TARDis: from project to embedded Institutional Repository

Association of Librarians and Information Professionals in the Social Sciences (ALISS)
British Library Conference Centre
26 Jul 2005

http://tardis.eprints.org
http://eprints.soton.ac.uk

Pauline Simpson
National Oceanography Centre, Southampton,
University of Southampton
Waterfront Campus
University of Southampton: a large multidisciplinary research led institution

NOC is one of the world’s leading centres for research and education in marine and earth sciences, for the development of marine technology and for the provision of large scale infrastructure and support for the marine research community.

Joint Venture between Natural Environment Research Council and the University of Southampton

Research-led multidisciplinary university:
20,000 students
5000 staff (3000 researchers)
The evolutionary story of the Southampton ‘keystroke policy’: the essence of embedding

- Open Access movement
- Institutional Repositories for Research
- Meeting in the middle
- Building an Institutional Repository based on institution/author needs
- The TARDis route map
- Result: an embedded service for all disciplines
In an ideal world of scholarly communication – all research is freely available

From embarkation to escalation.....

27 June - 11th anniversary of Stevan Harnad’s ‘Subversive Proposal’ leading to the open access vision for scholarly material

  [http://www.ecs.soton.ac.uk/~harnad/subvert.html](http://www.ecs.soton.ac.uk/~harnad/subvert.html)  
  [http://www.arl.org/scomm/subversive/toc.html](http://www.arl.org/scomm/subversive/toc.html)

The vocabulary has moved on but journals still becoming more and more expensive

Even the work of researchers in our own institution is still often unavailable to us .......and we also get emails from across the world when we haven’t yet got the full text.... but we’re making real progress
TARDis built on Southampton visions

- Harnad vision
- EPrints software had been created at School of Electronics and Computer Science (ECS), Southampton to enable the self archive vision. Now used by over 160 organisations around the world and spawned other IR software
- ECS use the software for the school publications database – now a repository with daily deposits (will be incorporated into e-Prints Soton)
- National Oceanography Centre was an early adopter of e-Prints culture
- Resulting TARDis Project is the collaboration of The University Library, School of Electronics and Computer Science, and Information Systems Services alongside academics as one institution
TARDiS (Targeting Academic Research for Deposit and Disclosure) - take off

HEFCE / JISC Focus on Access to Institutional Resources (FAIR) 2002 – 2005

- To support the disclosure of institutional assets:
  To support access to and sharing of institutional content within Higher Education and Further Education and to allow intelligence to be gathered about the technical, organisational and cultural challenges of these processes…

- £3 million on 14 projects

- Clusters:
  Museums and Images
  e-Prints & e-theses
  IPR
  Institutional portals

(New Call for Digital Repositories Proposals in Feb & Jun 2005)
TARDis Aims and Objectives

Investigating practical ways in which university research output can be made more freely available - more accessible, more rapidly – as a fundamental building block of e-Research

- **Creating an IR model**
  - Southampton University Research e-Prints (e-Prints Soton)
    - [http://eprints.soton.ac.uk](http://eprints.soton.ac.uk)

- **Refining Software**
  - feeding back into pioneering EPrints software, good citation and information management practice experimenting with best balance of assisted deposit and fast track (functionality, fields, interface)

- **Supporting ease of use for depositors of different backgrounds with a wide variety of research output**
  - essential ingredient, working closely with ‘schools’ (found that depends so much on publication culture and working practices)
  - identifying barriers
  - Investigating issues for a new concept
Working with disciplines and cultures for full representation

- Began with initial knowledge of some areas of a large organisation

- Advocacy/solutions most effective when you know the background and tailor to suit

- Key ingredient - exploration of web sites and discussions
## Sampling of faculty websites – assessing current practice, 2003

<table>
<thead>
<tr>
<th>Department</th>
<th>Total number of publications listed on Web</th>
<th>Full text on Web</th>
<th>Percentage of Publications with full text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Law, Arts and Social Sciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Archaeology</td>
<td>252</td>
<td>2</td>
<td>1%</td>
</tr>
<tr>
<td>English</td>
<td>243</td>
<td>3</td>
<td>1%</td>
</tr>
<tr>
<td>Modern Languages</td>
<td>160</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Music</td>
<td>280</td>
<td>5</td>
<td>2%</td>
</tr>
<tr>
<td>Politics</td>
<td>138</td>
<td>6</td>
<td>4%</td>
</tr>
<tr>
<td>Economics</td>
<td>357</td>
<td>89</td>
<td>25%</td>
</tr>
<tr>
<td>Maths Education</td>
<td>170</td>
<td>34</td>
<td>20%</td>
</tr>
<tr>
<td>Faculty of Medicine, Health and Life Sciences</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>796</td>
<td>24</td>
<td>3%</td>
</tr>
<tr>
<td>Medicine</td>
<td>1603</td>
<td>247</td>
<td>15%</td>
</tr>
<tr>
<td>Health Professions and Rehabilitation Sciences</td>
<td>332</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Nursing and Midwifery</td>
<td>439</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Faculty of Engineering, Science and Mathematics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>1128</td>
<td>111</td>
<td>10%</td>
</tr>
<tr>
<td>Electronics and Computer Science</td>
<td>7008</td>
<td>866</td>
<td>12%</td>
</tr>
<tr>
<td>Mathematical Studies</td>
<td>849</td>
<td>310</td>
<td>37%</td>
</tr>
<tr>
<td>Ocean Circulation and Climate Group, SOES</td>
<td>286</td>
<td>9</td>
<td>3%</td>
</tr>
<tr>
<td>James Rennell Division, SOC</td>
<td>792</td>
<td>68</td>
<td>9%</td>
</tr>
</tbody>
</table>
University central recording of research

Central recording mechanism via Corporate and Marketing Service – MS Word lists “the Research Report provides a comprehensive list of publications by University staff”

Progressed to pdfs - 1998 to 2002 on the web

Need an easier, more proactive way with full text potential
Our perception of the benefits to University, Schools and Researchers

- University profile
- School and discipline visibility
- Researcher profile
- Full text content freely accessible
  - link to learning and teaching
- Increased citations

- Secure storage of publications
  - including also theses and dissertations, technical reports
- Links to projects and web pages
- Research reporting
- Interdisciplinary research

Articles freely available online are more highly cited. For greater impact and faster scientific progress, authors and publishers should aim to make research easy to access. Nature, Volume 411, Number 6837, p. 521, 2001 Steve Lawrence

“Online or Invisible?”
e-Prints Soton evolution

- Original intent to provide secure storage for the full text of Southampton research output (e-Print Archive including post refereed pre published versions of papers deposited by researchers)

- Feedback: maximum benefit if the exercise also assisted researchers with time consuming research reporting tasks: Research Assessment (RAE), University Research Report, web pages, research proposals, CVs etc

- Evolved to ‘hybrid’ publications database for all research output with full text where available
e-Prints Soton evolution: aiming for full moon at midnight -
the TARDis research repository route map
Achieving a slower but more sustainable model – the TARDis route to embedding

• To achieve the original vision we are moving around the clock face
  • Will be central to research recording and visibility for all disciplines
  • Working to integrate as well as possible into the research recording workflow
  • Initial support included for legacy import depending on availability of previous records
  • Collaborating with academics to provide tailored valued services for different disciplines (needing extra functionality)

• **Goal**: author (or close academic group) self deposit (plus some assisted central support where needed) for new records with full text deposit where practicable

• Aided by a fast moving shared international movement

*All rising to great place is by a winding stair*
Francis Bacon
Open access & IRs – Then (2002) and Now (2005)

- Open Access little known
  - High level support
  - Open access publishing
  - Open access repositories
- Authors non acceptance
  - Surveys
- Copyright transfer
  - License to Publish
- Publishers
  - Changing policies
  - New publishing models
- Software, few options
  - Multiple, open source
- Funders no support
  - Mandate deposit
External climate e.g. Copyright issues changing fast

Common e-Print deposit:
Postprint = Post refereed pre-journal version

We provide link to published version for joined up picture

Publisher copyright policies & self-archiving

Statistics for the 111 publishers on this list

<table>
<thead>
<tr>
<th>ROMEO colour</th>
<th>Archiving policy</th>
<th>Publishers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>green</td>
<td>can archive pre-print and post-print</td>
<td>52</td>
<td>47</td>
</tr>
<tr>
<td>blue</td>
<td>can archive post-print (ie final draft post-referee)</td>
<td>21</td>
<td>19</td>
</tr>
<tr>
<td>yellow</td>
<td>can archive pre-print (ie pre-referee)</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>white</td>
<td>archiving not formally supported</td>
<td>31</td>
<td>28</td>
</tr>
</tbody>
</table>

Summary: 72% of publishers on this list formally allow some form of self-archiving.
As of today....

Publisher copyright policies & self-archiving

Statistics for the 116 publishers on this list

<table>
<thead>
<tr>
<th>ROMEO colour</th>
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<tr>
<td>green</td>
<td>can archive pre-print and post-print</td>
<td>58</td>
<td>50</td>
</tr>
<tr>
<td>blue</td>
<td>can archive post-print (i.e. final draft post-refereeing)</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>yellow</td>
<td>can archive pre-print (i.e. pre-refereeing)</td>
<td>5</td>
<td>4</td>
</tr>
<tr>
<td>white</td>
<td>archiving not formally supported</td>
<td>33</td>
<td>28</td>
</tr>
</tbody>
</table>

Summary: 72% of publishers on this list formally allow some form of self-archiving.

© University of Nottingham
US Congress working with National Institutes of Health (NIH) to develop new access policy (Feb 2005)

- Copies of all papers reporting research funded by NIH ($28 billion) will be deposited in PubMed Central by date specified by the author as soon as possible after acceptance of final peer reviewed manuscript (and within 12 months of the publisher's official date of final publication)

Approximately 60,000 papers each year will be made freely available

External climate - Open Access

gaining high level/funder support

• The Wellcome Trust announced (May 2005) that from 1st October 2005, all papers from new research projects must be deposited in PubMed Central or a UK PubMed Central – once it has been formed - within 6 months of publication.

• Looking for partners to set up UK PubMed Central

• £400 million producing 3500 papers per year

• (PubMed Central Feb 2000 - )
Reflects the view of 8 research councils  (28 Jun 2005)

**Mandate**

- Research Grants awarded from 1 October 2005 will require grant holders to copy any resultant published journal articles or conference proceedings in an appropriate e-print repository either institutional or thematic
  - Subject to copyright and licensing arrangements
  - Wherever possible at or around the time of publication
  - No obligation to set up a repository where none exists at present

- Will allow applicants to include predicted cost of publication in author-pays journals in fEC project costings
Next steps

RCUK Position Statement published on the RCUK website on 28 June 2005

Remains a consultative document until 31 August 2005 while:

- The remaining HEI responses are collected
- Formal comments from the British Library are awaited
- RCUK engages in detailed dialogue with the Learned Societies on a possible future role for them in the peer review process
- Continue in a wider grouping to address other concerns eg Preservation
External climate: currently 20+ UK IRs starting but set to increase

Guardian 14 March 2005:

Scottish universities sign open access deal
The declaration commits each of its 16 university signatories to setting up online libraries of research findings and doctorate papers which all academics can access
External climate - Declarations on Open Access

- Peter Suber - Timeline of the Open Access Movement
  [http://www.earlham.edu/~peters/fos/timeline.htm](http://www.earlham.edu/~peters/fos/timeline.htm)

- The IFLA Statement on Open Access to Scholarly Literature and Research Documentation
  [http://www.ifla.org/V/cdoc/open-access04.html](http://www.ifla.org/V/cdoc/open-access04.html)

- Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities (Max Planck) (Oct 2003) Now nearly 50 signatories
- Bethesda Statement on Open Access Publishing (Jun 2003)
- Buenos Aires
- British Columbia
- Russell Group (UK Universities) 2005

- Budapest Open Access Initiative Feb 2002 ([Soros Open Society](http://www.sorosopenociety.org))
The JISC vision reflecting the individual repositories (JISC Inform no. 8)
Southampton University management (agreed Nov 2004) to support the next stage of a library managed repository for key role in research recording and visibility tasks

'Collaboration between services and academic groups has been the key element in the success of the project'

Collaboration with both Information Systems Services and School of Electronics and Computer Science will continue although TARDis is completing its transition to invisibility.
We see our Institutional Repository as a key tool for the stewardship of the University's digital research assets,' said Professor Paul Curran, Deputy Vice-Chancellor of the University. 'It will provide greater access to our research, as well as offering a valuable mechanism for reporting and recording it.'
RAE management potential functionality – demo but planned enhancement

New JISC Project to design RAE module for use within EPrints and DSpace software (Southampton and Edinburgh)

Institutional Repositories and Research Assessment

http://irra.eprints.org/about. html

Select your Research Assessment
Exercise choices

Update RAE papers for: Sinha, Prof. Martin

Once you have selected your records to be used in the RAE you should finish adding your user record.

Items Selected for RAE return


Other records matching "Sinha"


Add measures of esteem

| Involvements in conferences/workshops (Program Committees, Chairing, etc) |
|-----------------------------|-----------------------------|
|                             |                             |

<table>
<thead>
<tr>
<th>Responsibilities in professional associations (IEE, BCS, etc)</th>
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</table>

<table>
<thead>
<tr>
<th>Responsibilities in grant awarding bodies (EPSRC, EU, etc)</th>
</tr>
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<tbody>
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<td></td>
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<table>
<thead>
<tr>
<th>External examination responsibilities</th>
</tr>
</thead>
</table>
Data available to Head of School

Carr. Les


Involvements in conferences/workshops (Program Committees, Chairing, etc.)


Responsibilities in professional associations (IEEE, ACM, etc.)
Not only but also

One good record for many uses
Showing benefit of high profile
Global Web Search Engines -
indexed by Google and Google Scholar and SCOPUS …
Add a link to your web page – auto update

Graham Quartly

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Email: gdp@ses.soton.ac.uk

Research Interests
- Rain detection and measurement via satellite scatterometers
- Remote sensing ambiguity and the estimation of rain from spaceborne instruments
- Radar wave propagation observed in sea surface height and temperature
- Early work on the Argus Satellite (as revealed by Showalter, 1977 and earlier)
- Observations of the Argus Satellite System using new parity models (with Wynn, 2002)
- Inversion of satellite measurements
- Sea state bias
- SST from passive microwave sensors

My papers in the EPRINTS archive (submitted versions only)

Results for Advanced Search

Authors/Creators/Editors matches all of "quartly". Results ordered by (most recent first). Displaying results 1 to 30 of 36. Search time: 0s.


Share the glory (interdisciplinary papers) and sell your book too

Value added: Journal URL and ISBN & metadata validation

Combinatorial chemistry and the Grid


http://eprints.soton.ac.uk/235/

Full text available as:
PDF - Requires Adobe Reader or other PDF viewer.
Microsoft Word - Registered users only - requires Microsoft Word or a .doc file viewer.

Abstract

Chemistry has always made extensive use of the developing computing technology and available computing power through activities such as modelling, simulation and chemical structure interpretation. As activities have become more complex, so too have the techniques for their analysis. In this respect, grid computing and parallel processing systems provide a powerful tool for tackling these problems. In particular, grid computing allows multiple locations to be linked through a network and access to different types of experimental equipment and machines. It is therefore ideally suited to the needs of the chemistry community. This paper describes a project which investigates the potential of grid computing for use in combinatorial chemistry research.
Secure storage and visibility – branding for a research group (view)

Methodology working papers
Methodology | Applications and Policy

Methodology working papers - ePrints demonstration page

All working papers are available only in Adobe Acrobat format and are listed in reverse chronological order.

These papers require at least Adobe Acrobat version 5.0 which was released in 2002. If you are using an older version of Acrobat, please upgrade to the latest free Acrobat Reader or request that the person responsible for your IT performs this upgrade for you. Although earlier versions may work, we do not have the necessary resources to support viewing our working papers in earlier versions of Acrobat.

Viewing papers 1 to 10 of 10
First page | Previous page | Next page | Last page

M03/11 - State-Space Modeling with Correlated Measurements with Application to Small Area Estimation Under Benchmark Constraints;
Danny Pfeffermann, Richard Tiller
View/Hide Abstract | View ePrints record/Download paper

M03/09 - A Simple Variance Estimator for Unequal Probability Sampling Without Replacement;
Yves C. Berger
Adding more functionality with ‘Latest feeds’ – by web site
Screen in foyer – is my paper there?
Hot off the screen!

Recent ECS publications


Text message record smashed

Text message records continue to be broken, with 26 billion texts sent in the UK in 2004.

Telewest to challenge Sky Plus

Cable firm Telewest is to offer a personal video recorder to challenge the market dominated by Sky.
Next phase includes building on TARDis (sequel)

- TARDis completed its transition to invisibility early in 2005

- **PRESERV** (Preservation Services for EPrints) - partnering with National Archives File Format Registry (PRONOM) and the British Library

- **CLADDIER** (Citation, Location and Deposition in Discipline and Institutional Repositories) Linking e-Research. – partnering CCLRC, Reading, NERC

- **GRADE** (Geospatial Repositories …) – partnering EDINA

Back to the Future !!
Farewell to the TARDis: embedding the institutional repository project in the institution

- Collaboration was the key
- Collaboration will be the key to future plans for large scale deposit / edit / retrieve / preserve

Project Team

Pauline Simpson, Project Manager
Jessie Hey, Research Fellow
Natasha Lucas, Admin Support
Chris Gutteridge (EPrints developer) / Tim Brody (IR developer)

Farewell to the TARDis