The Emergence of Research Information Management (RIM) within US libraries

Rebecca Bryant, OCLC Research
Maliaca Oxnam, University of Arizona
Paolo Mangiafico, Duke University
## Today’s format

<table>
<thead>
<tr>
<th>Topic</th>
<th>Speaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to RIM and library involvement</td>
<td>Rebecca Bryant</td>
</tr>
<tr>
<td>RIM adoption, IR integration, &amp; faculty engagement at Duke</td>
<td>Paolo Mangiafico</td>
</tr>
<tr>
<td>Implementing RIM for faculty annual reviews at Arizona</td>
<td>Maliaca Oxnam</td>
</tr>
<tr>
<td>Conclusions</td>
<td>Rebecca Bryant</td>
</tr>
<tr>
<td>Discussion</td>
<td>All</td>
</tr>
</tbody>
</table>
Rebecca Bryant, PhD
Senior Program Officer, OCLC Research

- bryantr@oclc.org
- @rebeccabryant18
- orcid.org/0000-0002-2753-3881
OCLC Research Library Partnership (ORLP)

- ~160 research libraries worldwide
- Develop a shared understanding trends & opportunities
- Engagement with OCLC Research
- Global interactions & collaboration

RIM Efforts

- Working groups
  - International survey on RIM practices at research universities (in collaboration with EuroCRIS)
  - Value proposition of libraries in RIM
- Webinars
  - Quarterly webinars by ORLP member institutions on RIM topics
  - Archived for entire library community
- RIM listserv

www.oclc.org/research/partnership.html
The Realities of Research Data Management

oc.lc/rdm

- Examines how universities acquire capacity to serve local RDM needs.
- Case studies of four research universities:
  - University of Edinburgh (UK)
  - University of Illinois at Urbana-Champaign (US)
  - Wageningen University & Research (Netherlands)
  - Monash University (Australia)

- The first of four reports was just released
What is Research Information Management (RIM)

The aggregation, curation, & utilization of metadata about research activities

Overlapping terms:
• CRIS (Current Research Information System)
• RNS (Research Networking System)
• RPS (Research Profiling System)
• FAR (Faculty Activity Reporting)

• RIMs are not independent researcher profile systems like Research Gate or Academia.edu
• RIM ≠ Research Data Management (RDM)
Why discuss RIM?

• Increasingly networked environment made possible through changes in scholarly communications infrastructure
  o Greater ability to aggregate and reliable exchange information
  o Opportunity to be intentional about interoperability & reuse

• Widespread RIM adoption internationally, with growing library engagement
WHAT INFORMATION MAY BE INCLUDED IN RIM?

And where does it come from?
Institutions may implement one or all of these functions.
Persistent identifiers enable improved interoperability between systems—locally and globally
Campus systems & local researchers

- Repositories
- National registries
- Funding agencies

Publications workflows & indexes

Campus Research Information

ID

doi®

ISNI

OCLC®
Maliaca Oxnam
Associate Librarian, Office of Digital Innovation & Stewardship

- maliaca@email.arizona.edu
- @maliaca
- orcid.org/0000-0002-0201-8605
What did we achieve?
Mandatory participation

Includes all faculty at University

Transitions paper processes to online

Integrates with campus data systems

Includes appointed professionals and staff

Faculty self-report of ALL scholarly activities

Facilitates/Records Evaluations
ACTIVITIES | UNIVERSITY OF ARIZONA

- LBRY Key Priorities
- Goals and Progress
- Workload Distribution
- Teaching: Credit Bearing Courses
- Teaching: Guest Lectures and Invited Teaching
- Teaching: Student Mentoring, Advising and Activities
- Teaching: Development of Instructional Resources
- Research: Scholarly Contributions and Creative Productions

<table>
<thead>
<tr>
<th>Type</th>
<th>Title</th>
<th>Outlet</th>
<th>Year</th>
<th>Status</th>
<th>Term</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Journal/Publication</td>
<td>Around the World to the University of Arizona: one year of lessons learned in the new Information commons...</td>
<td>Library Hi Tech News</td>
<td>2003</td>
<td>Completed/Published</td>
<td>Spring 2003</td>
<td></td>
</tr>
</tbody>
</table>
UA Profiles provides a single and convenient place for you to learn more about our faculty members and their achievements. Faculty profiles include information about teaching, research, service, and other activities.
Eric H Lyons
Assistant Professor, Plant Science
Assistant Professor, BIOS Institute
Assistant Professor, Genetics - GIDP
Advisor, CALS' Office of the Assoc Dean - Research for Cyber Initiatives in Agricultural / Life - Vet Science
Assistant Professor, Agricultural-Biosystems Engineering

Contact
(520) 626-5070
FORBES, Rm. 303
TUCSON, AZ 85721-0036
ericlyons@email.arizona.edu

Biography
Research Interests
Genome structure, evolution, and dynamics

Related Links
Share Profile
Why did we do this?

- Modernize faculty annual review
  - Faculty reporting
  - Workflow and review documentation
- Align annual review and P&T processes
- New reporting options and efficiencies
  - Faculty can tell their own stories
- Interactive faculty directory and profile system
- More vigorous and to some degree standardized review processes
  **Department/college review is regulated thru faculty governance**
- Reuse & Interoperability with other systems
  - Data Transparency
How many people did it take?

**UA Vitae**

- Core Team - 1.5-3 FTE/yr
  - Lead, Data Architect, Bus. Analyst
  - Adding Training Specialist (PT)
  - Adding 2nd Business Analyst (PT)
- College /Department Leads
- Stakeholder Advisory Team
- Faculty Advisory Team (adhoc)

**Profiles**

- Core Team – 7 members
- Stakeholder Advisory Team
What Systems do we use?

- Interfolio’s Faculty180
  - Course System (courses and evaluations)
  - HR System
  - Graduate Advising System
  - Sponsored Research System

- ORCID (forthcoming)
- Vivo (?)

- Neo4J with custom web display
Research Information Management at Duke University: Researcher-centered and Library-supported

Paolo Mangiafico
Duke University Libraries
@paoloman

CNI Spring Meeting
April 2017
What are we doing, and why does it matter?
A synoptic view
From outside-in to inside-out
Richard G. Newell
Gendell Family Professor of Energy and Environmental Economics

Dr. Richard G. Newell is the Gendell Professor of Energy and Environmental Economics at the Nicholas School of the Environment, Professor of Economics, and Professor of Public Policy at Duke University. He is Director of the Energy Data Analytics Lab and during 2011–2016 he was Founding Director of the Duke University Energy Initiative. Dr. Newell is the former Administrator of the U.S. Energy Information Administration (EIA), the agency responsible for official U.S. government energy sta (... more)

Current Appointments and Affiliations

- Gendell Family Professor of Energy and Environmental Economics, Environmental Sciences and Policy, Nicholas School of the Environment 2013 -
- Adjunct Professor, Environmental Sciences and Policy, Nicholas School of the Environment 2016 -
- Professor in the Department of Economics, Economics, Trinity College of Arts & Sciences 2013 -
- Professor in the Sanford School of Public Policy, Sanford School of Public Policy, Duke University 2013 -
- Faculty Network Member of The Energy Initiative, Energy Initiative, Initiatives 2016 -
Contact Information
9 Circuit Dr, Environment Hall, Durham, NC 27708
Box 90328, Durham, NC 27708
✉️ richard.newell@duke.edu (919) 681–8663

- Energy Initiative Webpage
- Google Scholar
- IDEAS Profile
- LinkedIn Profile
- NBER Profile
- Nicholas School Faculty Webpage
- ORCID Profile
- ResearchGate Profile
- ResearcherID Profile
- SCOPUS Profile

Education and Training
- Ph.D., Harvard University 1997
- M.P.A., Princeton University 1990
- B.A., Rutgers University 1988
- B.S., Rutgers University 1988
In the News

MAY 27, 2016  The New York Times
Richard Newell comments: Trump urges more drilling and few rules

MAY 26, 2016  The New York Times
Richard Newell comments: Donald Trump to speak on energy after contradictions and stumbles

MAY 23, 2016
Duke’s Richard Newell Named Next President of Resources For The Future

MAY 19, 2016  The Conversation
A Tale of Two Oil and Gas Boomtowns

MAY 19, 2016  The Conversation
Richard Newell, Daniel Raimi: A tale of two oil and gas boomtowns -- a boost to the economy, a tricky landing

Subject Headings

Biofuels  Carbon Dioxide
Carbon Sequestration  Carbon taxes
Change  Climate Change
Coal  Cost–Benefit Analysis
Diffusion  Economics
Efficiency  Electricity
Awards and Honors


Nancy Lyman Roelker Prize, Sixteenth Century Society and Conference. 2006

Professional Activities

Presentations and Appearances

Climate Policy Options: Advice for the Next Administration. January 4, 2009


Innovation Strategies for Addressing Climate Change. December 12, 2008


Understanding the Role of Transformational S&T in Integrated Assessment Research. November 13, 2008

Show More Presentations and Appearances...

Global Scholarship

Expertise

northern America (Continent)

Research

Saudi Arabia (Country)

United States of America (Country)
Selected Publications

Books


Book Sections


Journal Articles


Reports


## Selected Grants

  - Developing a comprehensive understanding of the local government fiscal impacts from oil and gas development in USA awarded by Alfred P. Sloan Foundation 2014 – 2016
- **Richard Newell with Sunovations** awarded by Sunovations 2015

Awards that do not permit publicity, particularly prior to 2012, are not displayed.

## Recent Courses

- **ENERGY 396: Connections in Energy: Interdisciplinary Team Projects** 2016 –
- **ENERGY 796: Connections in Energy: Interdisciplinary Team Projects** 2016 –
- **ENVIRON 593: Independent Studies and Projects** 2016 –
- **ENVIRON 899: Master’s Project** 2016 –
- **ENERGY 395: Connections in Energy: Interdisciplinary Team Projects** 2015 –
- **ENERGY 795: Connections in Energy: Interdisciplinary Team Projects** 2015 –
- **ENERGY 396-1: Connections in Energy: Interdisciplinary Team Projects** 2014 –
- **ENERGY 635: Energy Economics and Policy** 2014 –
- **ENVIRON 635: Energy Economics and Policy** 2014 –

Some information on this profile has been compiled automatically from Duke databases and external sources. (Our [About page](https://www.scholars-duke.org/about) explains how this works.) If you see a problem with the information, please write to [Scholars@Duke](mailto:scholars@duke.edu) and let us know. We will reply promptly.
RICHARD G. NEWELL
Gendell Professor of Energy and Environmental Economics
Director, Duke Energy Initiative

PRIMARY APPOINTMENT
Environmental Science & Policy Division

SECONDARY APPOINTMENT
Earth & Ocean Sciences Division

Dr. Richard G. Newell is the Gendell Professor of Energy and Environmental Economics at the Nicholas School of the Environment, Professor of Economics, and Professor of Public Policy at Duke University. He is Director of the Energy Data Analytics Lab and during 2011-2016 he was Founding Director of the Duke University Energy Initiative. Dr. Newell is the former Administrator of the U.S. Energy Information Administration (EIA), the agency responsible for official U.S. government energy statistics and analysis. He also served as the Senior Economist for energy and environment on the President’s Council of Economic Advisers, prior to which he was a Senior Fellow at Resources for the Future (RFF).
Richard G. Newell

Gendell Family Professor of Energy and Environmental Economics

Profile URL
https://scholars.duke.edu/person/richard.newell

Overview
Dr. Richard G. Newell is the Gendell Professor of Energy and Environmental Economics at the Nicholas School of the Environment, Professor of Economics, and Professor of Public Policy at Duke University. He is Director of the Energy Data Analytics Lab and during 2011–2016 he was Founding Director of the Duke University Energy Initiative. Dr. Newell is the former Administrator of the U.S. Energy In... more

Office Hours

Global Scholarship
Saudi Arabia (Country) Research
United States of America (Country) Research
northern America (Continent) Expertise

9 Circuit Dr, Environment Hall
Durham, NC 27708
Box 90328
You have 6 pending publications. Click "Manage Publications" to go to Elements.

The following publications appear on your profile. (Click for full bibliographic details.)


# Implications of shale gas development for climate change

Newell RG, Raimi D

Environmental Science and Technology 48(15):8360-8368 05 Aug 2014  Duke open access repository

Reporting date: 13 May 2014 Edit

---

## Journal Rankings

<table>
<thead>
<tr>
<th>ISSN</th>
<th>SNIP</th>
<th>SJR</th>
<th>ERA2010</th>
<th>Impact Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1520-5851</td>
<td>1.927</td>
<td>2.464</td>
<td>A*</td>
<td>-</td>
</tr>
<tr>
<td>0013-936X</td>
<td>1.927</td>
<td>-</td>
<td>A*</td>
<td>-</td>
</tr>
</tbody>
</table>

## Citations

<table>
<thead>
<tr>
<th>Source</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scopus</td>
<td>33</td>
</tr>
<tr>
<td>WoS</td>
<td>26</td>
</tr>
<tr>
<td>Europe PMC</td>
<td>2</td>
</tr>
</tbody>
</table>

---

Altmetrics:

- Count: 133
Dear Professor Blythe Williams,

This is an automated message from the Elements system at Duke University, where you can manage the publications listed on your Scholars@Duke profile and other University web sites that draw profile data from it, such as departmental web sites. In Elements you can also upload the full text of your publications for open access via the DukeSpace repository so that viewers of your profile or a Google Scholar search may click through to the publication itself regardless of whether they are at an institution that subscribes to the journal.

Duke Elements regularly searches a range of online databases (including Scopus, Web of Science, PubMed, and others) to find publications that appear to be authored by you, to assist you in keeping your publications list current in your public profile. For your account, Elements has found:

- 10 new publications are waiting for you to approve before they will appear on your profile.
- 3 of these publications are eligible for you to make available freely to the public as full-text under the Duke Open Access policy.

The title of the most recent publication found for you by the system is:

*Maternal mortality and near miss morbidity at the university teaching hospital in Kigali, Rwanda*

Only publications that have been approved will appear in your Scholars@Duke profile, or other web sites that draw from it.

To verify that these publications are yours or correct any errors, please use your Duke NetID to log in to the Duke Elements system at elements.duke.edu (or using the login link below) and then approve or decline the publications in the pending category. If there are a large number of "false positive" publications that are not really yours, please contact elements@duke.edu and we can help to refine the search settings.
The effects of economic and policy incentives on carbon mitigation technologies

Newell RG, Jaffe AB and Stavins RN, Energy Economics, 2006

Deposit advice

For *Energy Economics*:

✔ Author can archive submitted version (i.e. pre-refereeing).

✔ Author can archive accepted version (i.e. final draft post-refereeing).

❌ Author cannot archive publisher's version / PDF.

Conditions:

- Authors pre-print on any website, including arXiv and RePEc
- Author's post-print on author's personal website immediately
- Author's post-print on open access repository after an embargo period of between 12 months and 48 months
- Permitted deposit due to Funding Body, Institutional and Governmental policy or mandate, may be required to comply with embargo periods of 12 months to 48 months
- Author's post-print may be used to update arXiv and RepEC
- Publisher's version/PDF cannot be used
- Must link to publisher version with DOI

Upload files

Upload files from your local machine:

Choose file: Browse... No file selected.

File version: [None]
Raise Your Profile

Showcase your expertise, research, and teaching using Scholars@Duke.

LEARN MORE

Duke Libraries can help you share your peer-reviewed article, thesis, dissertation, data, or other digital objects via an open access repository. We provide a platform for publishing and managing an online journal, and can advise on copyright issues, scholarly publishing, data management, building and managing digital research projects, and more.
Increase your reach and impact

We can help you find the right venue to publish your work, how to reach a broad and diverse audience, and show you how you can track who is referencing your work and what they are saying.

Learn more

Have a question about copyright?

Contact Duke's Office of Copyright and Scholarly Communications for individual consultations or to arrange workshops on issues related to copyright and fair use.

Learn more

Share your work with the world

Did you know that Duke has an open access policy? We can help you make sure your work is available to anyone who might want to read it, via your Scholars@Duke profile.

Learn more

SCHOLARWORKS HIGHLIGHTS

Read examples of how your colleagues are getting more reach for their research.

SEE MORE STORIES ABOUT DUKE RESEARCH
Duke Libraries can help you share your peer-reviewed article, thesis, dissertation, data, or other digital objects via an open access repository. We provide a platform for publishing and managing an online journal, and can advise on copyright issues, scholarly publishing, data management, building and managing digital research projects, and more.
FACULTY MOVE FORWARD ON OPEN ACCESS POLICY

Work to begin on building service system for repository

GEORGE MCKEOWN

In a unanimous vote, the Academic Council approved a resolution supporting a new open access repository for faculty scholarly writings, but asked that organizers return for more discussion when they have details in place about how the repository would be serviced.
Scholars@Duke

Scholars@Duke is a hub that brings together the research and teaching activities of all Duke faculty members. Information about faculty comes from institutional and public data sources, gathered by a suite of tools. Scholars@Duke includes an expertise network, web profiles, and an archive of publications.

Based on VIVO, the research-focused discovery tool, Scholars@Duke helps local and global communities connect to Duke scholarship.
VIVO creates an integrated record of the scholarly work of your organization
Who is Elements for?

Researchers
Founded by researchers, for researchers our products are designed to reduce manual effort, improve data quality and expedite the transfer of data between systems. That means researchers can spend their time on what matters most – their research.

Librarians
Librarians from across an institution, often in the context of Open Access, use our products to guarantee the quality of research data held in institutional repositories and other collections.

Administrators
Elements has been specifically developed to gather the data institutions need for internal and external assessment. Prepare for government returns, facilitate decision processes and report on the scholarly activity undertaken across an institution.
Keep in mind the difference between means and ends
Keep the focus on your researchers’ goals
Search for Duke OCLC RIM webinar to see a more complete version of this presentation given in January.
Paolo Mangiafico
paolo.mangiafico@duke.edu
@paoloman

Office of Copyright & Scholarly Communication
Duke University Libraries

scholarworks.duke.edu
scholarworks@duke.edu
@dukeopenaccess

scholars.duke.edu
scholars@duke.edu
@scholarsatduke
What does this mean for libraries?

• Libraries are partners but rarely the sole owner of RIM

• Libraries offer important expertise & values
  – Support & training for researchers
  – Up-to-date knowledge of scholarly communications trends, and intersections with OA, RDM, identifiers
  – Knowledge to support discoverability, preservation
  – Bibliographic metadata & standards
  – Bibliometrics & altmetrics
Discussion

• Why should universities do this?
• Why should libraries do this?
• Who are the partners? Leaders? Liaisons?
• What resources are needed? Being used?
• Who are these services intended to serve? What are the primary goals?
• How are services being received?
• How do these systems interoperate with others?
ORLP Working group 1: Survey of Global RIM practices

• What is RIM? How is it being implemented worldwide?
• Collaborating with EuroCRIS

Working group members:
• Pablo de Castro, EuroCRIS
• Anna Clements, University of St. Andrews
• Constance Malpas, OCLC Research
• Michele Mennielli, EuroCRIS
• Rachael Samberg, University of California-Berkeley
• Julie Speer, Virginia Tech University
ORLP Working group 2: Value proposition of libraries in RIM

- Why & how are libraries engaged?
- Understanding the enterprise nature of research information management

**Working group members:**
- Anna Clements, University of St. Andrews (UK)
- Carol Feltes, Rockefeller University (US)
- David Groenewegen, Monash University (Australia)
- Simon Huggard, La Trobe University (Australia)
- Holly Mercer, University of Tennessee-Knoxville (US)
- Roxanne Missingham, Australian National University (Australia)
- Maliaca Oxnam, University of Arizona (US)
- Annie Rauh, Syracuse University (US)
- John Wright, University of Calgary (Canada)
The Emergence of Research Information Management (RIM) within US libraries

Rebecca Bryant, OCLC Research
Maliaca Oxnam, University of Arizona
Paolo Mangiafico, Duke University