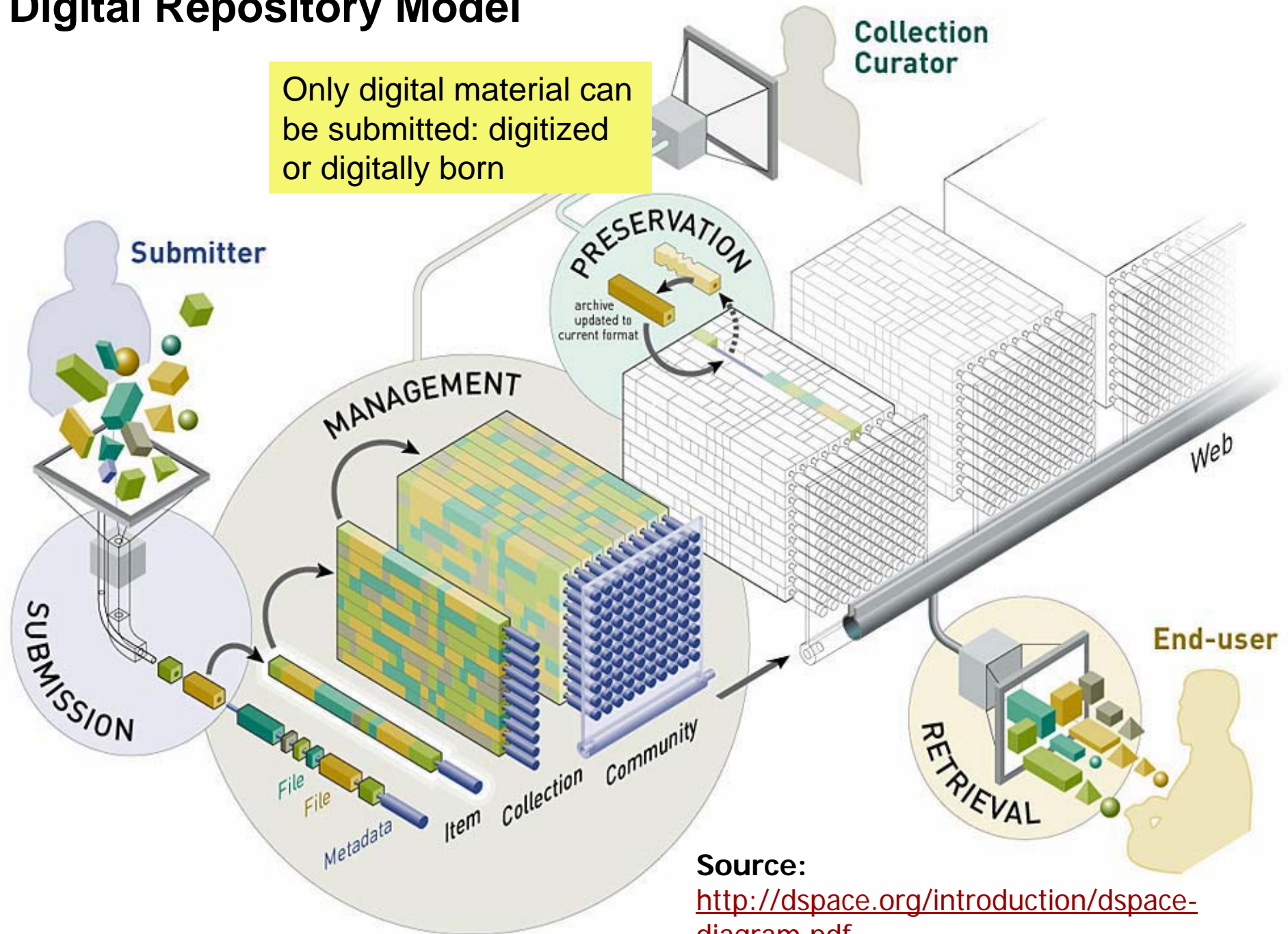
Getting started

- **Download** from: <http://sourceforge.net/projects/dspace/>
- **Operating systems:** 32-bit MS Windows (NT/2000/XP), All POSIX (Linux/BSD/UNIX-like OSes), OS X
- **Pre-requisite software:**
 - [Java SDK 1.4](#) or later (standard SDK is fine, you don't need J2EE)
 - [PostgreSQL 8.x for Windows](#)
 - [Apache Ant 1.6.x](#)
 - [Jakarta Tomcat 5.x+](#)

Features offered by DSpace

- Web/ Library 2.0 functionalities
- Guarantees archiving/ preservation of material in digital format
- Persistent URL's
- Subscribe to collections
- E-workflow for quality control
- Distributed/ Decentralised input
- Limit access on various levels
- Searchable (incl. full text) – not static web page

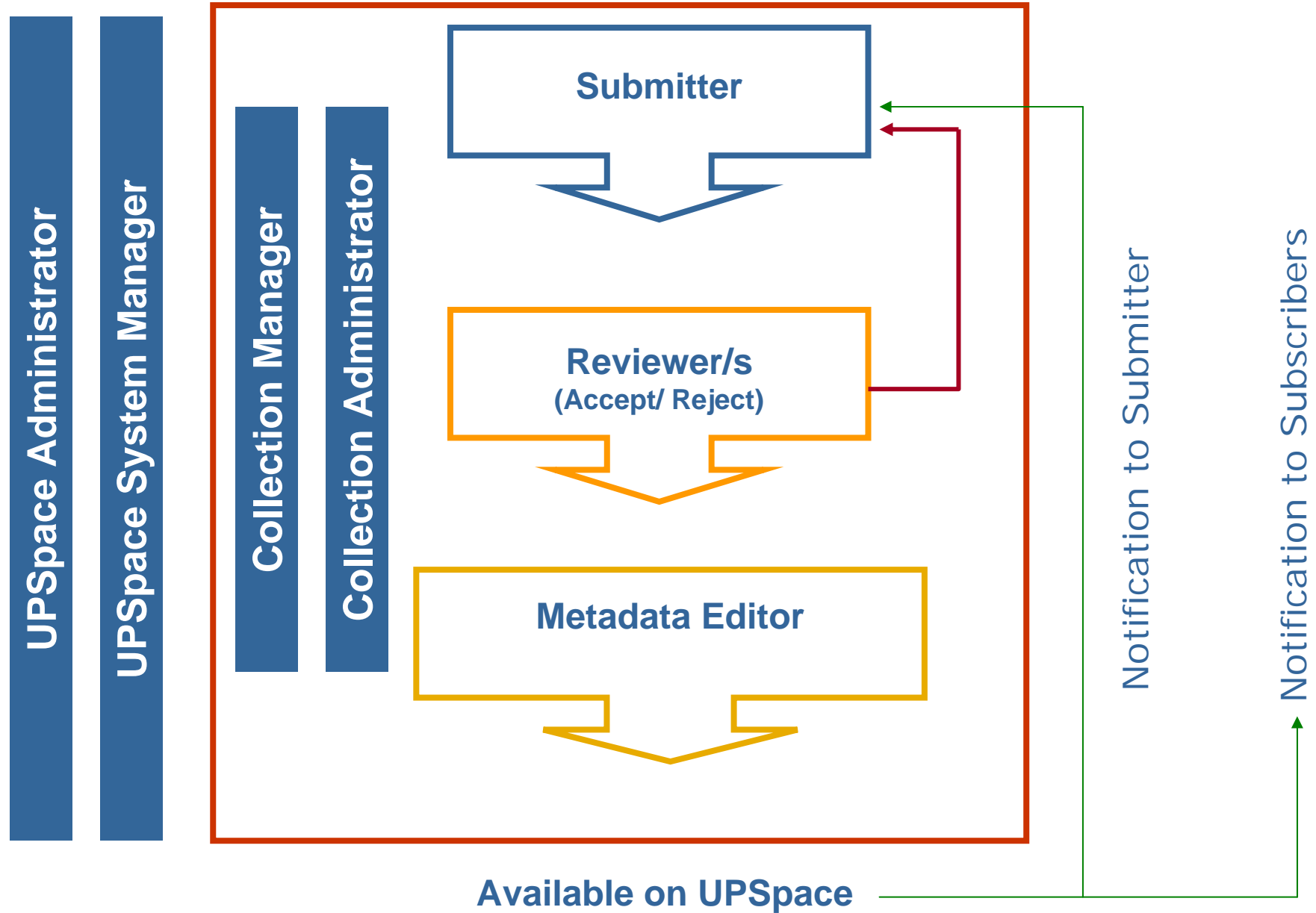
Digital Repository Model



Source:

<http://dspace.org/introduction/dspace-diagram.pdf>

IR Workflow & Roles



<https://www.up.ac.za/dspace/>

UPSpace at the University of Pretoria: Home - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <https://www.up.ac.za/dspace/>

University of Pretoria

UPSpace

UPSpace at the University of Pretoria >

Welcome to UPSpace, the digital research repository of the University of Pretoria!

Items archived since January 2006: 2 391

Search

Enter some text in the box below to search UPSpace.

Communities in UPSpace

Choose a community to browse its collections.

- [Centre for the Study of AIDS \(CSA\)](#)
- [Economic & Management Sciences](#)
- [Education](#)
- [Education Innovation](#)
- [Engineering, Built Environment & Information Technology](#)
- [Health Sciences](#)
- [Humanities](#)

Search UPSpace

[Advanced Search](#)

[Home](#)

Browse

- [Communities & Collections](#)
- [Titles](#)
- [Authors](#)
- [By Date](#)

Sign on to:

- [Receive email updates](#)
- [My UPSpace authorized users](#)
- [Edit Profile](#)
- [Help](#)
- [About DSpace](#)

Publisher copyright policies & self-archiving

[SHERPA-RoMEO list](#)

Open Access Initiatives

- [eIFL SURFshare](#)
- [DRIVER](#)
- [openUP](#)
- [openDOAR](#)
- [ROAR](#)
- [OAISTER](#)
- [Open Archives Institute](#)
- [Wikipedia](#)
- [DOAJ](#)
- [Journal Info \(Lund University\)](#)
- [Google Book Search](#)

Do you want to become part of the UPSpace research community?

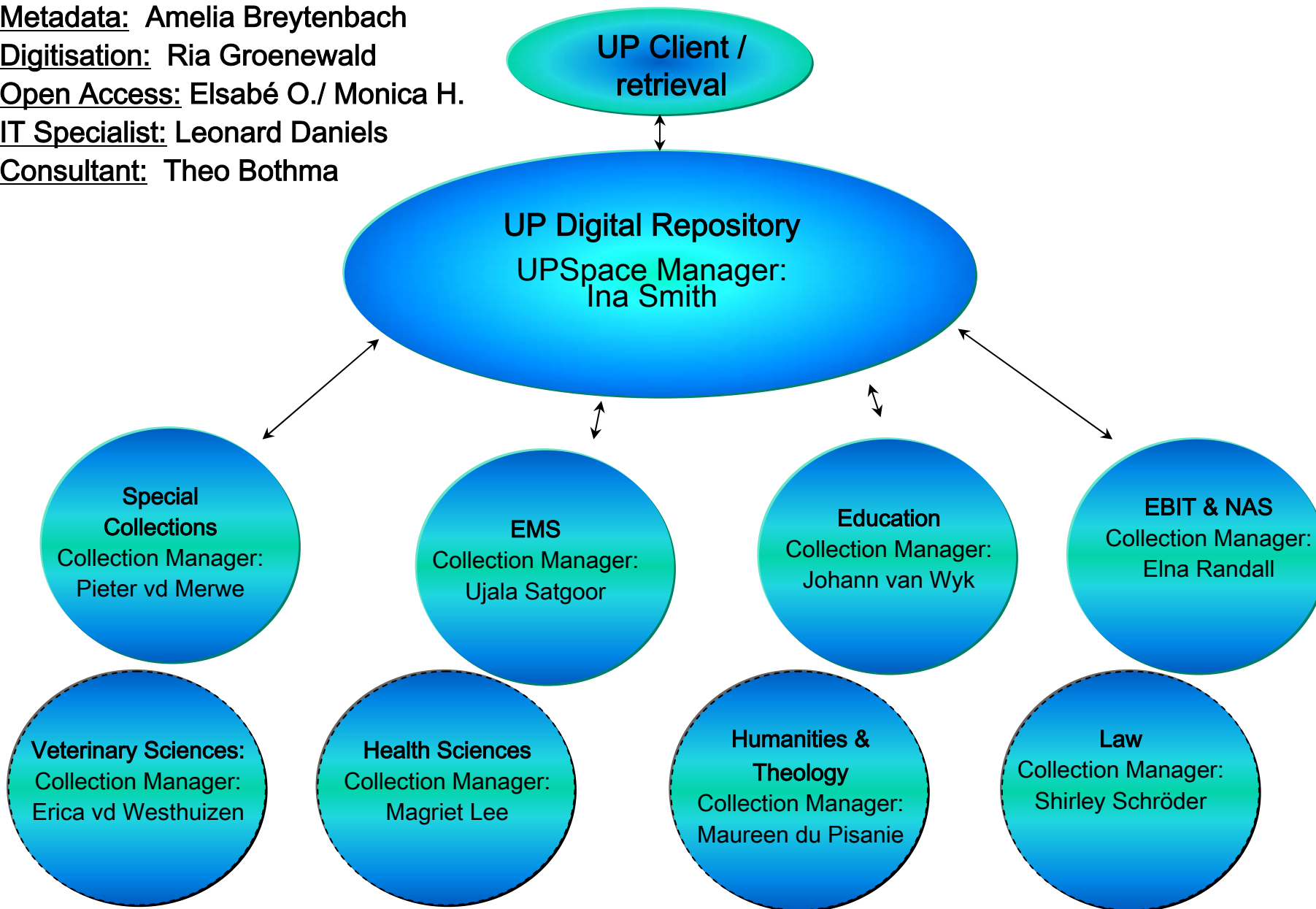
[Contact us](#) for more information or [apply for a new collection](#)

How to submit an item to UPSpace

UP Digital Institutional Research Repository

Specialist / expert roles:

- Metadata: Amelia Breytenbach
- Digitisation: Ria Groenewald
- Open Access: Elsabé O./ Monica H.
- IT Specialist: Leonard Daniels
- Consultant: Theo Bothma



Champions

Gerard Moerdijk Collection

Arnold Theiler Collection

Research Articles

Jonathan Jansen Collection



In vitro effect of medicinal plants used to treat erectile dysfunction on smooth muscle relaxation and human sperm

N.C. Rakunambo, J.J.M. Meyer, A. Hussein, C. Huyser, S.P. Mdlalose and T.G. Raidani

Abstract

Chloroform and ethanol extracts of root bark of *Securidaca longepedunculata*, *Wrightia natalensis* and *Rhoicissus tridentata* were investigated for their in vitro activity on the contraction of corpus cavernosal smooth muscle of white New Zealand rabbits. Some of the extracts of these plants relaxed the corpus cavernosal smooth muscle at low concentrations. The highest activity was obtained from *Securidaca longepedunculata* chloroform extracts at a concentration of 13.0 mg/ml, which induced 66.6% relaxation. Viagra was used as a positive control in this study. Extracts of *Securidaca longepedunculata* added to human spermatozoa affected certain sperm parameters negatively at 6.5 mg/ml and higher whilst there was no effect at 1.0 mg/ml.

Article Outline

1. Introduction
2. Materials and methods
 - 2.1. Plant material
 - 2.2. Plant extraction for smooth muscle relaxation experiment
 - 2.3. Plant extraction for sperm parameter experiment
 - 2.4. Preparation of corpus cavernosal smooth muscle
 - 2.5. Smooth muscle relaxation bioassay
 - 2.6. Sperm processing, motility, vitality and membrane integrity
 - 2.7. Statistical analysis
3. Results
 - 3.1. Smooth muscle relaxation
 - 3.2. Effect of extracts on sperm parameters
4. Discussion
- Acknowledgements
- References

COP: Architecture



COP: Veterinary Sciences

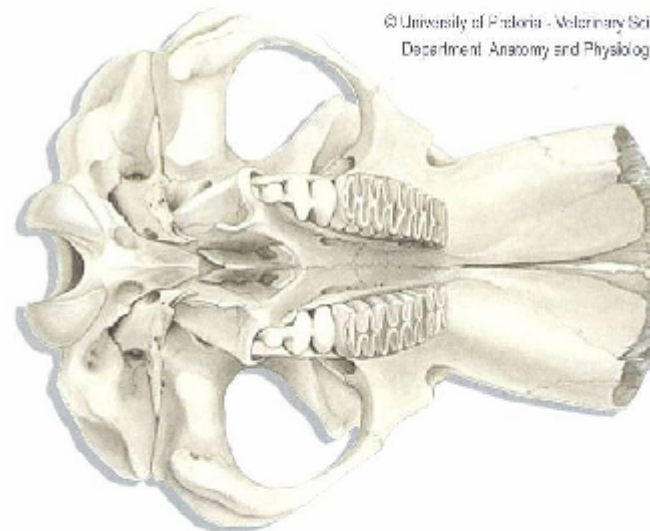
Elephants in UPSpace

by Erica van der Westhuizen

The Onderstepoort library is excited about its latest digital project. Fifty-one of Christine Seegers's elephant sketches have been placed on the UPSpace at <https://www.up.ac.za/dspace/handle/2263/1971>. In this way this unique collection can be safeguarded, while showing it to the rest of the world. Each plate has the UP logo, marking it as UP property, the copyright-holder being the Department of Anatomy and Physiology of the Faculty of Veterinary Science.

Special mention must be made of the important role of two staff members in creating this digital collection: Ria Groenewald, Digitisation Coordinator of UP, whose expertise in creating the digital images ensured that the artist's work is shown to its best advantage, and Amelia Breytenbach of the Onderstepoort library, who heads the metadata applications for UP, enabling optimal retrieval of information on the website.

We would like to thank Prof Herman Groenewald, Head of the Department of Anatomy and Physiology, for his input in describing each illustration.



© University of Pretoria - Veterinary Science
Department Anatomy and Physiology

An example of Christine Seegers's illustration of the African elephant (the adult skull), which can be seen at <https://www.up.ac.za/dspace/handle/2263/2213>.

Information Model

Top-Level Community

Faculty e.g. Economic and Management Sciences

Sub-Community

Department e.g. Auditing

Collections

E.g. Open Lectures
Conference Proceedings
Student Projects
Research Articles
Photo Album
Media Columns

Policies & Standards

UPSpace Policy
Digitization Standards
Metadata Standards

UPSpace at the University of Pretoria: Communities and Collections - Microsoft Internet Explorer

Address: <https://www.up.ac.za/dspace/community-list>

- **Mapungubwe Collections**
 - **Mapungubwe Research Collection**
 - [Mapungubwe Artefact \(Object\) Collection](#)
 - [Mapungubwe Document Collection](#)
 - [Mapungubwe National Collection](#)
 - [Mapungubwe Pamphlets, Brochures, Booklets & Postcards](#)
 - [Mapungubwe Photograph Collection](#)
- **Natural & Agricultural Sciences**
 - **Agricultural Economics, Extension & Rural Development**
 - [Chapters from books \(Agricultural Economics etc.\)](#)
 - [Research Articles \(Agricultural Economics et al.\)](#)
 - **Johann Kirsten Collection**
 - [Chapters from books \(Johann Kirsten\)](#)
 - [Media Columns \(Johann Kirsten\)](#)
 - [Photo Album \(Johann Kirsten\)](#)
 - [Radio & TV Interviews \(Johann Kirsten\)](#)
 - [Research Articles \(Johann Kirsten\)](#)
 - [Research Reports \(Johann Kirsten\)](#)
 - **Animal and Wildlife Science**
 - [Research Articles \(Animal and Wildlife Science\)](#)
 - **Biochemistry**
 - [Research Articles \(Biochemistry\)](#)
 - **Botany**
 - [Research Articles \(Botany\)](#)
 - **Centre for Environment and Economic Policy**
 - [Research Articles \(Centre for Environment and Economic Policy\)](#)
 - **Centre for Wildlife Management**

**University of Pretoria
Academic Information Service
UPSpace Collection Policy**

For any other policy issues, please refer to the main UPSpace Policy available at www.dspace.up.ac.za

UPSpace will serve as the institutional research repository of the University of Pretoria. It will offer a set of services to the members of the UP Community, for the management and dissemination of digital **research materials** (also *intellectual research output*) donated to or created by the institution and its community members. The set of services includes the collection, storage and long-term preservation in digital format, and retrieval of items submitted to UPSpace.

Please provide the name/s and also description/s of the Communities / Collections	
Top-level Community E.g. Education	
Description	
Sub-Community E.g. Curriculum Studies	
Description	

Collection Policies



Collection Policies

Top-level Community, Sub-Community, Collection

Roles in workflow

Description of collection

Collection license

Restrictions

File formats

File naming conventions

Referencing technique

Language policy etc.

10 Repositories National

The screenshot shows the homepage of the Stellenbosch University Institutional Repository. The browser window title is "Stellenbosch University Institutional Repository: Home - Microsoft Internet Explorer". The address bar shows the URL "http://ir.sun.ac.za/dspace/". The page features the university's logo and name, "UNIVERSITEIT STELLENBOSCH-UNIVERSITY", with the tagline "jou kennisvenoot-your knowledge partner".

The main content area is titled "Stellenbosch University Institutional Repository" and contains the following text:

The institutional repository at Stellenbosch University is used to collect, preserve and disseminate electronic theses and dissertations as well as Library and departmental special collections.

For more information on submitting your work into the repository, please contact the Library and Information Services department.

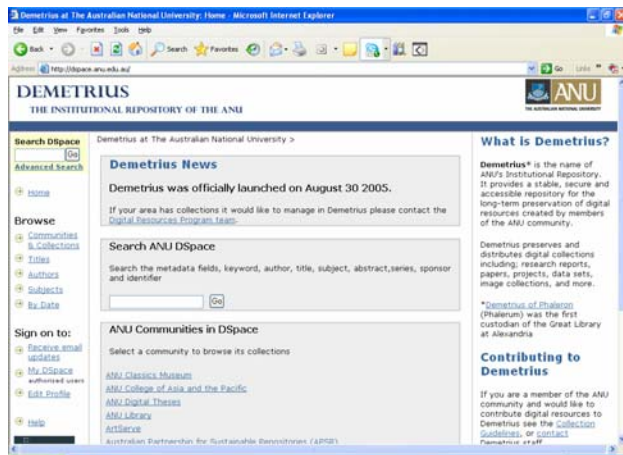
The page also includes a search box with the text "Enter some text in the box below to search DSpace." and a "Go" button. Below the search box, there is a section titled "Communities in DSpace" with the text "Choose a community to browse its collections." and two links: "Electronic Theses and Dissertations" and "Special Collections".

The left sidebar contains several navigation options:

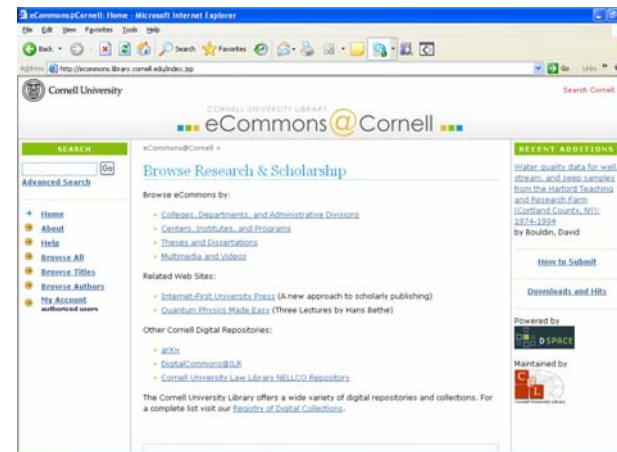
- Search DSpace**: A search box with a "Go" button and a link to "Advanced Search".
- Home**: A link to the home page.
- Browse**: A list of links including "Communities & Collections", "Titles", "Authors", and "By Date".
- Sign on to:** A list of links including "Receive email updates", "My DSpace authorized users", and "Edit Profile".
- Help**: A link to the help page.
- About DSpace**: A link to the about page.

The footer of the page contains the text "DSpace Software Copyright © 2002, 2005 MIT and Hewlett-Packard. Feedback".

900 + Repositories International



Univ. of Australia



Cornell University



University of St Andrews

And many more

Our focus ...

- Scholarly publications (journal articles)
- Historical & archival material
- Popular research material
- Unpublished research
- Inaugural addresses
- Conference proceedings
- PDF documents, photos, images, video clips, sound clips

Dynamic response of biofilm to pipe surface and fluid velocity

T.E. Cloete, D. Westaard and S.J. van Vuuren

Introduction

Numerous research efforts have focused on the development of biofilms (Costerton *et al.*, 1995; Cloete, *et al.*, 1998). MIC is caused by the presence of bacteria in water systems, especially by bacterial biofilms and to prevent this, such bacterial biofilms must be removed. Five mitigation approaches are currently followed: (i) bacteria are chemically killed by application of bactericidal compounds, termed biocides, at lethal doses, (ii) biofilms are dispersed by dispersants, (iii) biofilms are removed physically by a variety of processes, (iv) the biofilm structure is weakened by enzymes or chelants, and (v) planktonic bacterial numbers are controlled by ultraviolet light (Cloete *et al.*, 1998).

However, in order to be more effective in the control of biofouling, it is also very important to identify the growth conditions that are less favorable for microbial activity and biofilm formation. Biofilms are subjected to fluid shear effects, including detachment caused by flowing water (Lawrence *et al.*, 1995; Vieira *et al.*, 1993). Detachment was classified into four categories by Bryers, (1988) i.e. erosion; sloughing; abrasion and grazing. Trulear and Characklis (1982) found that detachment increases with fluid velocity and mass of biofilm. When the shear stress decreased, it had no effect on detachment. Peyton (1996) studied erosion and concluded that detachment is not affected by the shear stress. Understanding the dynamic response of biofilms to various flow velocities could lead to a better understanding of how flow velocity influences the growth and adhesion of the biofilm and whether it is possible to decrease biofilm formation and/or increase detachment, by manipulating flow velocities.

The main objective of this study was therefore to monitor biofilm development and to study the effect of fluid velocity on biofilm formation on different piping materials used in potable water distribution systems.

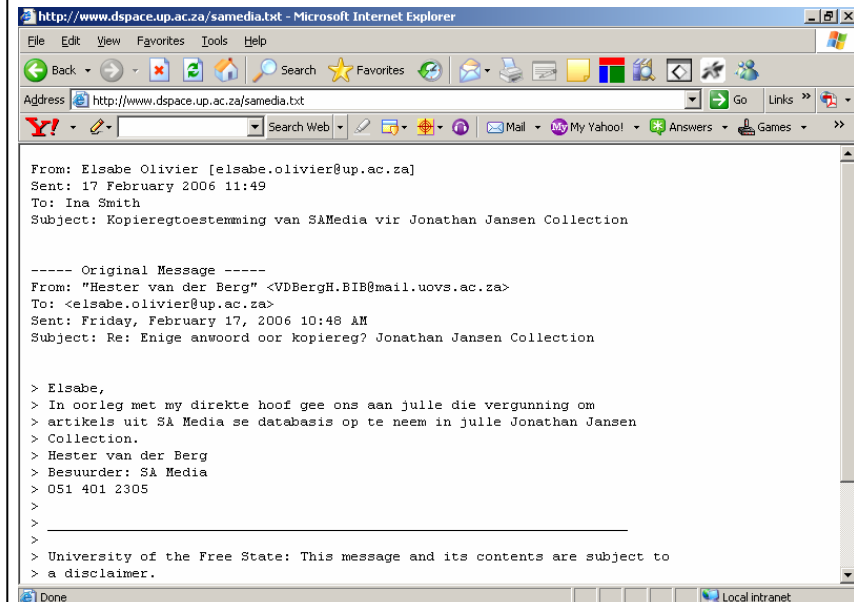
Materials and methods

Evaluation of fluid velocity on biofilm formation

To test the effect of velocity on the growth of biofilm, a Roto-Scope was designed and built to imitate the flow conditions in potable water distribution systems. Two sets of pipe sections were made in order to test more than one velocity during the test period.



<http://www.sherpa.ac.uk/romeo.php>



Source: FINANCIAL MAIL

Date: 13-May-2005

Topic: 19

Ref No: 3041



1

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

The row 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 row erupted again after GrainSA's application to the International Trade Administration Commission recently.

With the advent of democracy in 1994, SA adopted a liberalised trade policy regime in line with the World Trade Organisation's (WTO) philosophy of freer trade. These free-trade principles were implemented quite rapidly after the 1994 Marrakech agreement.

By 2004 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 freeing 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 say they should be protected.

Various studies argue that the removal of trade-distorting agricultural policies of developed countries would entail 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.

ment, through the land 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 unfair 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? White commercial farmers had this protection for years and though it protected inefficiencies, 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 tariff protection: producers enjoy high price guarantees but consumers are worse off since they have to pay more for the product. With high poverty levels in SA, this would be a major concern. It has to be weighed against potential job losses and farm bankruptcies.

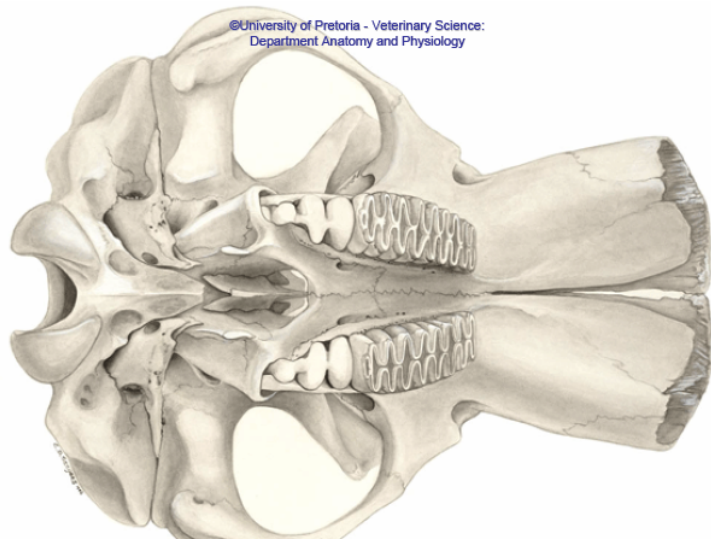
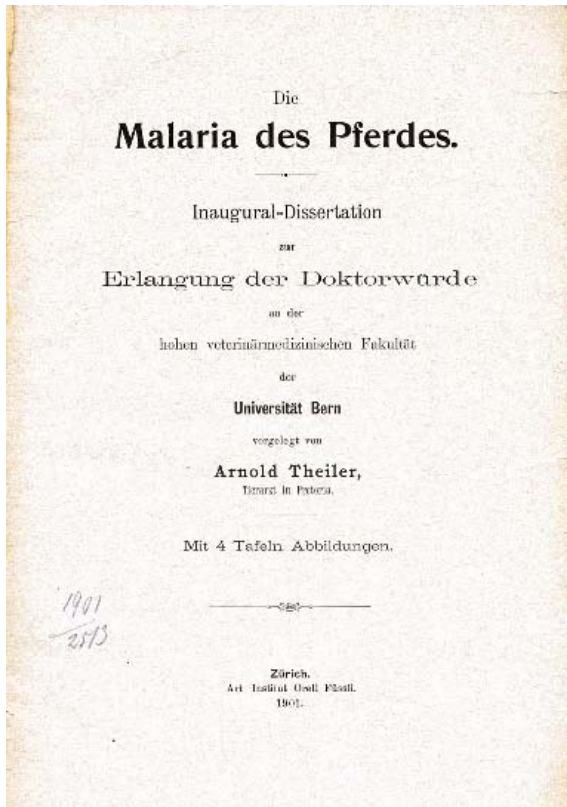
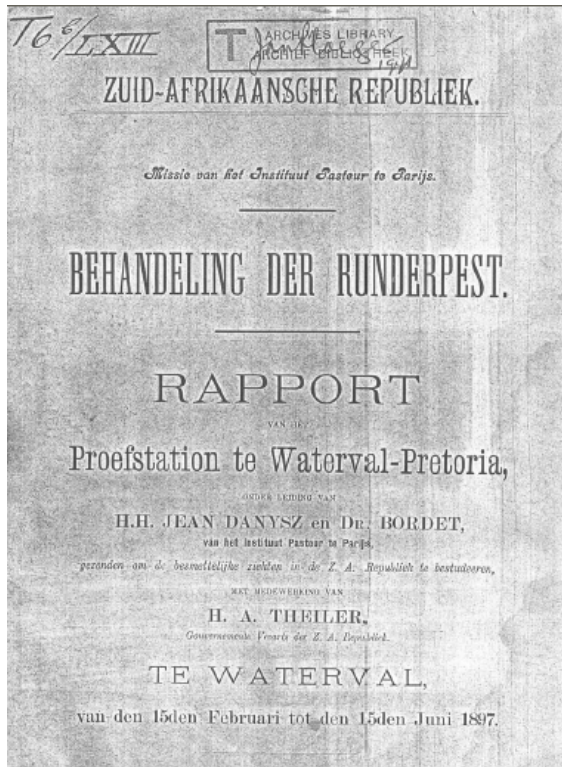
But if we depart from the standpoint that tariffs do have an impact on the domestic price of imported commodities, the critical question to answer is: what is the real impact of this increase on consumer prices? In a recent study conducted by the University of Pretoria's Bureau for Food & Agricultural Policy Research, it was found that an increase in the wheat import tariff from the current level of 2% of the world price of wheat to 30% would increase the domestic wheat price by R137/t. Linking this increase to a price transmission model showed an increase in the cost of flour of 8c/loaf, which would result

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 Windows Media Player

Click to play video clip



UPSpace at the University of Pretoria: Item 2263/2311 - Microsoft Internet Explorer


Address: <https://www.up.ac.za/dspace/handle/2263/2311>

Menu - Yahoo! Search - My Games - Turbo Pizza - NEW - #1 - Azada - Play Online - Coupons and Tokens

My UPSpace authorized users
 Edit Profile
 Help
 About DSpace

Creation Date: 9-Nov-2004
Description: Programme of ceremony, inaugural address and photo of Prof Carolina Koornhof.
URI: <http://hdl.handle.net/2263/2311>
Rights: University of Pretoria
Type: Image
 Presentation
Language: en
Appears in Collections: [Inaugural Addresses](#)

Files in This Item:

File	Description	Size	Format	
ckoornhof_letter of consent.pdf	Letter of Consent	26Kb	Adobe PDF	View/Open
ckoornhof_photo.2004.JPG	Photo	1571Kb	JPEG	 View/Open
ckoornhof_paper_2004.pdf	Paper	147Kb	Adobe PDF	View/Open
ckoornhof_programme.pdf	Programme	29Kb	Adobe PDF	View/Open

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Play Online - Coupons and Tokens

University of Pretoria **UPSpace**

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Please use this identifier to cite or link to this item: <http://hdl.handle.net/2263/2311>


Title: Balancing general and professional education in the economic, financial and management sciences
Inquiries: carolina.koornhof@up.ac.za
Author/s: Koornhof, Carolina, 1959-
LC Subjects: Management -- Study and teaching (Higher) -- South Africa
 Economics -- Study and teaching (Higher) -- South Africa
 Finance -- Study and teaching (Higher) -- South Africa
Keywords: Professional education
 General education
 Economic sciences
 University of Pretoria
 Teaching programmes
Issue Date: 26-Apr-2007
Creation Date: 9-Nov-2004
Description: Programme of ceremony, inaugural address and photo of Prof Carolina Koornhof.
URI: <http://hdl.handle.net/2263/2311>
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Type: Image

Archaeology: VR - Microsoft Internet Explorer

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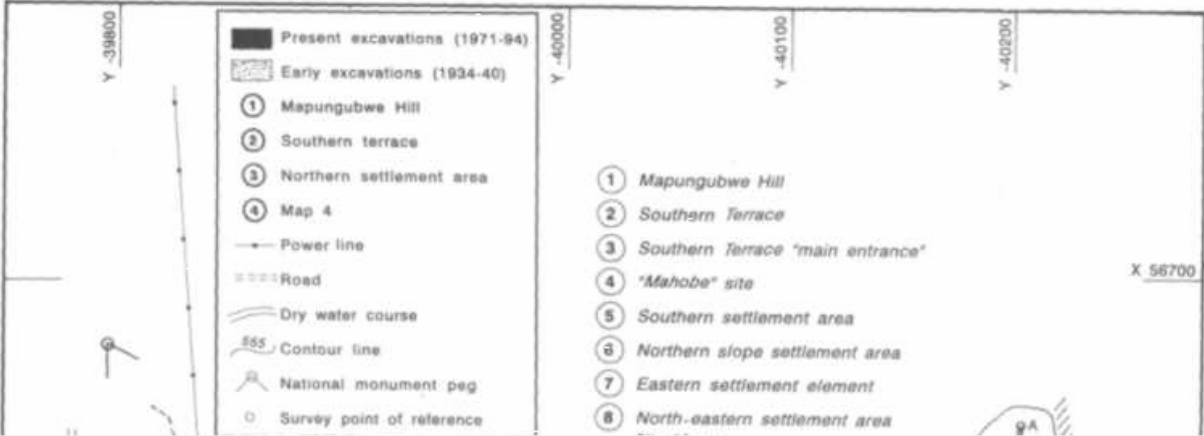
Back Forward Stop Home Search Favorites Refresh Print Mail Stop

Address http://hagar.up.ac.za/catts/learner/ameyer/dphil/agl_vr.htm Go Links Search Encarta




Below is a map of Mapungubwe. You may visit some of these sites.

Move your mouse over the map, and feel free to explore!



Y -39800 Y -40000 Y -40100 Y -40200 X 56700

- Present excavations (1971-84)
- Early excavations (1934-40)
- 1 Mapungubwe Hill
- 2 Southern terrace
- 3 Northern settlement area
- 4 Map 4
- Power line
- Road
- Dry water course
- 555 Contour line
- National monument peg
- Survey point of reference
- 1 Mapungubwe Hill
- 2 Southern Terrace
- 3 Southern terrace "main entrance"
- 4 "Mahobe" site
- 5 Southern settlement area
- 6 Northern slope settlement area
- 7 Eastern settlement element
- 8 North-eastern settlement area



Internet

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 PROGRAMME***

J F Kirsten², J van Zyl³ and HJ Sartorius von 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 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

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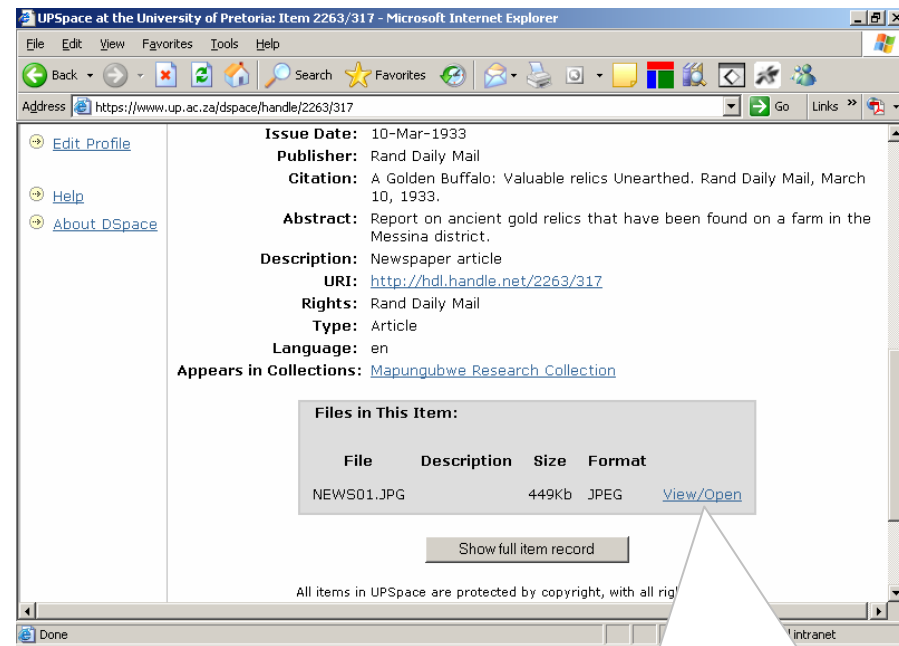
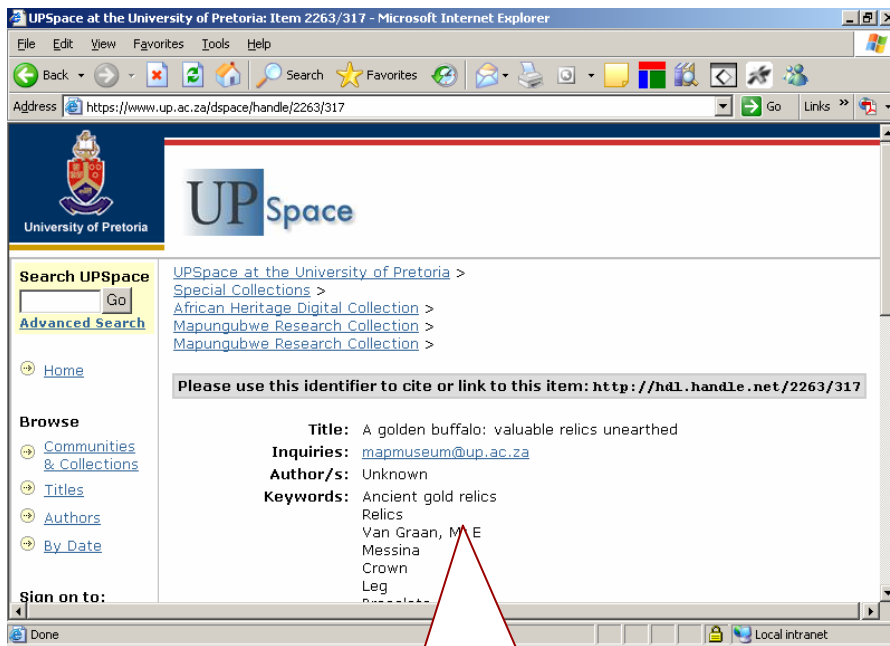


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GGGGGCATGCCTGTTCGAGCGTCAATTACAACCCTCAAAGCTCTGCTTGGAAATTGGGCACCGTCCTCACTGC  
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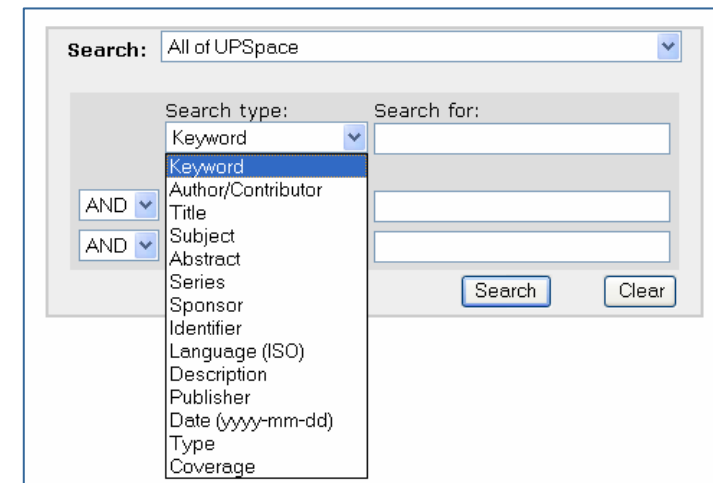
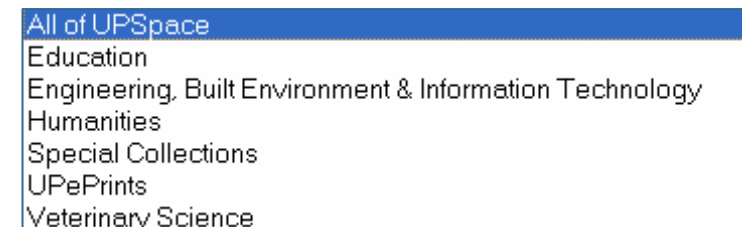
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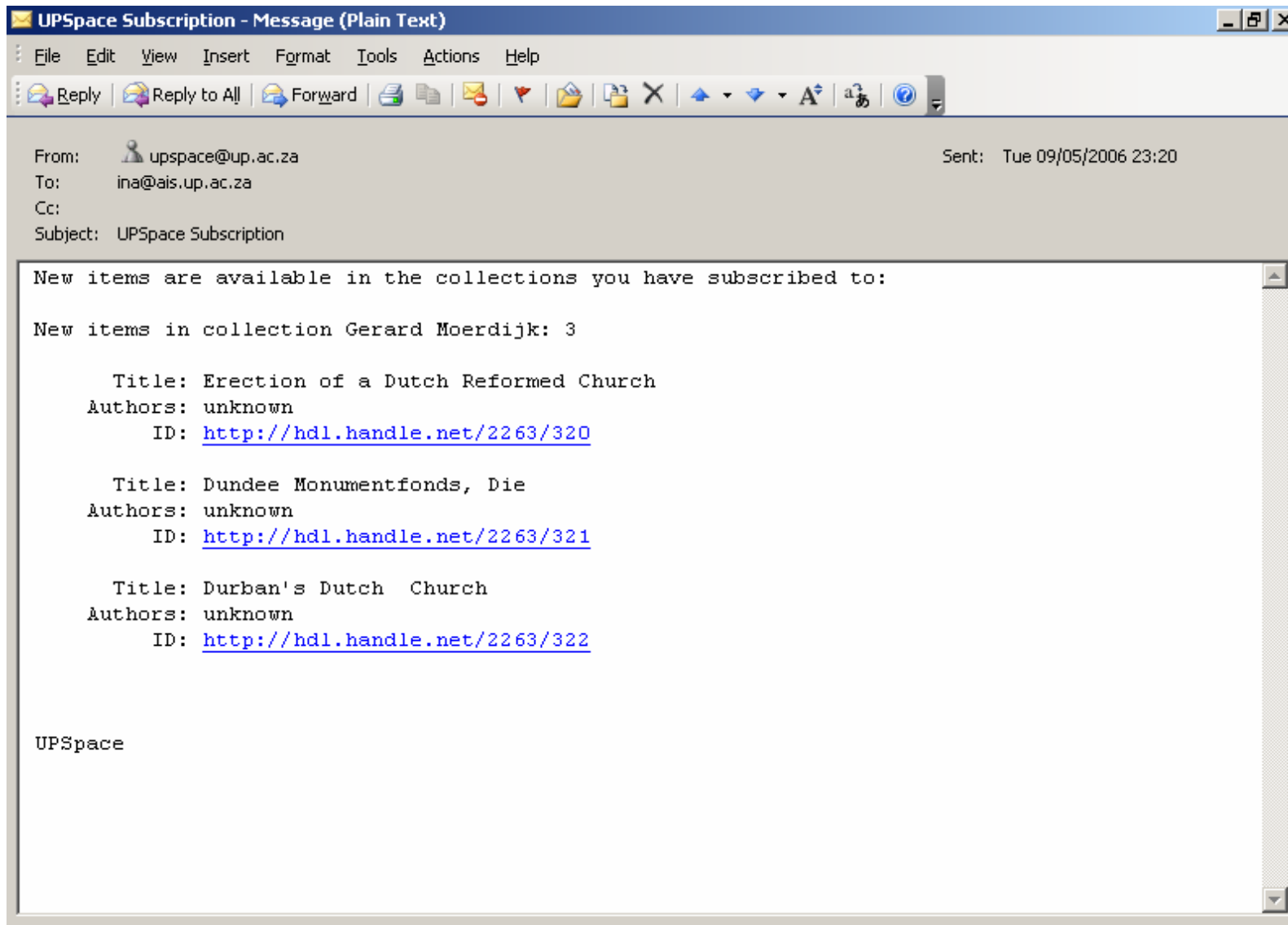
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Date of Issue	Title	Authors
26-Jul-2007	Acta Criminologica : South African Journal of Criminology letter of consent	<i>elsabe.olivier@up.ac.za; De Villiers Minnaar, Anthony</i>
13-Jul-2007	Acta Juridica letter of consent	<i>elsabe.olivier@up.ac.za; De Kock, Ria</i>
19-Jun-2007	Acta Patristica et Byzantina letter of consent	<i>elsabe.olivier@up.ac.za; Stander, Hennie, 1953-; Stander, H.F. (Hendrik Frederik), 1953-</i>
11-Jun-2007	Acta Theologica letter of consent	<i>elsabe.olivier@up.ac.za; Tolmie, Francois</i>
1-Oct-2007	Africa Journal of Nursing and Midwifery letter of consent	<i>elsabe.olivier@up.ac.za; Le Roux, Elizabeth</i>
13-Jul-2007	African Human Rights Law Journal letter of consent	<i>elsabe.olivier@up.ac.za; De Kock, Ria</i>
25-Jul-2007	African Journal for Physical Health Education Recreation & Dance letter of consent	<i>elsabe.olivier@up.ac.za; Amusa, L.O.</i>

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Author Name: [Nicholson, Caroline, 1960-](#)

Title: **Same game, new name? : the more things change in legal education the more they stay the same : professorial inaugural address, 11 May 2004 / C Nicholson.**

Publisher: [Pretoria : University of Pretoria, 2004]

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Title: Same game, new name? The more things change in legal education the more they stay the same

Inquiries: caroline_nicholson@up.ac.za

Author/s: Nicholson, Caroline, 1960-

LC Subjects: Law -- Study and teaching (Higher) -- South Africa

Keywords: Legal education
086
Supplemental instruction
Problem solving
Thinking skills
Outcomes based education

Issue Date: 2004

Creation Date: 11-May-2004

Publisher: University of Pretoria

Description: Inaugural address

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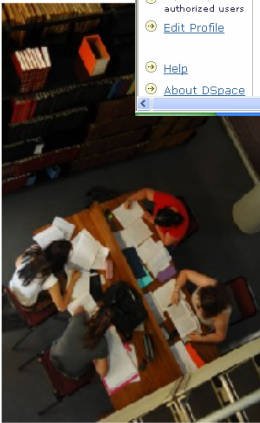
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Title: Dialogue among pre- and post-genetic revolution civilisations
Issn: donrich.jordaan@up.ac.za
Author/s: Jordaan, Donnich W.
LC Subjects: Genetics
Nature and nurture
Public policy
Keywords: Genetic revolution
Pre- and post-revolution
Civilisation
Policy paradigms
Mechanisms of life
Open society
Education
Issue Date: 2006
Publisher: Vaal Triangle Faculty of Northwest University in South Africa
Citation: Jordaan D 2006, 'Dialogue among pre- and post-genetic revolution civilisations', TD: The Journal for Transdisciplinary Research in Southern Africa, vol. 2, no. 2, pp. 369-379. [<http://www.td-sa.net/>]
Abstract: The genetic revolution will have a profound impact on human society and therefore on the public policy environment. This article aims to describe the public policy paradigms and paradigm shifts that

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Date of Issue	Title	Authors
Dec-1999	The agricultural input industry and the competitiveness of South African agriculture	Johann.Kirsten@up.ac.za; Kirsten, Johann F.
Jan-1998	Agricultural market liberalization: a case study of the Western Cape Province in South Africa	Johann.Kirsten@up.ac.za; Van Zyl, Johan; Vink, Nick; Townsend, Rob; Kirsten, Johann F.
Dec-1998	An analysis of the comparative advantage and policy incentives of commercial wheat production in South Africa	Johann.Kirsten@up.ac.za; Kirsten, Johann F.; Ohene-Agyang, Ernest; Van Rooyen, Johan
Mar-1000	An analysis of the impact of different scenarios on the market for stockfeed	Johann.Kirsten@up.ac.za; Esterhuizen, D.; Van Zyl, Johan;

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Title: Symptomatic treatment of upper respiratory tract symptoms in children
Inquiries: robin.green@up.ac.za
Author/s: Green, Robin J.
LC Subjects: Respiratory infections in children
Symptoms
Therapeutics
Anti-infective agents
Steroids
Hay fever in children
Keywords: Upper respiratory tract infections
Antibiotics
Issue Date: May-2006
Citation: Green, RJ 2006, 'Symptomatic treatment of upper respiratory tract symptoms in children', South African Family Practice, vol. 48, no. 4, pp. 38-42. [www.safpj.co.za]
Abstract: Most upper respiratory tract infections are viral and treatment of a viral URTI is symptomatic. Today, with the emergence of antimicrobial resistance, antibiotics must be thought of as contra-indicated. Acute bacterial sinusitis may complicate a viral URTI. All special investigations for diagnosing acute sinusitis are unhelpful. Treatment of pain and fever are usually the only nonspecific measures that help. Antimicrobial treatment has become a mainstay of acute sinusitis but there are studies suggesting that antibiotics do not alter the course of the disease. Since hearing loss is a risk of

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Green RJ : 2006. Leukotriene receptor antagonists in asthma with allergic rhinitis. Current Allergy and Clinical Immunology , 19 (4) / Nov, pp 1-3.
Holl JL , Smuts I : 2006. Bilateral, posterior parietal polymicrogyria as part of speech therapy work-up. SA Journal of Radiology , 10 (1) / Mar, pp 25-27.
Green RJ : 2006. Cost-effectiveness of asthma therapy. South African Family Practice , 48 (2) / Mar, pp 44-47.
Green RJ : 2006. Asthma control - is there a problem?. South African Family Practice , 48 (4) / May, pp 32-36.
Green RJ : 2006. Symptomatic treatment of upper respiratory tract symptoms in children. South African Family Practice , 48 (4) / May, pp 38-42.
Wittenberg DF : 2006. Gastroenteritis in young children. South African Family Practice , 48 (4), pp 20-23.
Lubbe E : 2006. Movement disorders in children. South African Paediatric Review , 3 (2), pp 26-36.

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The screenshot shows a Microsoft Internet Explorer browser window. The address bar displays the URL: <https://www.up.ac.za/dspace/handle/2263/931>. The browser is displaying two pages side-by-side. On the left is a Google Scholar search results page for the query "The right to health in the global economy: reading human rights obligations into the patent regime of the WTO-TRIPS Agreement". The search results list several entries, with the top one being a dissertation by M. Musungu from 2001. On the right is the UP Space item page for the same dissertation. The page includes a search bar, navigation links, and a detailed metadata section. A green arrow points from the search results to the item page.

UPSpace at the University of Pretoria: Item 2263/931 - Microsoft Internet Explorer

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Title: The right to health in the global economy: reading human rights obligations into the patent regime of the WTO-TRIPS Agreement

Author/s: Musungu, Sisule Fredrick

Keywords: Right to health, Access to medicine, International human rights law, Human rights, Intellectual property, Pharmaceutical patents, Globalisation, Access to health care, World Trade Organisation, WTO, Agreement on Trade Related Aspects of Intellectual Property Rights, TRIPS, International Covenant on Economic, Social and Cultural Rights, ICESCR

Issue Date: 2001

Creation Date: Nov-2001

Series/Report no.: LLM Dissertations 2001/11

Scholar Results 1 - 7 of 7 for "The right to health in the global economy: reading human rights obligations into the patent regime of the WTO-TRIPS Agreement"

All Results [M UPSpace](#)

Tip: Try removing quotes from your search to get more results.

[DOC] ... [global economy: Reading human rights obligations into the patent regime of the WTO-TRIPS Agreement](#) F Musungu - International yearbook of regional human rights masters ... , 2001

The Right to Health in the Global Economy: Reading Human Rights Obligations into the Patent Regime of the WTO-TRIPS Agreement. A ...

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[A comparative study of the implementation in Zimbabwe and South Africa of the international law ...](#) M UPSpace - 2004 - up.ac.za

... The right to health in the global economy, reading human rights obligations into the patent regime of the WTO-TRIPS agreement," International yearbook of ...

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Author/s: Muqambe, Lydia

Microsoft Internet Explorer browser window showing a Google search for "Africa as a knowledge society". The search results are displayed in a list format. The first result is from UPspace at the University of Pretoria, titled "Africa as a knowledge society: a reality check". The second result is from The International Information & Library Review, titled "Africa as a knowledge society: A reality check Using these four pillars as criteria we then analyze Africa as a knowledge society. ...". The third result is from CAT.INIST, titled "Africa as a knowledge society: A reality check. Auteur (s) / Author(s). BRITZ J. J. (1 2) ; LOR P. J. (3 4) ; COETZEE ...".

“Africa as a knowledge society”

[UPSpace at the University of Pretoria: Item 2263/291](#)
Title: **Africa as a knowledge society: a reality check.** Inquiries: , britz@sois.uwm.edu.
Author/s: , Britz, J.J. Lor, P.J. Coetzee, I.E.M. Bester, B.C. ...
<https://www.up.ac.za/dspace/handle/2263/291> - 14k - [Cached](#) - [Similar pages](#)

[PDF] [Africa as a knowledge society: A reality check](#)
File Format: PDF/Adobe Acrobat - [View as HTML](#)
four pillars as criteria we then analyze **Africa as a knowledge society**. We end the. article with some comments regarding the road ahead. ...
<https://www.up.ac.za/dspace/bitstream/2263/291/3/Britz%25282006%2529a.pdf> - [Similar pages](#)
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[The International Information & Library Review: Africa as a ...](#)
Africa as a knowledge society: A reality check Using these four pillars as criteria we then analyze **Africa as a knowledge society**. ...
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Britz, Lor, Coetzee, & Bester (2006) Johannes Britz, Peter Lor, I.E.M. Coetzee and B.C. Bester, **Africa as a knowledge society: A reality check, ...**
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Bester, B.C., Britz, J.J., Coetzee, I.E.M., and Lor, P.J. "**Africa as a Knowledge Society**. A ...

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Upspace

From Wikipedia, the free encyclopedia

UPSspace (Institutional research repository of the [University of Pretoria](#)) is the name of the open access digital [institutional repository](#) of the [University of Pretoria, South Africa](#). A digital institutional repository in the context of a higher education institution can be defined as "a set of services that a university 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."^[1] UPSpace contains a collection of the intellectual/ research output produced by past and current researchers of the University of Pretoria. The spectrum of material covered in UPSpace includes the following:

Historical/ archival material - after it has been digitized; Research articles (scholarly publications); Popular research material; Unpublished research; Inaugural addresses; Conference proceedings; Technical reports; Open lectures, and many more.

The main objectives of an institutional repository are: 1) to enhance the visibility of the knowledge products created by an institution's members by providing easy open access, and 2) to preserve the intellectual output of the members of that community for years to come.

The open source platform, [DSpace](#), which was developed by an MIT-Hewlett Packard alliance, is used for UPSpace.

Communities & Collections on UPSpace

[\[edit\]](#)

- Centre for the Study of AIDS (CSA)
- Department of Library Services
- Economic & Management Sciences
- Education
- Education Innovation
- Engineering, Built Environment & Information Technology
- Health Sciences
- Humanities
- Law
- Mapungubwe Collections
- Natural & Agricultural Sciences

**University of Pretoria
institutional digital repository
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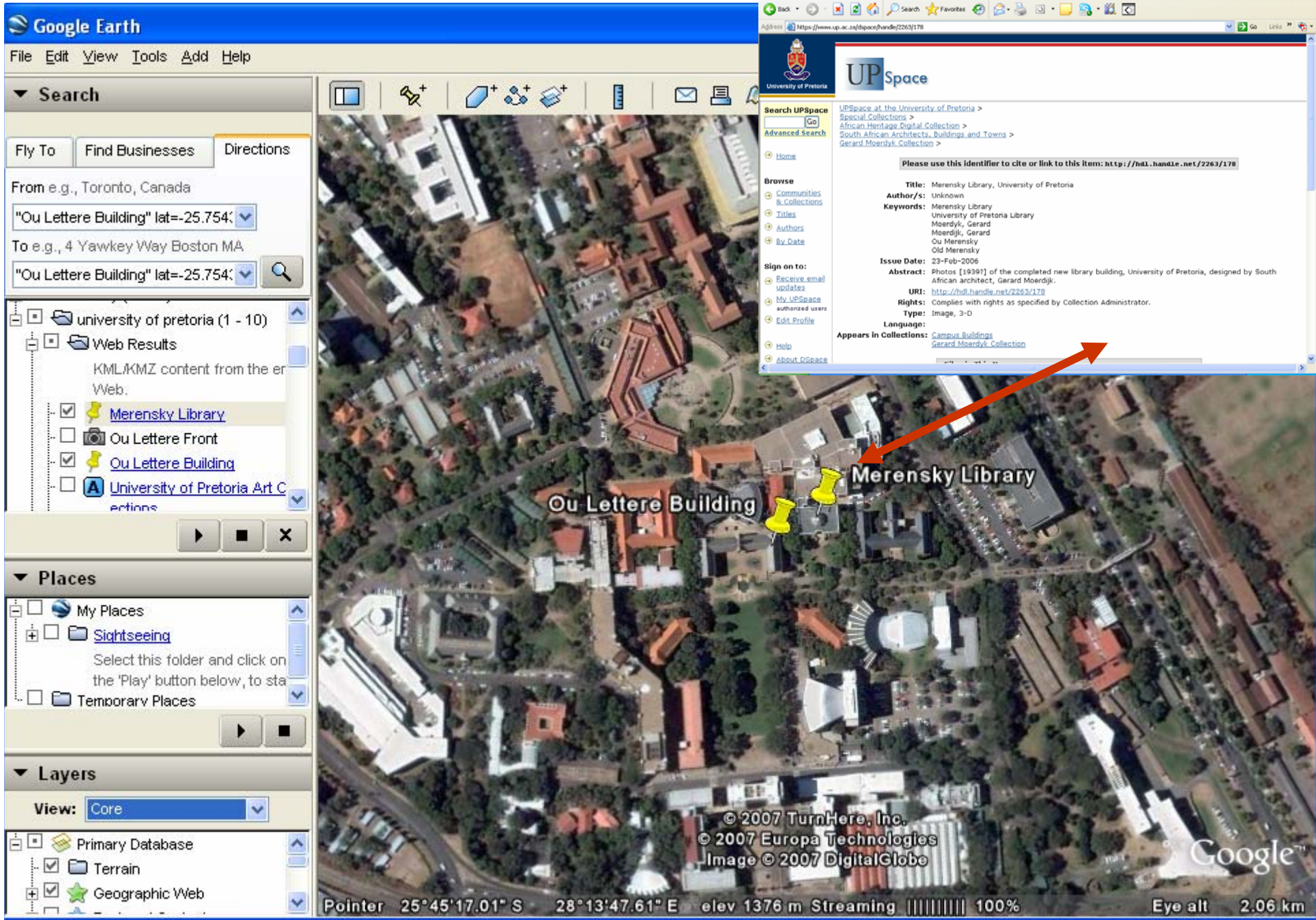
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International Harvesters

- DSpace <http://www.dspace.org/>
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- ROAR <http://roar.eprints.org/>
- Open Archives Institute <http://www.openarchives.org>
- OAISTER <http://www.oaister.org/>
- DRIVER <http://www.driver-repository.eu/>
- eIFL (SURFshare)
<http://eifl.sharelab.cq2.org/en/page/page.view/eifl.page>
- Scopus & Scirus

Collaboration

Mail From: "Heila Pienaar" <Heila.Pienaar@up.ac.za>

File Edit View Actions Tools Accounts Window Help

Close Reply Forward

Mail Properties Message Source

From: "Heila Pienaar" <Heila.Pienaar@up.ac.za> 2007/07/09 09:54 AM
To: ainfo@kendy.up.ac.za
BC: Ina Smith
Subject: [ainfo] Nifty automated search links in DSpace

Colleagues - the co-operation between the UP and CSIR information services with regard to DSpace is a very good example of the mutual benefits that can be derived from such endeavours.

>>> "Martie Van Deventer" <MvanDeve@csir.co.za> 2007/07/09 04:16 AM >>>
Hi Everyone,

You may already know this but we have discovered automated search linking in DSpace and it is buying us lots of accolades with management and research staff. Thought you may also want to make use of the facility if you are not doing so already.

Automated search linking works like this: you conduct a search in DSpace, for example, for an author Brown, Jack and get the result. You copy the URL (from/on the results page) and hard code it into Jack Brown's CV or personal web page as, for example, *Publications*. Whenever someone then clicks on *Publications* the link goes back to DSpace conducts the search and returns an updated results page listing all the author's documents.


The same thing can be done at community level. We are inserting a 'Publications' link on the Internet home pages of each of our research units which then links back to their communities in the CSIR ResearchSpace (this is what we are calling our DSpace). This means their publications list will automatically be updated as we update Research Space. and we are happy because it should encourage all to provide us with their publications!!

All of this is still behind our fire wall because the new CSIR Internet site as well as ResearchSpace will only be launched on 1 August. We are however starting to test ResearchSpace outside the firewall later today/early tomorrow.

You are welcome to search for [www.http://researchspace.csir.co.za](http://researchspace.csir.co.za) and let us know if you find any hiccups that we should fix before the formal launch.

Have fun!
Martie

MJ van Deventer (Dr)
Portfolio Manager
CSIR's Information Services
PO Box 395
Pretoria
0001



Outcomes of our IR

- New roles & responsibilities were generated
- Communities of practice (social networks) e.g. Dept. of Architecture & Library (Hettie Groenewald)
- Knowledge transfer
- Organizational learning
- Change of mind-sets
- Empowerment
- Teamwork

To do list

- 1st African Digital Curation Conference
- Community of Practice – other institutions
- Investigate archiving of research data sets
- Study re trusted digital repositories
- Dissertations to UPSpace
- Integrate IR with RIMS
- Faculties/ departments take responsibility for self-archiving of research output - mandatory

<http://stardata.nrf.ac.za/nadicc/>



1st African Digital Curation Conference

African Digital Curation Conference

[Home](#) | [Registration](#) | [Accommodation](#)

1st African Digital Management and Curation Conference and Workshop

12 and 13 February 2008, at the CSIR Convention Centre, Pretoria

Preliminary Programme

Conference fee: R2 500 p/p

Day 1: Conference

08:00 – 08:30

Registration

08:30 – 09:00

Welcome and Keynote: The implications of the OECD declaration for African/ South African policy on research data and information management and curation, *Department of Science and Technology representative*

09:00 – 11:00

Theme 1: Overview : International trends

- eScience : providing context, *Hans Falk Hoffmann, CERN*
- International data policy overview, *Paul Uhler Director, Office of International S&T Information Programs and*

A collaborative initiative under the auspices of:



Collaborative partners:



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upspace@up.ac.za

Tel.: +27 12 420 3082

Visit:

<https://www.up.ac.za/dspace/>

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