

DAEDALUS: Developing an Agenda for Institutional ePrints Archives



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William J Nixon, Service Development
DAEDALUS, University of Glasgow

LIR HEAnet Annual Seminar
Trinity College Dublin, 26th March 2004



A revolution must be wrought in the ways in which we make, store, and consult the record of accomplishment.... It is not just a problem for the libraries, although that is important. Rather, the problem is how creative men think, and what can be done to help them think. It is a problem of how the great mass of material shall be handled so that the individual can draw from it what he needs-instantly, correctly, and with **utter freedom**. Compact storage of desired material and swift selective access to it are the two basic elements of the problem.

Vannevar Bush,
Science Is Not Enough, 1967



What's in a name? That which we call a rose
By any other name would smell as sweet.

Romeo and Juliet. Act ii. Sc. 2.



Roses and Repositories

- Institutional Archives
- Institutional Eprints Archives
Institutional Repositories
- IBERs
 - Institutionally Based Eprints Repositories (SHERPA)
- Institutional Repository Services



Defining ePrints

- Electronic versions of research articles
 - pre-prints (pre-referred papers)
 - post-prints (post-refereed papers)
- May also include:
 - Conference papers
 - Book chapters
- Critical element is quality control

Convergence of Drivers

- Global journal problem
 - Rising costs of journal prices
- Open Archives Initiative
 - OAI-PMH
- Open Access movement
 - Budapest Open Access Initiative
 - Berlin Declaration
- Availability of repository software
 - DSpace
 - EPrints et al

Institutional Repositories

Institutional repositories are digital collections that capture and preserve the intellectual output of university communities. These could include:

EPrints

- Published papers
- Pre-prints
- Conference papers

Other content

- Theses
- Admin Documents
- Images

IRs are still in their infancy but maturing rapidly

Why institutional repositories?

- The “Third Wave” of freeing research
 - 1) Papers on web sites
 - 2) Subject based repositories e.g. arXiv
- Institutions provide the infrastructure to:
 - Build
 - Populate
 - Maintain
 - Preserve
- IRs are Complementary and cross-searchable with subject based repositories

Features

- Institutionally defined
- Contain scholarly content
- Cumulative and perpetual
- Open and interoperable - Reciprocity

Benefits

- Maximise the visibility and impact of research for individual researchers
- Maximise the access to research at other institutions
- Provide an opportunity to reduce annual serials expenditures



Communities and Agendas

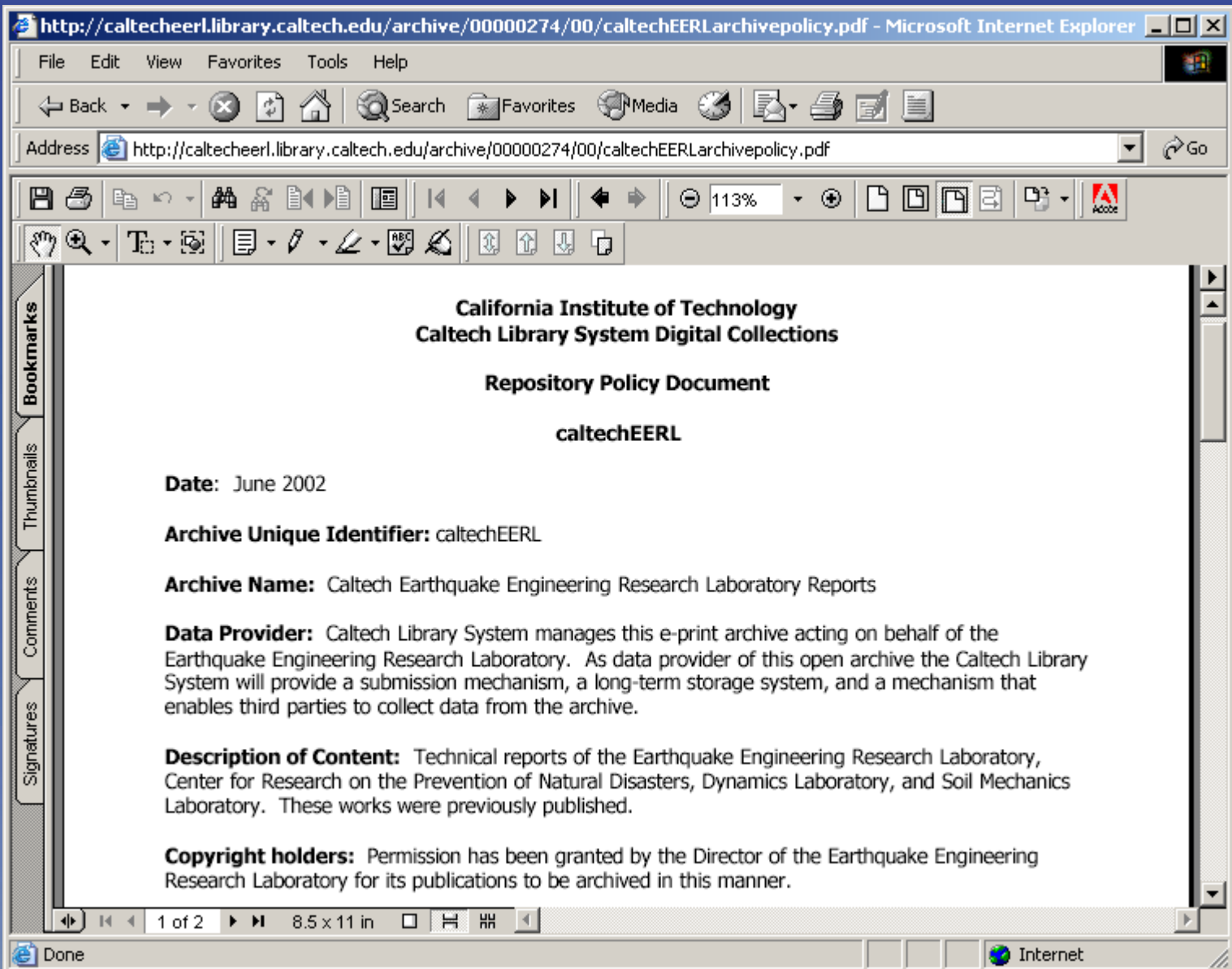
- Faculty
 - Increase visibility of their own research
 - Increase access to others research
- Library
 - Challenge the serials crisis
 - Provide for digital preservation
- Administrators
 - Raise the profile of the institution
 - Manage University's scholarly output

Developing an Agenda

- Organisational
 - Why have a repository? What will its role be?
What will be its identity? Who will use it?
- Technology requirements
 - What software? Which platform?
- Legal and Policy
 - What IPR issues should be considered? What will the content licence be like?
- Costing models
 - How will it be funded? How much will it cost?

Developing Policies

- Institutional Policy
 - Will it encourage self-archiving?
- Collection Policy
 - What will be accepted?
 - Who will ensure copyright clearance?
- Submission Policy
 - Who can submit content?
 - Will there be editorial control?
- Metadata Policy
 - What metadata may be harvested?



Start with Early Adopters

- Identify a group of interested departments
 - Through Subject Librarians
 - Faculty interest from presentations
 - Seek volunteers
- Selection Criteria
 - A group or department friendly to your mission
 - Diversity across discipline areas
 - Diversity of content types or formats
- Provide feedback for the development of your service

Some Cautions

- Should not used as a means of controlling scholarly output
- Should not be distracted with policy baggage
- Should ensure that there is not a lack of institutional commitment beyond the initial implementation

Which Road(s)?

- Self-archiving
 - Authors deposit papers
- Mediated
 - Centralised/devolved deposit service on behalf of the authors
- Mixture of both
 - Different workflow for different content?
- Other Issues
 - Copyright
 - Metadata enhancement
 - Administration



IRs: A Global Movement

- UK: FAIR Programme
- Netherlands: DARE
- Australia: ARROW
- United States: DSpace [MIT]; Caltech CODA; California Digital Library; Carnegie Mellon Funded projects.
- Ireland: NUI Maynooth, DCU

UK: JISC FAIR Programme

- Focus on Access to Institutional Resources
- £2 million investment
- August 2002 – October 2005
- 14 projects
- FAIR Advisory Board (FAB!)
 - Community representation
- http://www.jisc.ac.uk/programme_fair.html



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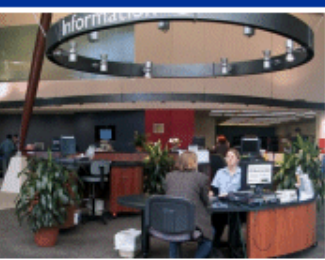
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- Founded in 1451
- 2nd oldest University in Scotland
- 4th oldest in Britain
- 17,000 full-time students studying in ten faculties.
- Over 5,500 staff



The Glasgow Experience

- ePrints pilot service
 - November 2001
- Create Change event
 - April 2002
- DAEDALUS Project
 - August 2002 – July 2005



DAEDALUS

- Funded until June 2005
- Partner with the CURL SHERPA Project
- Core strategic aim for Glasgow University Library
- Two strands
 - Advocacy
 - Service Development



Issues we are exploring

- Cultural
 - Encouraging use: deposit and access
- Organisational
 - Copyright and IPR
- Technical
 - Standards and formats



Advocacy Remit

- to create an Open Access culture
- to gather content for the range of Open Archives services
- to provide advice on policy implications, guidelines and processes of the services
- to formulate an exit strategy that ensures a full and fully used service

From Advocacy to Population

- Range of strategies necessary – no single solution to getting content
- Different strategies for different content
- Different short term and long term strategies
- Doing things 'by the book' – academic staff buy-in and a sustainable service

A Mediated Model

- Copyright clearance
 - Contacting publishers
- File conversion
 - Converting content to PDF
- Deposit of papers
 - Importing records
- Enhancement of metadata
 - Assigning LC subject headings

Service Development Remit

- To provide the software infrastructure for:
 - Published papers / ePrints
 - Pre-prints, grey literature, technical reports, working papers
 - Doctoral theses
 - Research Finding Aids
 - Administrative Documents
 - Search service
- To report to JISC and the wider community about our experiences

Hardware

We are using both EPrints and DSpace and they run on the same server

Sun Fire

- Solaris OS
- 4 Gbytes of Memory
- 12 x 36 GB Disks



Why EPrints and DSpace?

- Opportunity to work with them both
- Hardware and skill sets available
- Specific need for a publications database which EPrints.org fulfilled
- Experience with EPrints.org software
- Workflow opportunities presented by DSpace suited a more devolved model
- Digital preservation dimension



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Part of DAEDALUS - Freeing Research at the University of Glasgow



Create Change - Challenging the Crisis in Scholarly Communication

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Laurier, Eric and Whyte, Angus (2001) 'I Saw You': Searching for Lost Love via Practices of Reading, Writing and Responding'. *Sociological Research Online* 6(1).

McConnachie, Alex and Hunt, Kate and Emslie, Carol and Hart, Carole and Watt, Graham (2001) "Unwarranted survivals" and "anomalous deaths" from coronary heart disease: prospective survey of general population. *BMJ* 323:1487-1491.

Mitchell, Elizabeth and Sullivan, Frank (2001) A descriptive feast but an evaluative famine: systematic review of published articles on primary care computing during 1980-97. *BMJ* 322:279-282.

Harris, Jeff and Hutchison, Mark T. and Hursthouse, Mike and Light, Mark and Harte, Ben (1997) A new tetragonal silicate mineral occurring as inclusions in lower-mantle diamonds. *Nature* 387(6632):486-488.

Lees, Kennedy R. and Bath, Philip M. W. and Naylor, A. Ross (2000) ABC of arterial and venous disease. Secondary prevention of transient ischaemic attack and stroke. *BMJ* 320:991-994.

Darrien, Jennifer H. and Herd, Katrina and Starling, Lisa-Jo and Rosenberg, Jay R. and Morrison, James D. (2001) An analysis of the dependence of saccadic latency on target position and target characteristics in human subjects. *BMC Neuroscience* 2(13).

Laurier, Eric and Whyte, Angus and Buckner, Kathy (2001) An ethnography of a neighbourhood café: informality, table arrangements and background noise. *Journal of Mundane Behaviour* 2(2):195-232.

Bell, B.R. and Jolley, D.W. (1997) Application of palynological data to the chronology of the Palaeogene lava fields of the British Province: implications for magmatic stratigraphy. *Journal of the Geological Society* 154(4):701-708.



Materials science: Breaking the neural code

Curtis, Adam (2002) Materials science: Breaking the neural code. *Nature* 416(6878):274-275.

Full text available as:

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Abstract

The precise information that is conveyed between nerve cells remains unknown. Networks of nerve cells grown on silicon chips, using a polyester as a guide, may bring us closer to translating the elusive neural language.

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The Department is internationally recognised for its research which is organised around 6 major groups, each of which run its own weekly seminar series. There are currently 35 academic staff, 70 research students and 37 research assistants and fellows in the Department. We currently host 24 EPSRC-funded research projects, 6 EC-funded projects, 7 industrially funded projects, and several research fellowships. The current grants and fellowships total more than £6M. The Department was rated 5 in the 2001 RAE.

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| 26-Mar-2003 | Bounded polymorphism in session types | <i>Gay, Simon J.; Hole, Malcolm</i> |
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| 11-Jun-2003 | Dynamics and probabilistic text entry | <i>Williamson, John; Murray-Smith, Roderick</i> |
| 2002 | Feature Interaction detection by pairwise analysis of LTL properties | <i>Calder, Muffy; Miller, Alice</i> |
| 2002 | Hierarchical Gaussian process mixtures for regression | <i>Shi, Jian Qing; Murray-Smith, Roderick; Titterton, D. M.</i> |
| Jun-2003 | Learning a Gaussian process model with uncertain inputs | <i>Girard, Agathe; Murray-Smith, Roderick</i> |
| 6-Feb-2004 | Managing a Reconfigurable Processor in a General Purpose Workstation Environment | <i>Dales, Michael Winston</i> |
| Jun-1998 | Minimaximal and maximimal optimisation problems : a partial order-based approach | <i>Manlove, David Francis</i> |
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Title: Feature Interaction detection by pairwise analysis of LTL properties

Authors: Calder, Muffy
Miller, Alice

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Abstract: A Promela model and a set of temporal properties are developed for a basic call service with a number of features. The properties are expressed in the logic of LTL.

Interactions between features are detected by pairwise analysis of features and properties. The analysis quickly results in both state-space and property case explosion. To overcome this state-spaces are minimised, model checking results generalised through symmetry and bisimulation, and analysis performed automatically using scripts. The result is more extensive feature interaction analysis than others in the field.

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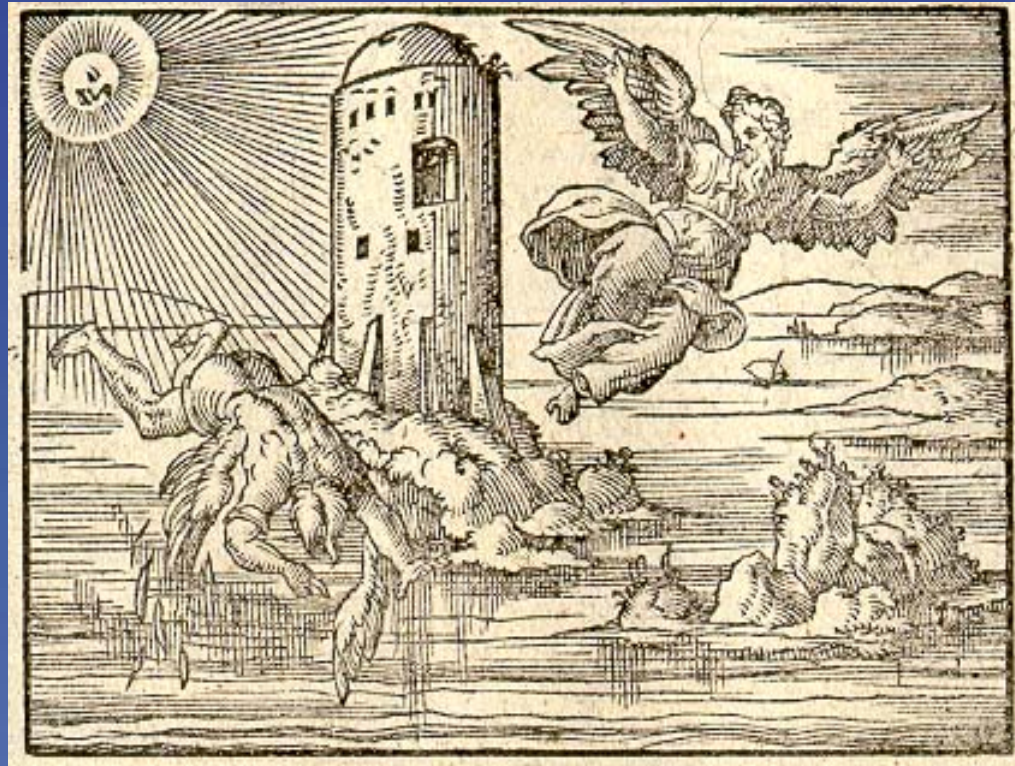
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- Align your repository with the needs of your communities
- Identify and work with early adopters
- Develop and shape appropriate policies
- Become the catalyst for “utter freedom” in your institution

Further Information

- SPARC Institutional Repository Guide
http://www.arl.org/sparc/IR/IR_Guide.html
- A Guide to Institutional Repository Software
<http://www.soros.org/openaccess/software/>
- “Institutional Repositories” Clifford Lynch,
ARL Bimonthly report 226
<http://www.arl.org/newsltr/226/ir.html>





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