Aspects of Open Access for research libraries: a view from UCL

Martin Moyle
Assistant Director, Support Services
UCL Library Services

Belgrade, 16 September 2015
Topics

1. Open Access Theses and DART-Europe
2. Open Science and Research Data Management
Topics

1. Open Access Theses and DART-Europe
2. Open Science and Research Data Management
3. Open Access University Publishing: the UCL Press
Why Open Access theses?

- Often contain unique, cutting-edge research
- Highlight the work of early-career researchers
- They showcase research for a university; can lead to new collaborations; can help recruit Graduates
- Can be accompanied by interesting new datasets, models, multimedia, etc
- Openness makes plagiarism easier to detect
- Help new researchers become accustomed to OA
### Impact of OA theses

**Top 20 most-downloaded records in the UCL institutional repository, 2014**

<table>
<thead>
<tr>
<th>Rank</th>
<th>Paper</th>
<th>Downloads</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Steadman, P. (2006) <em>Why are most buildings rectangular?</em> Architectural Research Quarterly, 10 (2) 119 - 130. 10.1017/S1355671606000209.</td>
<td>4449</td>
</tr>
</tbody>
</table>
Global readership

http://discovery.ucl.ac.uk/19215

39,473 downloads since deposit (April 2010)
8,352 downloads in last 12 months
Impact of electronic theses vs print theses


Study of thesis usage at Dublin City University, 2009 calendar year

- **518** print thesis consultations (of entire collection of theses)
- **16,212** electronic thesis downloads (of 179 OA theses)
The DART-Europe E-theses Portal

• A discovery service for open access, research-level theses
• Run by UCL (unfunded)
• Metadata is harvested from European Universities and aggregators
• All theses OA
DART-Europe Portal: content

At 09 September 2015:

- 606,534 theses
- 581 universities, 28 countries
- Earliest thesis awarded in 1597
- Theses in 47 languages
- Average >200 new theses/day
Search the portal

Access to 607291 open access research theses from 581 Universities in 28 European countries.

Enter term(s) Bus strength superstructures

Latest additions to the Portal

A modified enhanced transmission line theory as a solution to wiring configurations inconsistent with the classical transmission line theory - Application to vehicle harnesses, Une théorie des lignes de transmission améliorée et modifiée comme solution à des configurations de cables incompatibles avec la théorie des lignes de transmission classique - Application aux faisceaux de cables automobiles.


A new mapped infinite partition of unity method for convected acoustical radiation in infinite domains.


A study on the ion temperature gradient driven turbulence in tokamak plasmas.


Acid-base regulation, calcification and tolerance to ocean acidification in echinoderms. Régulation acide-base, calcification et tolérance a l'acidification des océans chez les échinodermes.


Acquisition of reading and spelling skills of German-French bilingue children in

Most downloaded, last 7 days

1. Financieel strafrecht; een studie inzake strafrechtelijk gesanctioneerde vo...
2. The Holocaust in Greece: occupation, nationalism and legacy
3. A critical study of western views on Hadith with special reference to the v...
4. Experimentierendes Lernen in der Bauund Holztechnik [Elektronische Ressou...
5. Frater Max Schmalzl (1850 - 1930) [Elektronische Ressourc...
<table>
<thead>
<tr>
<th>Mark</th>
<th>Title</th>
<th>Author</th>
<th>Year</th>
<th>University</th>
<th>Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔</td>
<td>A methodology for redirected design of bus superstructures regarding their strength</td>
<td>Mitić Sala</td>
<td>2012</td>
<td>University of Belgrade</td>
<td>eThesis Serbia</td>
</tr>
<tr>
<td></td>
<td>Metodologija usmerenog projektovanja struktura autobusa u pogledu čvrstoće</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Assemblies of Polymetalates</td>
<td>Veen, S.J.</td>
<td>2009</td>
<td>Utrecht University</td>
<td>NARCIS</td>
</tr>
<tr>
<td></td>
<td>Strength and durability of steel to composite joints for marine application</td>
<td>Boyd, Stephen William</td>
<td>2006</td>
<td>University of Southampton</td>
<td>ePrints Soton</td>
</tr>
<tr>
<td></td>
<td>Susitraukimo itaka gelžetoninių elementų tampamiosios zones elgesai</td>
<td>Girniak, Viktor</td>
<td>2009</td>
<td>Vilnius Gediminas Technical University</td>
<td>LABT</td>
</tr>
<tr>
<td></td>
<td>Shrinkage Influence on Tension-Stiffening of Concrete Structures</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add to marked list

Displaying records 1 - 4 of 4 on page 1 of 1.
A methodology for redirected design of bus superstructures regarding their strength

Title: Metodologija usmerenog projektovanja struktura autobusa u pogledu čvrstoće

Publisher: University of Belgrade, Faculty of Mechanical Engineering

Type: PhD thesis

Format: application/pdf

Author: Mitić Saša

Contributor(s): Đorđević Miodrag, Vasić Branko

Subject(s): Absorbed energy, Absorbanarnost energije, Autobus, Bus, Passivna bezbednost, Passive safety, Plastični zglob, Pravilan, Redirected design, Rollover, Usmereno projektovanje

Abstract: Rollover is among the most common form of bus accidents. Bus safety issues include, among other things, the number of passengers that can be in a bus at the same time, limited extent to which passengers (safety belts, airbags, etc.) can be used, and a relatively low rollover stability of this type of construction requirements therefore include solutions for improved rollover safety as a part of the process. Within this dissertation, the developed methodological approach of superstructure forming is presented, which represents basic elements of superstructure strength. Starting on defining of plastic deformation zones during rollover and determination of located plastic characteristics. Then, discretized numerical beam models are formed, with experimental data characteristics and calculated values of absorbed energy. Achieved results enable improvement in the design process where, through higher level of numerical modeling and computer-aided techniques, characteristics of superstructure modular rings. Finally, assumed methodology has been verified on a real physical model of superstructure modular ring.

Date: 2012-06-21

Identifier: http://dx.doi.org/10.2288/87G29120921M2ITIC

Identifier: http://store.bg.ac.rs/application/showthr.php?record=353

UNIVERZITET U BEOGRADU
MAŠINSKI FAKULTET

Saša R. Mitić

METODOLOGIJA USMEROLOG PROJEKTovanja STRUKTURA AUTOBUSA U POGLEDU ČVRSTOĆE

- doktorska disertacija -

DART-Europe: who benefits?

- Universities and consortia
  - Helps to raise visibility
  - Easy to submit thesis records
- Thesis authors
  - Added exposure for work
- Researchers
  - A single venue for current awareness and discovery
  - Open Access means that all DART theses are accessible in full text
DART Portal usage: last 12 months

- 445,523 sessions
- 1,845,312 pageviews
- 191,290 click-throughs to full text
- Most-downloaded (697) -


http://www.dart-europe.eu/full.php?id=996775
Next steps

• Can the Serbian libraries contribute more OA theses to DART-Europe?
• Can the Serbian libraries promote the DART-Europe Portal to their researchers?
Topics

1. Open Access Theses and DART-Europe
2. Open Science and Research Data Management
Open Science
- an ongoing paradigm shift in the modus operandi of research and science impacting the entire scientific process

Drivers
• Growing researcher numbers
• Technology opportunities
• Society’s ‘Grand Challenges’
• Digital native researchers
• Increased expectations around integrity and accountability

Characteristics
• Increase in scientific production
• Open research collaborations
• More actors in the process
• Data-intensive science

90% of all the world’s data was generated in the last 2 years

See EC Science 2.0: Science in Transition: http://scienceintransition.eu/
LERU Roadmap for Research Data

• Overseen by Research Data Working Group

Pablo Achard (University of Geneva)
Paul Ayris (UCL, University College London)
Serge Fdida (UPMC, Paris)
Stefan Gradmann (University of Leuven)
Wolfram Horstmann (University of Oxford)
Ignasi Labastida (University of Barcelona)
Liz Lyon (University of Bath)
Katrien Maes (LERU)
Susan Reilly (LIBER)
Anja Smit (University of Utrecht)
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Policy and Leadership</strong></td>
<td>Identifies how policy development and leadership are undertaken</td>
</tr>
<tr>
<td><strong>Advocacy</strong></td>
<td>Who undertakes advocacy and what is the message?</td>
</tr>
<tr>
<td><strong>Selection, Collection, Curation, Description, Citation, Legal Issues</strong></td>
<td>Technical Issues around collection and curation</td>
</tr>
<tr>
<td><strong>Research Data Infrastructure</strong></td>
<td>Where is it stored and by whom?</td>
</tr>
<tr>
<td><strong>Costs</strong></td>
<td>How much does it cost?</td>
</tr>
<tr>
<td><strong>Roles, Responsibilities, Skills</strong></td>
<td>What skills are required by which communities?</td>
</tr>
<tr>
<td><strong>Recommendations to different stakeholder groups</strong></td>
<td>Who does what?</td>
</tr>
</tbody>
</table>

Key Messages

• Each LERU university needs a Research Data Management Strategy
• Researchers should have Research Data Management Plans
• LERU universities need to bring stakeholders together
• Benefits of ‘open data’ for sharing and re-use should be advocated and explored

A Box of Useful Knowledge (Brougham Papers, UCL Library Services)
Open Data

- Open Data allows research data to be shared and re-used
  - Avoids costly duplication of research activity
  - Provides greater transparency in research activity
  - Potential to speed discovery of solutions to societal Grand Challenges, such as health care & environmental science

- Can all research data be open?
- Certain categories probably cannot
  - National security
  - Data protection
  - Commercial Funder requirements

Liber has produced helpful guidance for libraries

- 10 Recommendations on how to get started in RDM

- 11 LIBER RDM Case Studies
  - [http://libereurope.eu/committee/scholarly-research/](http://libereurope.eu/committee/scholarly-research/)
## UCL’s performance against LIBER targets

<table>
<thead>
<tr>
<th>LIBER target</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Offer RDM support</td>
<td>6. Provide services for storage, discovery and permanent access</td>
</tr>
<tr>
<td>2. Engage in metadata services</td>
<td>7. Apply persistent identifiers to research data</td>
</tr>
<tr>
<td>3. Engage in professional skills development</td>
<td>8. Provide an institutional data catalogue</td>
</tr>
<tr>
<td>5. Create partnerships for interoperable infrastructures</td>
<td>10. Offer storage solutions</td>
</tr>
</tbody>
</table>
UCL Research Data Support Officer appointed April 2015
LEARN – LEaders Activating Research Networks

Purpose
- to develop the LERU Roadmap for Research Data to build a global co-ordinated global e-infrastructure

Partners
UCL (lead partner)
University of Barcelona
University of Vienna
LIBER
ECLAC – UN Commission for Latin America and the Caribbean

Outputs
- Model Research Data Management policy
- Toolkit to support implementation
- Executive Briefing in five core languages so as to ensure wide outreach

Dates
June 2015 – June 2017
Topics

1. Open Access Theses and DART-Europe
2. Open Science and Research Data Management
Institutional OA publishing - drivers

• Publishing technology is increasingly accessible
• Issues with current models
  – rising costs of monographs
  – harder for early-career researchers to publish
  – publisher resistance to site licensing for text books
• OA currently has more traction in STEM subjects than in monograph-based disciplines
• Global impact of OA for a University is demonstrable
# UCL Discovery downloads

Jan 2010-July 2015

<table>
<thead>
<tr>
<th>Year</th>
<th>Q1</th>
<th>Q2</th>
<th>Q3</th>
<th>Q4</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>516,951</td>
<td>584,026</td>
<td>60,468</td>
<td></td>
<td>1,161,445</td>
</tr>
<tr>
<td>2014</td>
<td>430,828</td>
<td>468,646</td>
<td>436,568</td>
<td>485,947</td>
<td>1,821,989</td>
</tr>
<tr>
<td>2013</td>
<td>334,159</td>
<td>343,262</td>
<td>320,162</td>
<td>379,428</td>
<td>1,377,011</td>
</tr>
<tr>
<td>2012</td>
<td>213,402</td>
<td>245,836</td>
<td>229,864</td>
<td>349,688</td>
<td>1,038,790</td>
</tr>
<tr>
<td>2011</td>
<td>146,748</td>
<td>155,152</td>
<td>107,601</td>
<td>175,464</td>
<td>584,965</td>
</tr>
<tr>
<td>2010</td>
<td>117,514</td>
<td>133,024</td>
<td>128,924</td>
<td>146,690</td>
<td>526,152</td>
</tr>
</tbody>
</table>

**Lifetime downloads (from Feb 08):** 6,996,998
Institutional OA publishing - challenges

• Publishing knowledge and expertise
• Scalable, sustainable business model
• Competing with established brands
UCL Press imprint was established in 1990 with a commercial publisher; it became dormant.

In 2013 it was re-established by UCL as a Department of the Library.

Formal launch in June 2015 as the UK’s first fully Open Access University Press.

UCL Press publishes books (scholarly monographs, textbooks, edited volumes, scholarly editions) and journals.
Setting up

- Call for Proposals
- 3-year business plan
- Budgets
- Distribution and print on demand
- Sales agents
- Contracts
- Website
- Staffing and recruitment
- Authors
- Metadata
- UCL Press logo
- Peer review
- Digital platforms
- Publicity and communication
- Governance
Books

• Book Processing Charge of £5,000 - waived for UCL members
• All book proposals are peer-reviewed
• 3 books published to date; 5 more due in Autumn 2015

• Plans for 20-25 books in 2016 and 30-35 in 2017
• Basic versions are free; other formats are charged
  o All titles available OA (PDF)
  o Print-on-demand and ebook versions chargeable
  o Highly-illustrated colour titles printed for stock in hardback and paperback; also available in free ‘enriched’ versions
Welcome

About the book:
The Petrie Museum of Egyptian Archaeology first opened its doors in 1915, and since then has attracted visitors from all over the world. Named after its founder, the pioneering archaeologist Flinders Petrie, the Museum holds more than 80,000 objects and is one of the largest and finest collections of Egyptian and Sudanese archaeology in the world. Experts discuss the discovery, history and care of key objects in the collections such as the Koptos Ions and Roman era panel portraits. The rich and varied history of the Petrie Museum is revealed by the secrets that sit on its shelves.

About this edition:
This enhanced ebook edition offers many bonus features:

- Video, audio and 3D content
- Deep zoom features allow users to magnify the detail of some of the wonderful objects from the Petrie collections
- Slideshows bring images to life
- The navigation bar at the top of the screen offers easy navigation of all 36 articles by theme. The tabs across the top of the screen or Search function can also be used to browse content.

Currently being developed as an OA web platform for all UCL Press books
Journals

Two journal services offered:

**Publishing service**
- Ingenta Connect platform
- Proposals must be accepted by UCL Press Board
- APCs for non-UCL authors
- 3 titles to date; 10 more proposals under consideration

**Hosting service**
- Available to UCL staff and students
- Uses OJS software over UCL Discovery
- No charge to editors
Staffing

November 2013
• Publishing Manager
2014
• Managing Editor
2015
• Marketing and Distribution Editor
• Commissioning Editor
Coming in 2016
• Journals Manager
• Administrative Assistant
Working with...

**Freelance**
- Copy Editors
- Proofreaders
- Designers
- Indexers

**Suppliers**
- Printers
- Digital developers
- Typesetters
- Print on demand

**Services**
- Distribution and warehousing
- Sales agents

**Partners / Platforms**
- OAPEN
- Amazon

---

UCL Press

---

UCL
Success measures

- OA downloads
- Usage of enhanced editions
- Demand from authors
  - Over 100 book proposals received
    (80% UCL authors)
  - Top subjects: archaeology, anthropology, architecture, history
- Sales figures
- Reviews
- Social media activity, e.g. Twitter
Conclusion

• UCL Press is part of UCL’s commitment to OA
• It shows UCL taking charge of the dissemination of its research
• UCL Press benefits UCL by raising the visibility, accessibility and use of its research, for academics, policy-makers, industry and the public

“...a 21st century approach to the dissemination of knowledge and wisdom”
Professor Michael Arthur, Provost and President of UCL
Thank you

Martin Moyle
m.moyle@ucl.ac.uk
http://www.ucl.ac.uk/library