Research @ universities: Cited more, Safe forever*

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

Presented by Ina Smith

*Acknowledgement: University of Michigan
UP leads international Eucalyptus genome project addressing world energy crisis

by Pini Zinner Myburg

Posted on 11 July 2007

The University of Pretoria, in collaboration with several other international research organizations and the Department of Energy (DOE) Joint Genome Institute, is working on enhancing our understanding of Eucalyptus to provide biolign by studying the genes of these useful trees.

Shanghai Jiao Tong University

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

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H-number (or H-Index)
“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 (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

- Research on IR
- Increased usage, impact
- Increase in citation rate
- Impact on NRF Rating etc.
- Shanghai University List
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
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

Only digital material can be submitted: digitized or digitally born

Source:
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

**UP Client / retrieval**

**UP Digital Repository**
**UPSpace Manager**: Ina Smith

**Special Collections**
Collection Manager: Pieter vd Merwe

**EMS**
Collection Manager: Ujala Satgoor

**Education**
Collection Manager: Johann van Wyk

**EBIT & NAS**
Collection Manager: Elna Randall

**Veterinary Sciences**
Collection Manager: Erica vd Westhuizen

**Health Sciences**
Collection Manager: Magriet Lee

**Humanities & Theology**
Collection Manager: Maureen du Pisanie

**Law**
Collection Manager: Shirley Schröder
Champions

Gerard Moerdijk Collection
Arnold Theiler Collection
Research Articles
Jonathan Jansen Collection
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 Armiella 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.

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

Collection Policies

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

Please provide the name/s and also description/s of the Communities / Collections

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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 collection, organisation, storage, and retrieval of digital information produced and acquired by the University. The information includes theses, and research outputs donated to or created by the University 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.
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.
Stellenbosch University Institutional Repository

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.

Search

Enter some text in the box below to search DSpace.

Communities in DSpace

Choose a community to browse its collections.

Electronic Theses and Dissertations
Special Collections
900 + Repositories International

Univ. of Australia
Cornell University
And many more ....

University of St Andrews
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., 1990). 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., 1993).

However, in order to be more effective in the control of biofilmin, 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 (Larrence et al., 1995; Viets et al., 1993). Detachment was classified into four categories by Eryyes (1988): i.e. erosion, scouring, abrasion and grinding. Turner and Champion (1982) found that detachment increases with fluid velocity and mass of biofilm. When the shear stress decreased, it had no effect on detachment. Peyron (1990) studied erosion and concluded that detachment is not affected by the shear stress. Understanding the dynamic response of biofilm 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 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 possible 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 Bote-Scope was designed and built to imitate the flow conditions in possible water distribution systems. Two sets of pipe sections were made in order to test more than one velocity during the test period.
PROTECTION UP TO A POINT

Johann Kirsten

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 Marakesh 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.

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

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? While commercial farmers had this protection for years and through 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 R170/t. Linking this increase to a price transmission model showed an increase in the cost of flour of R6/t, which would result...
Die Malaria des Pferdes.

Inaugural-Dissertation zur Erlangung der Doktorwürde der Medizinischen Fakultät der Universität Breslau vorgelegt von Arnold Theiler. 1887.

Mit 4 Tabellen, Abbildungen.
Below is a map of Mapungubwe. You may visit some of these sites.

Move your mouse over the map, and feel free to explore!
THE ROLE OF EXTENSION IN TRADITIONAL AGRICULTURE: EVIDENCE FROM THE FARMER SUPPORT PROGRAMME
J F Kranen, J van Zyl and HJ Daniels von Bijn

ABSTRACT
This paper evaluates the extension and training element of the FSP as implemented in the farmer support programmes of Venda and Limpopo. 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 plays 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.

UUTREKSEL
Hierdie artikel beveel die opleiding en voorliggingskomponent van die kleinhouder ondersteuningsprogram ("Farmer Support Programme" - FSP) aan in die ander gevalle van Venda en Limpopo. Die belangryke en bydrae van opleiding en voorligging in die sukses van hierdie program is en nie onderskoon nie, moet verhoog in produktye. Tel vir elkeet se opleiding en voorligging tot die verhoging in produktye bydra, by algemien in punt van disput. Omdoende in die artikel toon algemien dat die verkrybare hulpbronne meer produsente, dan hul geleerde verigting ontv. Dit se wat dan voorkom as opleiding en voorligging om na loosvolle produktye bydra tot hoër opstaple in die gevalle waar die kleinhout ondersteuningsprogram geïmplementeer is.

1. INTRODUCTION

In response to the intractable and costly large scale project approach in homelands 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

Data sets

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Items in the IR

Item consists of ...

Metadata

Bitstream(s)/File(s)
Also multiple bitstreams
Searching

Search Options

- Full text
- Keyword (Basic Search)
- Advanced Search
- Browse
  - Communities & Collections
  - Titles
  - Authors
  - Date
Receive e-mail alerts
New items are available in the collections you have subscribed to:

New items in collection Gerard Moerdijk: 3

Title: Erection of a Dutch Reformed Church
Authors: unknown
ID: [http://hdl.handle.net/2263/320](http://hdl.handle.net/2263/320)

Title: Dundee Monumentfonds, Die
Authors: unknown
ID: [http://hdl.handle.net/2263/321](http://hdl.handle.net/2263/321)

Title: Durban's Dutch Church
Authors: unknown
ID: [http://hdl.handle.net/2263/322](http://hdl.handle.net/2263/322)
Recommend an item
Restrict access

- Collection Level
- Item Level
- Bitstream Level (File)
- PDF password (File)

Please enter your email/portal username and password

Username
Password
Login

LDAP Authentication
Statistical reports

Statistics for University of Pretoria on...

Dec 14, 2005 to May 8, 2006

General Overview

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Amount of items
Items viewed & number of views
User logins
Words searched
Training & Support

• Group/ Individual training
• IT Help 8/5
• Animated Online Tutorial
• upspace@up.ac.za
• UPSpace Listserv
• UPSpace Web
• Collection Policies
• Frequent communication
Rights, Copyright, Licensing

- **License** stored with each item
- DC Element “Rights” – individual items
- Copyright/ Rights note for Collection/ Community
- Add permission note/deed of gift
- Collection of letters of consent by publishers
- SHERPA/ RoMEO Publishers Policies

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http://www.dspace.up.ac.za/defaultlicense.pdf
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Marketing the IR

• Start at home: library staff
• Library & UP management
• Visits to departments
• Pamphlets
• Campus newsletters & publications
• E-mails
• Media
• Marketing events
Registering on the WWW

- Library Catalogue
- Web pages
- Search Engines (Google & Google Scholar)
- Metadata Harvesters
- IR Registries
Library Catalogue
The Faculty of Economic and Management Sciences currently has nine staff members who obtained their NRF ratings. Several researchers in the Faculty also received national and international acknowledgement for the excellence of their research.
Research Report

Research 2006

Research articles in refereed specialist journals

Department of Paediatrics

Journal Title

Green BJ. 2006. Leukotriene receptor antagonists in asthma with allergic rhinitis. Current Allergy and Clinical Immunology, 15 (4) / Nov, pp 1-3.


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 contraindicated. 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 fever is a risk of
Dept. of Research Support Web Page

Research

Being an internationally recognised South African teaching and research intensive university is central to the University of Pretoria's new strategic plan.

Since its humble beginnings in 1908, the University has gone a long way to achieving this goal and is currently considered to be one of the leading institutions of higher education in the country.

To further strengthen its position as a premier research institution and to ensure future success, the UP has developed a research agenda based on four principles:

- **Research**  
  Research will make a positive contribution to local, national and international needs aligned with the National R&D strategy as well as international trends.
  Research will be based on the proven capacity that exists within the University and will be built on work of excellent researchers and research leaders.
  Research themes will not only be defined on short-term needs, but also be visionary in that they will identify areas of future potential that will require the University to build competencies in order to remain a premier research institution; and
  The University research agenda should also take cognisance of unique competencies that exist within the University.

The Department of Research Support plays an integral role in the practical implementation of the University's research agenda. The department has as its core function the promotion of a range of...
The right to health in the global economy: reading human rights obligations into the patent regime of the WTO-TRIPS Agreement.

Authors: Muambe, Lydia
“Africa as a knowledge society”

Title: Africa as a knowledge society: A reality check
Authors: Britz, J.J., Lor, P.J., Coetzee, I.M., Bester, B.C.
Published: 2006

Abstract:
Africa as a knowledge society: A reality check. Using these four pillars as criteria we then analyze Africa as a knowledge society. We end the article with some comments regarding the road ahead.

Publisher's Record

UPSpace at the University of Pretoria: A reality check. Africana knowledge society: A critical analysis. Using these four pillars as criteria we then analyze Africa as a knowledge society. We end the article with some comments regarding the road ahead.

The International Information & Library Review: Africa as a knowledge society: A reality check. Using these four pillars as criteria we then analyze Africa as a knowledge society. We end the article with some comments regarding the road ahead.

The International Information & Library Review: Transforming... Britz, J.J., Lor, P.J., Coetzee, I.M., and Bester, B.C. Africa as a knowledge society: A reality check. Using these four pillars as criteria we then analyze Africa as a knowledge society. We end the article with some comments regarding the road ahead.

CAT INIST
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Publisher's Record

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UpSpace (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

- 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 (UPSpace) on Wikipedia
International Harvesters

- ROAR [http://roar.eprints.org/](http://roar.eprints.org/)
- Open Archives Institute [http://www.openarchives.org](http://www.openarchives.org)
- DRIVER [http://www.driver-repository.eu/](http://www.driver-repository.eu/)
- Scopus & Scirus
Collaboration

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 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 in the Internet home pages of each of our research units which then links back to their communities in the CSR ResearchSpace (this is what we are calling our DSpace). This means their publications list will automatically be updated as we update ResearchSpace … 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 CSR 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.ResearchSpace.csir.co.za and let us know if you find any hiccups that we should fix before the formal launch.

Have fun,
Marte
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
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

- oScience: providing context, Hans Falk Hoffmann, CERN
- International data policy overview, Paul Uhlir Director, Office of International S&T Information Programs and Conferences
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Bibliography


