Capturing STEM Student Symposium Posters in Rowan Digital Works: Workflows and Statistics

Daniel G. Kipnis, MSI, Rowan University
Denise A. Brush, MLIS, Rowan University

Friday, July 27, 2018
First annual Mid-Atlantic Digital Commons User Group Meeting
Who we are

Daniel G. Kipnis, MSI

- Life Sciences Librarian, Rowan University, Glassboro, New Jersey
  (Formerly, IR manager at Thomas Jefferson University, Philadelphia, Pennsylvania)

Denise A. Brush, MLIS

- Engineering Librarian & Manager of Rowan Digital Works, Rowan University, Glassboro, New Jersey
Agenda

• Historical perspective on project
• Goal of project
• Lessons learned
• Conclusions
• Questions
Context - our institutional repository

- Previously DSpace repository for theses and dissertations only
- Purchased bepress platform 2015, migrated repository to DC
- Named our new IR “Rowan Digital Works”
- Began with theses/dissertations, but added many projects
- IR committee meets monthly, chaired by Denise
- Always seeking new collections and uses for RDW!
Historical Perspective

- Dan started working at Rowan in early January 2018
- Planning for 4/20 STEM symposium already started in 2017
- Dan had to present idea to IR committee for approval
- Also needed approval from Associate Provost for Libraries
  - Met with him and our manager to discuss workload and schedule, whether timeframe was too tight
- Project approved 2/26!
Once approval received, Dan and Denise worked on:

- **Type of series** - decided on event series
- **Where in IR structure new series would go** - created new community Conferences, Events & Symposia
- **Determined metadata and workflow needed**
- **Decided students would upload their own posters**
- **Developed and tested instructions to be given to students for loading posters with several colleagues for clarity**
Goals of project

- To archive all 227 undergraduate STEM poster from 21st annual STEM symposium in Rowan Digital Works
- To have students upload their own metadata and signed permission forms
- To minimize librarian involvement in getting posters in IR
- To create a platform to archive future (and possibly past) STEM symposiums held at Rowan University

STEM Symposium held Friday April 20, 2018
This page showcases student posters from the STEM Student Research Symposium held annually on the Glassboro campus, beginning with the 21st Annual Symposium which occurred on April 26, 2018.

Browse the contents of Student Research Symposium Posters:
2018
Reminder email sent Sunday April 22nd (Event was on Friday April 20th)

View Rowan Announcer Submission

How to share your STEM Symposium poster outside Rowan

The 2018 STEM Symposium may have come and gone, but you can still share your STEM poster online and reach the STEM community beyond Rowan University! Instructions for uploading your poster to Rowan Digital Works are available in the STEM Symposium 2018 Post-Submission Packet.

Rowan Digital Works is a service provided by the Rowan University Library. If you have questions about the uploading process or about Rowan Digital Works in general, you are encouraged to get in touch with Daniel Kipnis kipnisd@rowan.edu for assistance.

Contact Information:
Gregory Hecht
Dept. Biological Sciences
Associate Professor / Coordinator Rowan University STEM Symposium
hecht@rowan.edu
Phone: 856-256-4500 x33577

Email sent out to the entire University campus!!

This will work.

All hands on deck, batten down the hatches!!

Submitted By:
Name: Gregory Hecht
Department: Biological Sciences
Title: Associate Professor
E-Mail: hecht@rowan.edu
Monday April 23rd

- Technical difficulties (bepress site was down for the week)
- Did this prevent deposits from coming in?
- Did email sent on Sunday get ignored?
- Did last week of classes influence the low contributions?
Customized poster upload form

- Dan authored detailed handout with screenshots and step-by-step instruction on how to deposit posters
- Worked with bepress consultant to develop customized upload form for deposit
- Form included detailed instructions for each field, to help students understand how to upload their metadata
Upload Poster form (top)
Date of Presentation
Poster sessions occur at 8:00 AM, 10:00 AM, 12:00 PM and 2:00 PM (14:00 hours).

College
If representing more than one college, please designate lead affiliation.

Lead affiliation:
College of Communication & Creative Arts

Faculty Sponsor(s)
Please enter the full name(s) of your faculty sponsor(s). If more than one, separate with a comma.
Faculty Sponsor(s):

Poster Abstract
Learn how the description can improve the discovery of your document in Google and Google Scholar.

Poster Abstract:
Rest of metadata, uploading poster and permission form

**Poster Abstract**

Learn how the description can improve the discovery of your document in Google and Google Scholar.

**Student Keywords**

Please enter up to 6 keywords or phrases, separated by commas, that best describe your poster content.

**Disciplines**

Please indicate the academic discipline(s) that best describes your submission. Click here to view the complete list of disciplines.

**Poster Upload (PDF)**

You must upload a PDF. No other file types are accepted.

- Upload file from your computer
- Import file from remote site

**Supplemental File**

Check this box to upload your signed Faculty Permission Form on the following screen.

This may take a while. Please only click once.
Day of Symposium

- Dan handed out permission forms to 45 unique poster teams (19.8% of posters in symposium)
- Discussed benefits of depositing poster in RDW
- Handed out business card if had any questions
- Great visibility for library and for Dan as science librarian
Permission form for Rowan Undergraduate Research Posters

Posters created for the Rowan Undergraduate Research Symposium are eligible for deposit in Rowan Digital Works with the signature of a faculty sponsor(s). Rowan Digital Works (RDW), is the Institutional Repository (digital archive) of Rowan University.

The objectives of the Rowan Undergraduate Research Posters Conference collection in RDW are to:

• Provide open access to the materials offered at the annual Rowan Undergraduate Research Posters symposium
• Demonstrate the variety, depth, and utility of the annual Rowan Undergraduate Research Posters symposium by Rowan University
• Securely archive the Rowan Undergraduate Research Posters in one digital space

I grant permission to provide internet access to my original research and scholarship through Rowan Digital Works (RDW).

I grant and assign to Rowan Digital Works the non-exclusive right to publish my work throughout the world in electronic format and to market it or any part of it as it sees fit, including distribution through third-party database aggregators. Copyright of this work remains in my name and I reserve all other rights.

I represent and warrant that the work (a) is my original work and I have full power to enter into this agreement; (b) does not infringe on the copyright or property right of another and have secured any permissions that may be required; and (c) contains no material which is obscene, libelous, defamatory, or violates another's civil right, right of privacy, or is otherwise unlawful. I shall indemnify and hold Rowan Digital Works harmless against loss or expenses arising from breach of any such warranties.

In the case of a multi-authored work, I, by accepting this agreement, signify the acceptance of terms for myself and all other authors.

Please note that nothing in this agreement represents a transfer of copyright nor does it restrict deposit of your contribution to another institutional or disciplinary repository.

By signing this contract I represent and warrant that the above are true.

Please print:

Student Name(s) (list all students authoring poster): ________________________________________________________________

Student Signature of main author & Date: __________________________________________

Student Personal Email Address: ________________________________________________

Department: ________________________________________________________________

Title of Poster: ______________________________________________________________

FACULTY SPONSOR MUST SIGN OFF IN ORDER FOR POSTER TO BE DEPOSITED IN RDW

PLEASE PRINT

Faculty Sponsor Name: ________________________________________________________

Faculty Sponsor Signature: ____________________________________________________

_____ Yes, I have evaluated this project and sign off on it being deposited and archived for open access in Rowan Digital Works

Form should be returned to student who will submit their poster and signed form for deposit in Rowan Digital Works.
Problems

- Permission form a possible roadblock -
  - In 2 instances student did not upload scanned permission form as supplemental file
  - Students might not know where or how to scan?
  - Needing to follow-up with student for permission forms
- Timing: last week prior to exams, students were busy
- As of July 24, 2018 **5 posters** were submitted
  - 2% return not so great (not rounding up)
Downloads so far entire collection (as of July 24, 2018):

- 39 total downloads for all 5 posters
- 9 countries and 13 institutions (89% educational)

- Introduction To Infrastructure - The Influence of Natural Disasters on Infrastructure (18 downloads since April 30, 2018)
- Using data visualization to inform machine learning approaches (11 downloads since May 3, 2018)
# Poster Schedule

## 2018

### Friday, April 20th

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 AM</td>
<td><strong>Introduction To Infrastructure - The Influence of Natural Disasters on Infrastructure</strong></td>
<td>Tri Tam Nguyen, Rowan University, Sean M. Raday, Rowan University, Daniel Leverick, Rowan University</td>
</tr>
<tr>
<td></td>
<td><strong>Using Data Visualization to Inform Machine Learning Approaches</strong></td>
<td>Eric N. Zielonka, Alexander Fritz</td>
</tr>
<tr>
<td>12:00 PM</td>
<td><strong>Aircraft Hangar Demolition and Reconstruction</strong></td>
<td>Anthony Feeney, Rowan University, Stephen Luppino, Rowan University, Michael Simeone, Rowan University, Tony Carlino, Rowan University</td>
</tr>
<tr>
<td></td>
<td><strong>Ecological Footprint of Flood Mitigation Structures at the Absecon Inlet</strong></td>
<td>Eduardo Garcia, Rowan University, MacKenzie Carr, Rowan University, Jason Loffler, Rowan University</td>
</tr>
<tr>
<td>2:00 PM</td>
<td><strong>Primordial Black Hole Atoms</strong></td>
<td>David Zwick, Rowan University, Tyler Hanover, Rowan University, Brian Nepper, Rowan University</td>
</tr>
</tbody>
</table>
Introduction To Infrastructure - The Influence of Natural Disasters on Infrastructure

Tri Tam Nguyen, Brown University
Sean H. Raday, Brown University
Daniel Leverick, Brown University

Date of Presentation
4-20-2018 10:00 AM

College
Henry M. Jackson College of Engineering

Faculty Sponsor(s)
Ralph Dusseau, Jagadish Torapatil

Poster Abstract
In this paper, three major hurricanes in 2017 were examined to determine the damage these hurricanes have done to the infrastructure. Infrastructure has an important role in the nation’s sustained economic development. Infrastructure consists of two main types which are “hard” infrastructure and “soft” infrastructure. Hard infrastructure is the physical networks which include transportation, power, etc., while soft infrastructure is institutions and human capital. Inadequate and inefficient performance of “hard” or “soft” infrastructure would prevent economy from achieving full growth. In the past decades, a significant increase in the number of natural disasters has had great impact on infrastructure systems. The primary topics discussed include demographic analysis, geotechnical failures, structural damage, transportation, and environmental issues. Based on the examined information, each location will be evaluated by the sustainability and resiliency of its infrastructure systems.

Student Keywords

Lessons learned for next year

- 5/227 isn’t a good showing...but deposits can happen at any time!
- Per faculty organizer, for next year hope to have dedicated table at symposium, so students can upload posters at event and have sponsors sign off on permission forms
- Announcements would be made to presenters encouraging deposits
- Use Genius Scan app to snap picture of permission forms to add to supplemental file
- We can only add more posters next year!
Acknowledgments

- Gregory Hecht, PhD, Associate Professor, Department of Biological Sciences, Rowan University
- Hannah Whitman, Digital Commons rep, for helping us create customized forms
- Internal testers (Rowan Library staff) and consultants
Questions?

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