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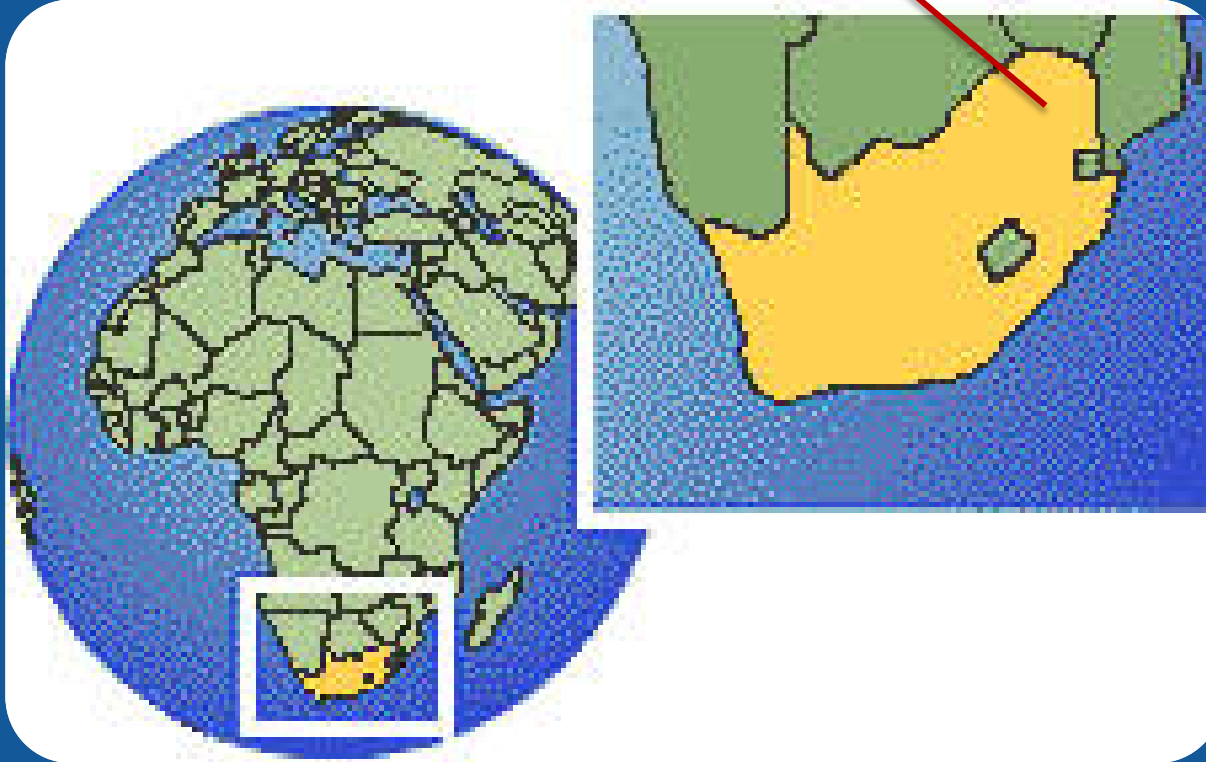
The UP story on OA policy development & advocacy:
the good, the bad & the ugly

Berlin 10 Open Access Conference, 6 November 2012,
Stellenbosch, South Africa



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Where is the University of Pretoria?



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Onmelers • Leading Minds • Dikgopolo Sa Dikholo

- Founded in 1908
- One of the leading & largest universities
- 9 faculties & Business School
- Culturally diverse students
- Three official languages in use:
Arikaans, English and Sepedi
- Offers 230 qualifications
- In 2011 - 1343 postgraduate programmes
- 62 500 Students - 45 000 are contact students
- 1281 Permanent staff members



University of Pretoria, South Africa



The good...



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Den Makere • Leading Minds • Dikgopolo '92 Dikholo!

2000 UPeTD repository launched

2003 Mandatory submission policy for ETDs

2006 UPSpace repository launched

2007 Open Scholarship programme formalized

2009 Mandatory submission policy for research papers



UP embraced Open Access!



Open Scholarship goal:
To change scholarship practice
@ UP
towards becoming
an Open Scholarship institution



Electronic Theses and Dissertations Search the UP Web

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NEWS

UPeTD's rating in the international Webometrics ranking of repositories is no. 67 worldwide in terms of content, size and visibility - the first in Africa. [Read more](#)

Congratulations to Clifford Gouws from the Department of Architecture! He is one of the 2012 NDLTD Innovative ETD award winners with his dissertation [Magazine Hill : a weathered continuum](#)

UPeTD celebrated [10 years of success](#)



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1. Theses/dissertations are available online – policy based



UPSpace Home

UPSpace

Welcome to the Institutional Repository of the University of Pretoria, an open access electronic archive collecting, preserving and distributing digital materials created by members of the University of Pretoria.

Communities in UPSpace

Select a community to browse its collections.

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- Economic & Management Sciences [1323]
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- Education Innovation [58]
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- Entrepreneurship In Information [1]
- Health Sciences [1341]
- Humanities [953]
- Law [710]
- Library Services [378]
- Mapungubwe Repository [66]
- Natural & Agricultural Sciences [2207]
- OpenUP [8287]
- Research and Innovation [1]
- South African National Veterinary Repository [483]
- Special Collections [1505]
- Support Services & Inter-Disciplinary Departments [1]
- Theology [2309]
- University of Pretoria Archives [411]
- UP E-Press [5]
- UP Executive Office [33]
- UPSpace [223]
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2. Research articles are available online – policy based



AOAJSA is a list of open access journals acknowledged by the South African Department of Higher Education and Training (DHET) and which qualify for university subsidy

- Open Access journals are funded by grants, subsidies or by publication fees which are paid by the author(s), or their research organizations or funders, at the time of publication
- Please visit DOAJ or the specific journal's web site for the possible fees paid by the author(s)
- Please visit the journal's web site for more detailed information and to find the journal's latest impact factor
- Read more about open access journals at http://en.wikipedia.org/wiki/Open_access_journal
- Please check DHET, IBSS and the 3 ISI lists additionally to this list
- The Department of Library Services has set up a PrePay Membership account with BioMed Central. Enquiries : openup@up.ac.za

A-B-C-D-E-F-G-H-I-J-K-L-M-N-O-P-Q-R-S-T-U-V-W-Y-Z

Title	ISSN	Publisher	Subject	Start	Index
Acta Academica New	0587-2405	SUNMedia Bloemfontein, South Africa	History of scholarship and learning. The humanities	2001	DHET
Acta Biologica Cracoviensia Series Botanica	0001-5296	Polish Academy of Sciences Publishing	plant anatomy botany morphology cytology genetics tissue culture biosystematics embryology physiology	2005	Science Citation Index Expanded
Acta Chimica Slovenica	1318-0207 1580-3155	Slovenian Chemical Society	chemistry	1998	Science Citation Index Expanded
Acta Chromatographica	1233-2356	University of Silesia	chemistry, chromatography	1996	Science Citation Index Expanded
Acta Cirurgica Brasileira	0102-8650 1678-2674	Sociedade Brasileira para o Desenvolvimento da Pesquisa em Cirurgia	health sciences	1997	Science Citation Index Expanded
Acta Clinica Croatica	0353-9466 1333-9451	Sestre milosrdnice University Hospital, Institute for Clinical Medical Research, Zagreb	biomedicine, medical practice	2000	Science Citation Index Expanded
Acta Crystallographica C	1000-0000			2008	Science Citation Index Expanded
Acta Endocrinologica (E			medicine, endocrinology	2005	Science Citation Index Expanded

<http://www.library.up.ac.za/aoajsa.htm>



3. Researchers publish in Open Access journals – with financial support

AUTHOR'S ADDENDUM TO PUBLICATION AGREEMENT

1. THIS ADDENDUM hereby modifies and supplements the attached Publication Agreement concerning the following Article:

_____ (manuscript title)

_____ (journal name)

2. The parties to the Publication Agreement as modified and supplemented by this Addendum are:

_____ (the Publisher)

_____ (corresponding author, Individually or, if more than more author, collectively, Author)

3. This Addendum and the Publication Agreement, taken together, allocate all rights under copyright with respect to all versions of the Article. The parties agree that wherever there is any conflict between this Addendum and the Publication Agreement, the provisions of this Addendum prevail and the Publication Agreement shall be construed accordingly.

4. Author's Retention of Rights. Notwithstanding any terms in the Publication Agreement to the contrary, AUTHOR and PUBLISHER agree that in addition to any rights under copyright retained by Author in the Publication Agreement, Author retains: (i) the rights to reproduce, to distribute, to publicly perform, and to publicly display the Article in any medium for non-commercial purposes; (ii) the right to prepare derivative works from the Article; and (iii) the right to authorize others to make any non-commercial use of the Article so

<http://www.library.up.ac.za/openup/docs/Addendum.pdf>

4. Researchers can manage their copyright



1st in
Africa!

1. To assist the University of Pretoria in providing open access to scholarly articles and conference papers resulting from research done at the University, and which are wholly or in part supported by public funding, staff and students are **required** to
 - submit peer-reviewed postprints* of their articles and published conference papers to UPSpace, the University's institutional repository (<https://www.up.ac.za/dspace/>), **AND**
 - give the University permission to a) make the content freely available and b) to take necessary steps to preserve files in perpetuity.



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5. Policy statement : open access to research papers



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Staff



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- Capture new research output
- Check copyright policies
- Negotiate with publishers
- Obtain the correct version
- Submit items
- Manage the embargoes
- Follow: High tech-high touch approach

6. Implementation team



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2010
University of Pretoria
Research Report

Faculty of Health Sciences
School of Medicine
Department of Anaesthesiology
Research articles in refereed specialist journals

Research 2010

Journal Title

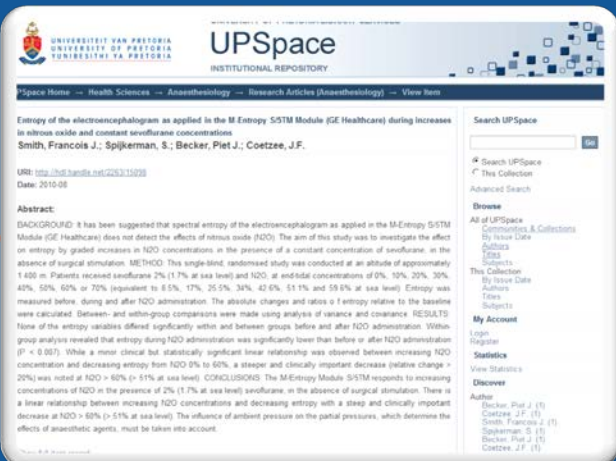
1. [Smith, Francois J., Spijkerman, S., Becker, Piet J., Coetzee, J.F. \(2012\). Head use and body mass in patients with hydrocephalus. *Journal of Neurology, Neurosurgery, and Psychiatry*, 83 \(11\), 1049-1054.](#)

2. [Smith, Francois J., Spijkerman, S., Coetzee, J.F. \(2010\). Entropy of the electroencephalogram as applied in the M-Entropy S/STM Module \(GE Healthcare\) during increases in nitrous oxide and constant sevoflurane concentrations. *Southern African Journal of Anaesthesia and Analgesia*, 16 \(1\), 14-19.](#)

3. [Coetzee, J.F. \(2010\). Keeping the pulse. *Southern African Journal of Anaesthesia and Analgesia*, 16 \(1\), 14-19.](#)

4. [Smith, Francois J. \(2010\). Mean Field Entropy after administration of propofol to neurolept analgesia. *Southern African Journal of Anaesthesia and Analgesia*, 16 \(1\), 14-19.](#)

Back To



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Space Home — Health Sciences — Anaesthesiology — Research Articles (Anaesthesiology) — View Item

Entropy of the electroencephalogram as applied in the M-Entropy S/STM Module (GE Healthcare) during increases in nitrous oxide and constant sevoflurane concentrations
Smith, Francois J.; Spijkerman, S.; Becker, Piet J.; Coetzee, J.F.

URI: <http://hdl.handle.net/2013/11978>
Date: 2010-08

Abstract:
BACKGROUND: It has been suggested that spectral entropy of the electroencephalogram as applied in the M-Entropy S/STM Module (GE Healthcare) does not detect the effects of nitrous oxide (N₂O). The aim of this study was to investigate the effect on entropy by graded increases in N₂O concentrations in the presence of a constant concentration of sevoflurane, in the absence of surgical stimulation. METHOD: This single-blind, randomised study was conducted at an altitude of approximately 1 400 m. Patients received sevoflurane 2% (1.7% at sea level) and N₂O at end-tidal concentrations of 0%, 10%, 20%, 30%, 40%, 50%, 60% or 70% (equivalent to 8.5%, 17%, 25.5%, 34%, 42.6%, 51.1% and 59.6% at sea level). Entropy was measured before, during and after N₂O administration. The absolute changes and ratios of entropy relative to the baseline were calculated. Between- and within-group comparisons were made using analysis of variance and covariance. RESULTS: None of the entropy variables differed significantly within and between groups before and after N₂O administration. Within-group analysis revealed that entropy during N₂O administration was significantly lower than before or after N₂O administration (P < 0.007). While a linear relationship between increasing N₂O concentration and decreasing entropy from N₂O 0% to 60%, a steeper and clinically important decrease (relative change = 20%) was noted at N₂O > 60% (> 51% at sea level). CONCLUSIONS: The M-Entropy Module S/STM responds to increasing concentrations of N₂O in the presence of 2% (1.7% at sea level) sevoflurane, in the absence of surgical stimulation. There is a linear relationship between increasing N₂O concentrations and decreasing entropy with a steep and clinically important decrease at N₂O > 60% (> 51% at sea level). The influence of ambient pressure on the partial pressures, which determine the effects of anaesthetic agents, must be taken into account.

Author:
Becker, Piet J. (1)
Coetzee, J.F. (1)
Smith, Francois J. (1)
Spijkerman, S. (1)
Becker, Piet J. (1)
Coetzee, J.F. (1)



“Of all SA universities, Pretoria delivers the highest number of research articles, over 1600 2011 publications, of which 130, not entered by departments, were traced by the Open Scholarship Office in 2012. Without their invaluable assistance in locating these, our task would be measurably more difficult.” - UP Research Office



Original Research: Entropy of the electroencephalogram

Entropy of the electroencephalogram as applied in the M-Entropy S/STM Module (GE Healthcare) during increases in nitrous oxide and constant sevoflurane concentrations

Smith, Francois J., Spijkerman, S., Becker, Piet J., Coetzee, J.F. (2010). Entropy of the electroencephalogram as applied in the M-Entropy S/STM Module (GE Healthcare) during increases in nitrous oxide and constant sevoflurane concentrations. *Southern African Journal of Anaesthesia and Analgesia*, 16 (1), 14-19.

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*Department of Anaesthesiology and Critical Care, Faculty of Health Sciences, Stellenbosch University, South Africa
Correspondence to: Prof Francois Smith, e-mail: f.smith@up.ac.za

Keywords: monitoring, depth of anaesthesia, monitoring, electroencephalography, monitoring, entropy, anaesthesia, nitrous oxide, sevoflurane, anaesthesia, gas, nitrous oxide

Abstract
Background: It has been suggested that spectral entropy of the electroencephalogram as applied in the M-Entropy S/STM Module (GE Healthcare) does not detect the effects of nitrous oxide (N₂O). The aim of this study was to investigate the effect on entropy by graded increases in N₂O concentrations in the presence of a constant concentration of sevoflurane, in the absence of surgical stimulation. Method: This single-blind, randomised study was conducted at an altitude of approximately 1 400 m. Patients received sevoflurane 2% (1.7% at sea level) and N₂O at end-tidal concentrations of 0%, 10%, 20%, 30%, 40%, 50%, 60% or 70% (equivalent to 8.5%, 17%, 25.5%, 34%, 42.6%, 51.1% and 59.6% at sea level). Entropy was measured before, during and after N₂O administration. The absolute changes and ratios of entropy relative to the baseline were calculated. Between- and within-group comparisons were made using analysis of variance and covariance. Results: None of the entropy variables differed significantly within and between groups before and after N₂O administration. Within-group analysis revealed that entropy during N₂O administration was significantly lower than before or after N₂O administration (P < 0.007). While a linear relationship between increasing N₂O concentration and decreasing entropy from N₂O 0% to 60%, a steeper and clinically important decrease (relative change = 20%) was noted at N₂O > 60% (> 51% at sea level). Conclusion: The M-Entropy Module S/STM responds to increasing concentrations of N₂O in the presence of 2% (1.7% at sea level) sevoflurane, in the absence of surgical stimulation. There is a linear relationship between increasing N₂O concentrations and decreasing entropy with a steep and clinically important decrease at N₂O > 60% (> 51% at sea level). The influence of ambient pressure on the partial pressures, which determine the effects of anaesthetic agents, must be taken into account.

© Peer review published 2010-10-01, Accepted 2010-08-01
S Afr J Anaesth Analg 2010; 16(1): 14-19

Introduction
Spectral entropy of the electroencephalogram (SE_Q) as applied by the M-Entropy S/STM Module (GE Healthcare, Instrumentarium, Helsinki, Finland) is one of several electrophysiologic monitors that have been promoted to assess the level of consciousness during sedation and anaesthesia.¹ Anaesthetic drugs exert certain group-specific effects on the EEG, the clarity of which may influence the ability of various EEG-based monitors to evaluate consciousness, particularly when drugs with differing EEG effects are administered concurrently.
The EEG changes that are associated with nitrous oxide (N₂O) include decreases in frequency and amplitude in the alpha band and increases in the high beta band (> 30 Hz). These changes are accompanied by analgesic and depressed consciousness.² Nitrous oxide-analgesia (N₂O) acts

7. Campus partners

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Jonathan Jansen Collection (197 items)

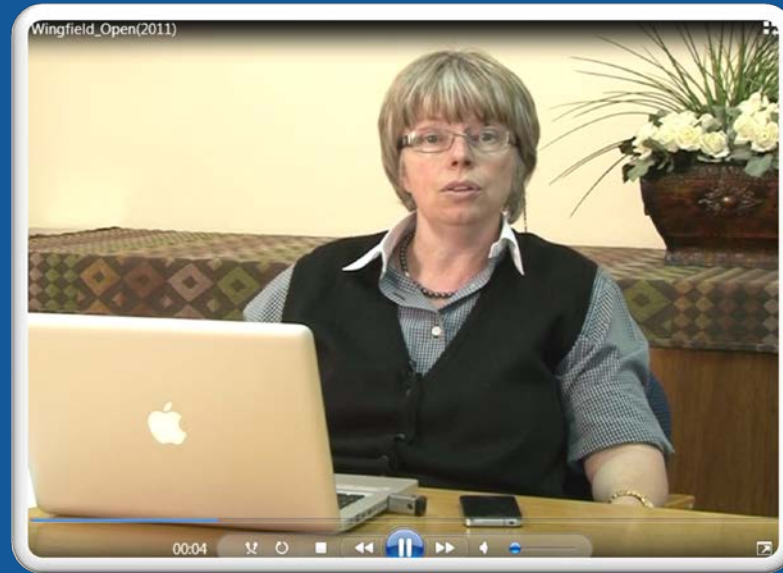
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8. Campus champions



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9. Library staff involvement



10. Ongoing advocacy



“I think this service is **wonderful**, and really hope that it can be continued. Without it, it would be very difficult to publish in good quality open access journals.” Dr Anne-Marie Bergh

“It's great to see initiative for **making research more accessible.**” Theoni Photopoulou, University of St Andrews

“Thank you very much for this **interesting information!** I was not aware of this new feature.” Gudrun Ditrach-Schroder



“If it was not for the **support of your funding** I am not sure that we would find the financing to publish on open access. Thanks for your support.” Prof John Soley



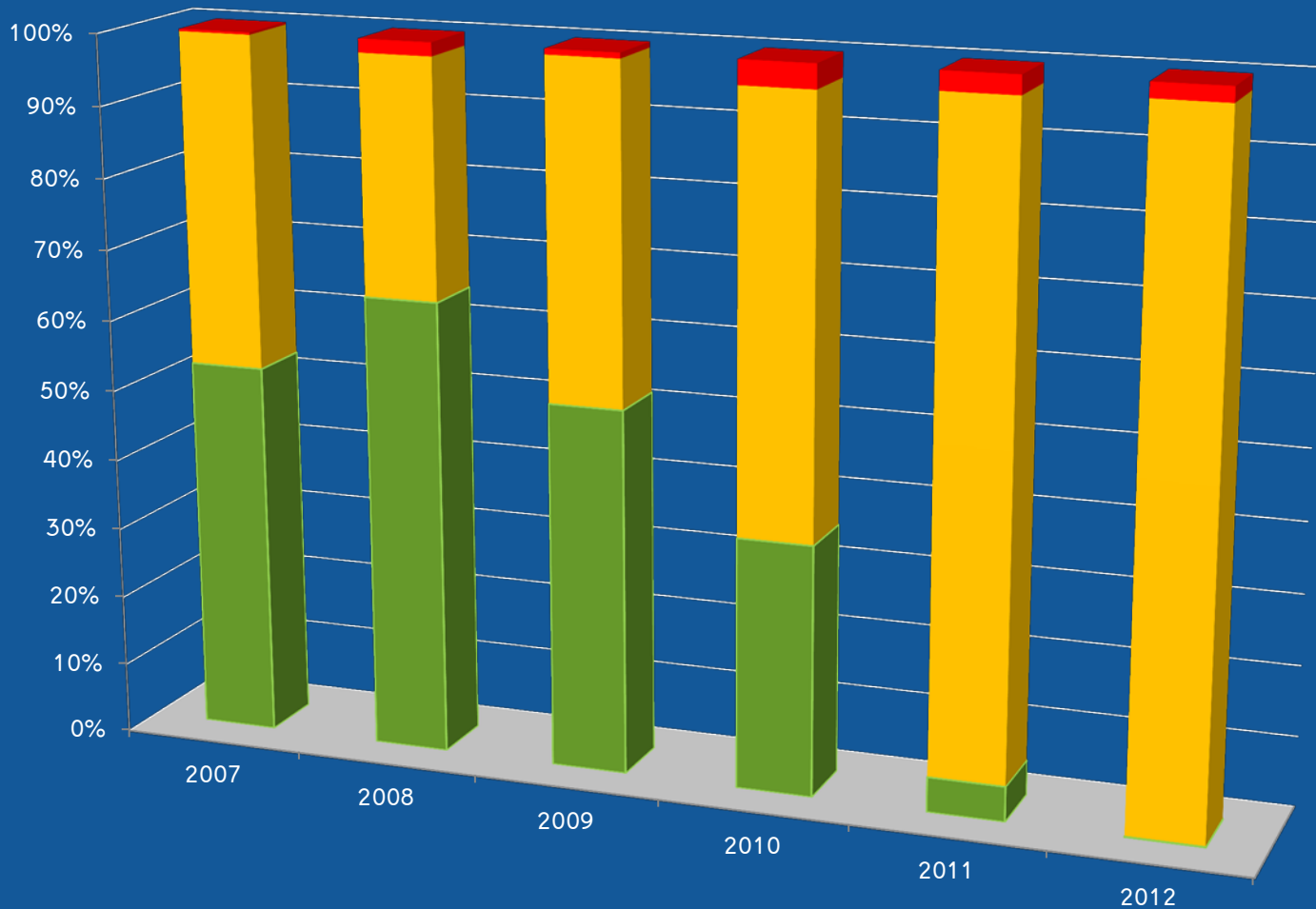


The bad...





1. Changes in UP Executive



- Researchers
- Open Scholarship
- Librarians

2. Self-archiving behaviour of researchers

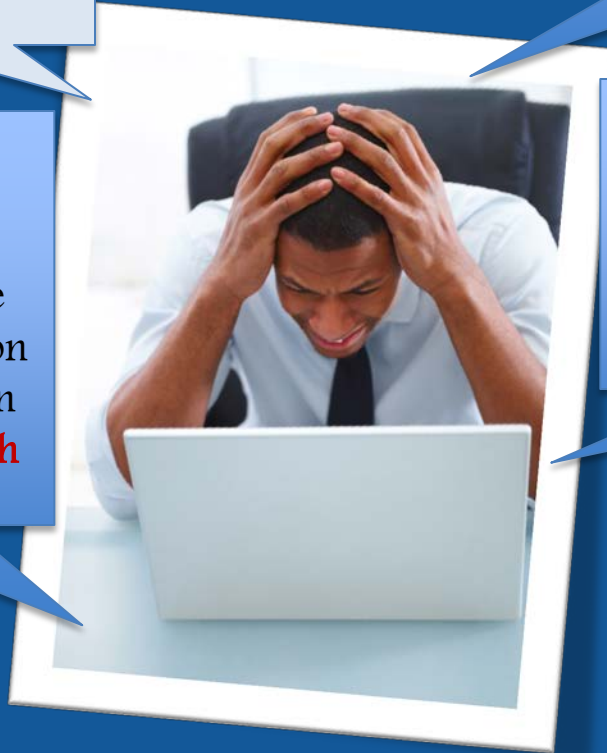
Post-print woes

"I'm sorry I can't **find** the version you want."

*"The disk where this last review manuscript was saved **crashed**."*

"I do not think that it is appropriate practice to make such "postprint" versions available for free access as the journal version is the only accepted one. In any case **I do not have such** a version of the paper."

*"I am afraid I simply **do not keep** anything once the paper is accepted - with some 200 papers I have neither the space nor the will."*





The ugly...



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“Most lecturers **dislike doing more work** than our already enormous workload. I made my points at the original UPSpace meetings that the idea was poorly thought out and poorly implemented, with no real consultation with the academics. **I see no benefits** from having my work in yet another repository, especially when it is unedited and unfinished.”

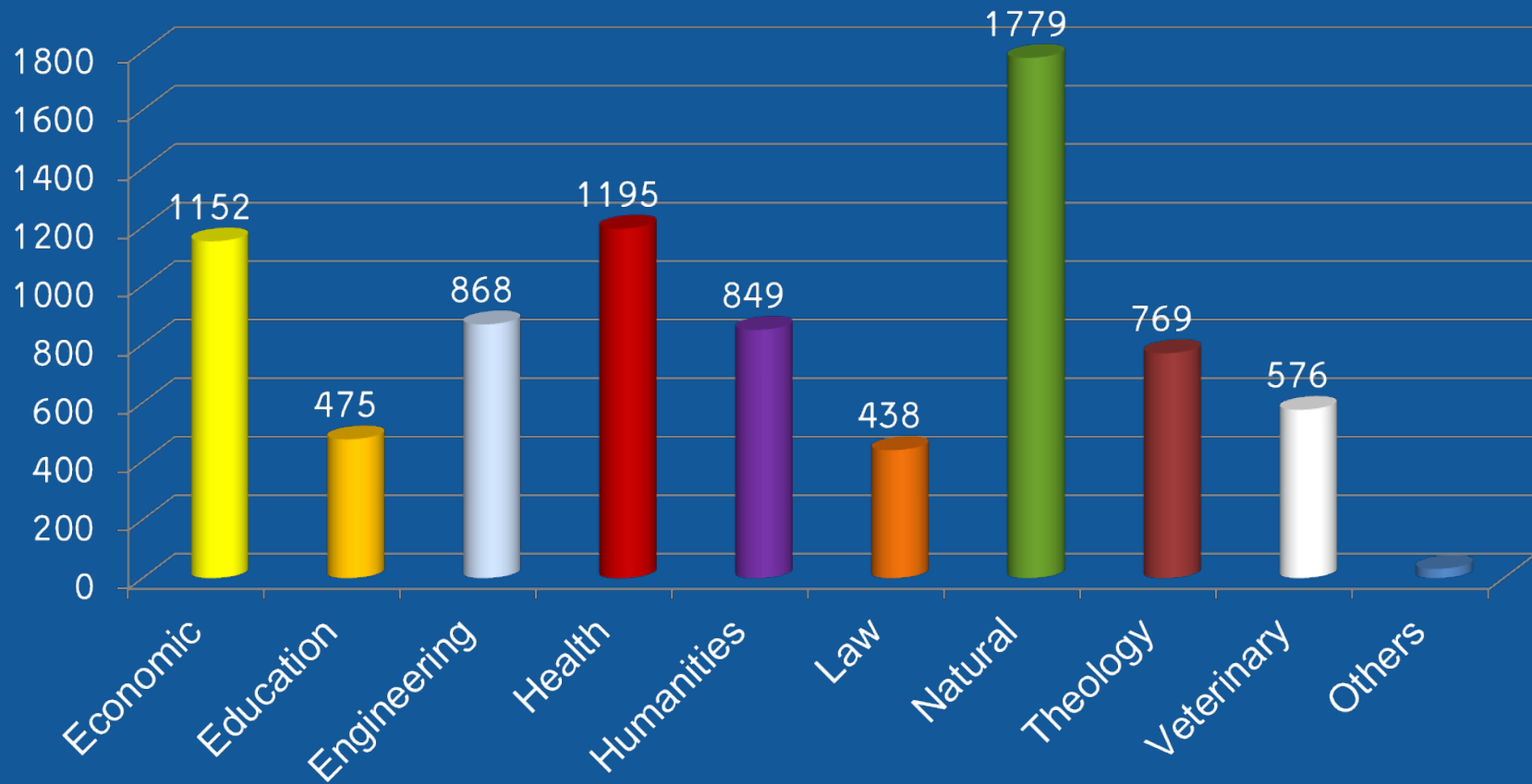
“Surely keeping such an article is totally redundant when you have access to the finished paper - what ever could be the purpose of keeping a pre-publication format when **the published is freely available?**”



“**Why don't you buy** the finished versions from the magazines instead of **pestering** us?”

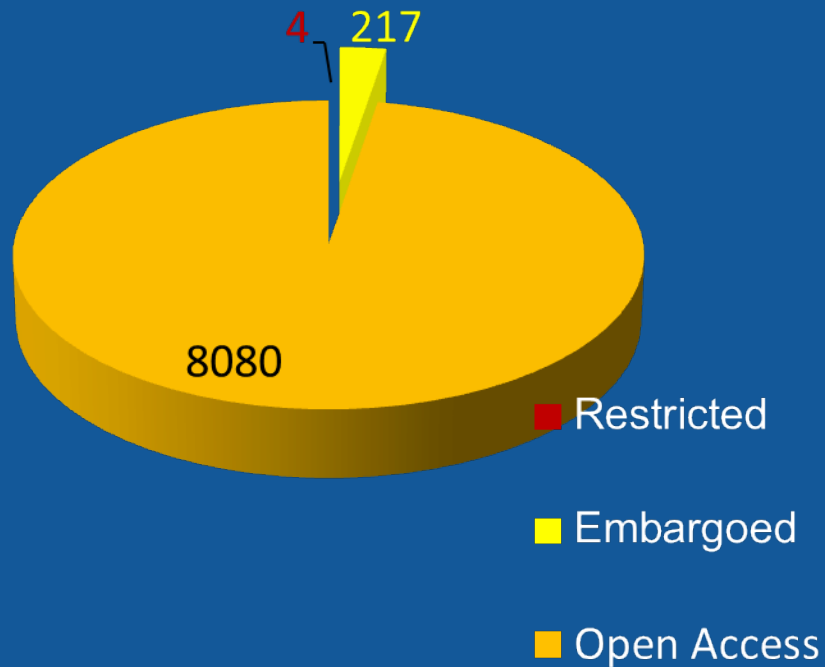


Articles per faculty

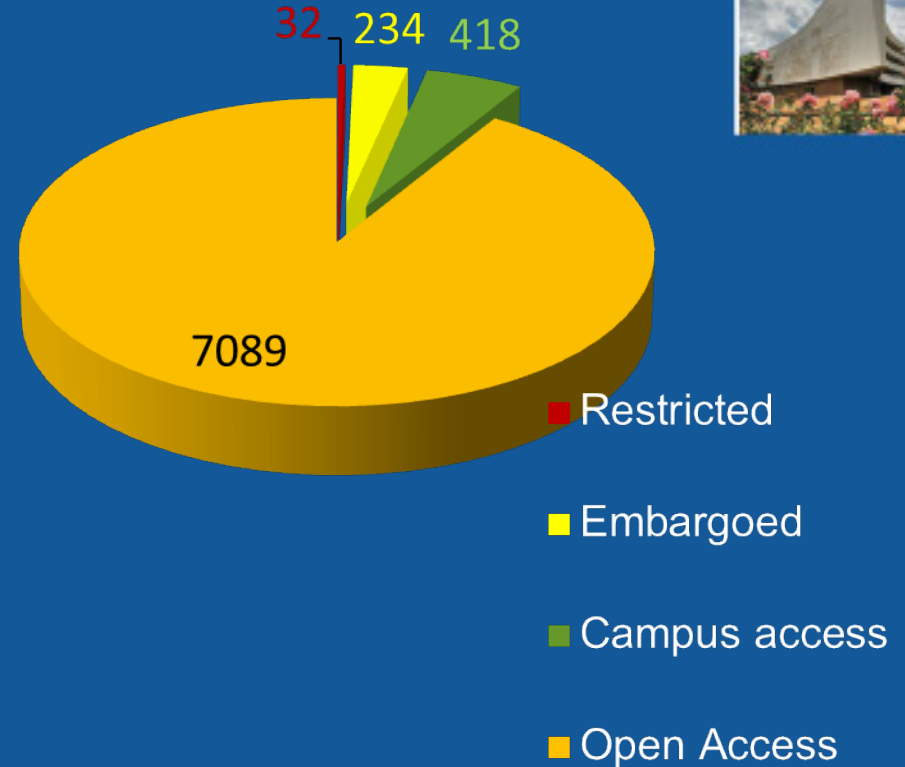


On a positive note...openUP totals 8301!

Access to research articles



Access to ETDs



Accessibility of UP research outputs

Estimating potential output and capacity utilisation for the South African economy 568

Total Visits Per Month

	May 2012	June 2012	July 2012	August 2012	September 2012	October 2012	November 2012
Estimating potential output and capacity utilisation for the South African economy	3	2	9	10	509	31	0

File Visits

Views

DuToit_Estimating(2003).pdf 277

Top country views

Views

South Africa	499
United States of America	36
China	11
United Kingdom	3
Iceland	3
Ethiopia	2
France	2
Netherlands	2
Zimbabwe	2
Unknown Country	1

Top cities views

Views

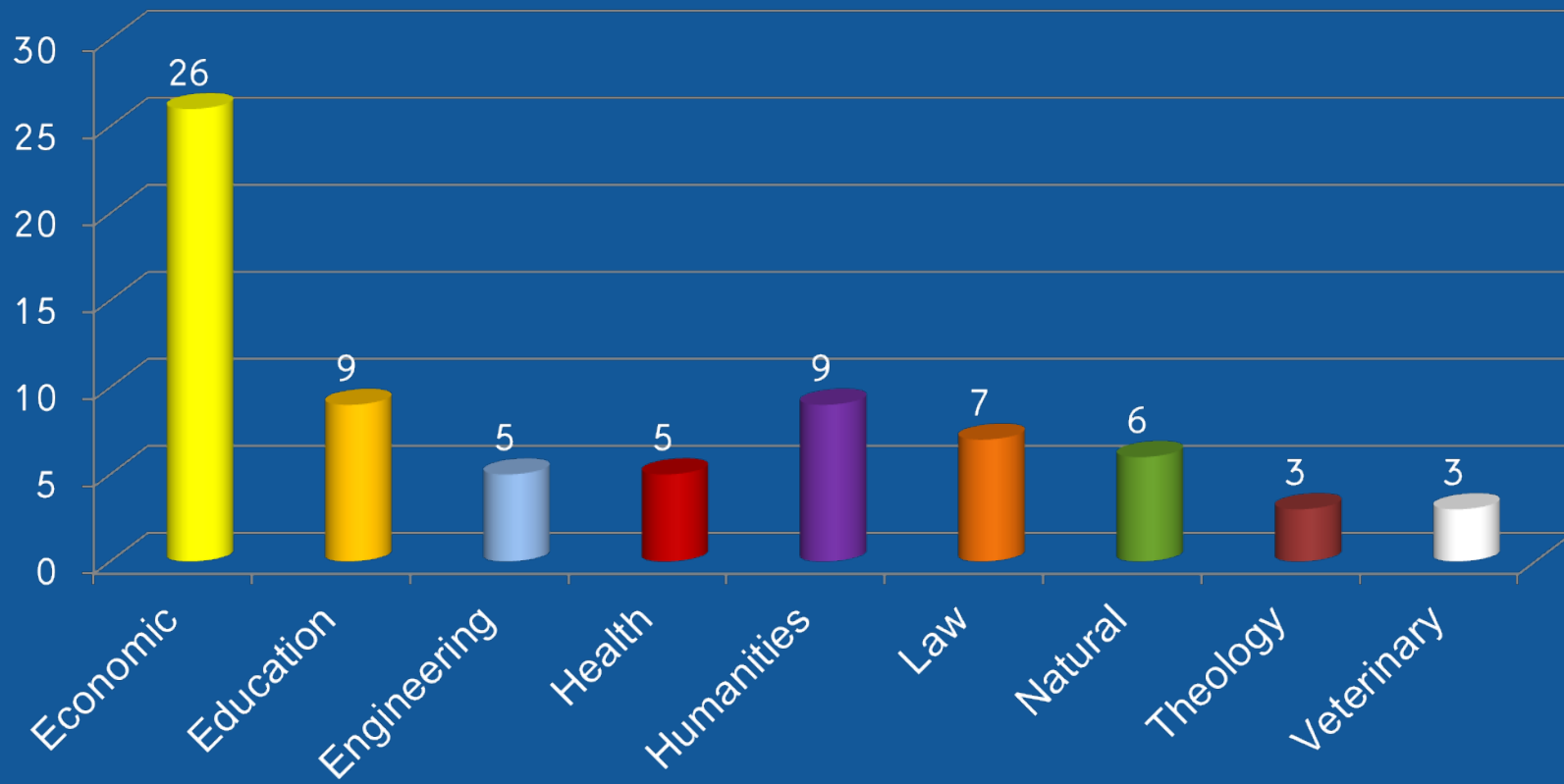
Cape Town	383
Johannesburg	22
Pretoria	16
Durban	6
Langebaan	6
Roodepoort	5
Boksburg	4
Urbanville	4



On a positive note...let the statistics do the talking!



Research articles viewed more than 40 times October 2012



Research articles are highly viewed!



“It always seems impossible until it’s done”
- *Nelson Mandela*

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