Disclaimer: While the analyses presented in this report and attachments are based on research funded by the Andrew W. Mellon Foundation, any opinions, findings, and conclusions or recommendations expressed are those of the authors and do not necessarily reflect the views of the Foundation.

FINAL REPORT
OPEN ANNOTATION COLLABORATION PHASE III:
ADOPTION, COMMUNITY & INFRASTRUCTURE

Prepared by
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Prepared for
The Andrew W. Mellon Foundation

Contents
1. Project Description & Objectives
2. Deliverables
3. Accomplishments
4. Challenges
5. Project Personnel Summary / Updates
6. Dissemination
7. Intellectual Property
8. Future Plans
9. Financial Narrative

Attachments:
• Meeting Summaries for April, May, and June Open Annotation Data Model Rollout Meetings

References (On the Web):
• Notes from the 25 June 2013 meeting of the W3C OA Community Group
http://lists.w3.org/Archives/Public/public-openannotation/2013Jun/0004.html
• Videos from the May OAC Rollout Meeting at MITH
http://vimeo.com/search?q=oac+rollout
• W3C Open Annotation Community Group
http://www.w3.org/community/openannotation/
1. Project Description & Objectives

During Phase II, the Open Annotation Collaboration (OAC) was able to experiment with implementations of its nascent digital annotation data model. In conjunction with the Annotation Ontology project, OAC founded the W3C Open Annotation Community Group and produced a production ready version of the data model and ontology. The OAC Phase III project focused on disseminating the data model and results of experiment, and building foundational resources for developers to help them implement the Open Annotation data model in their own applications.

To complete the dissemination phase, the OAC engaged community stakeholders directly through:
- Three formal public rollouts,
- Outreach & education through workshops & tutorials at conferences and similar venues, and
- Continued development of the W3C Open Annotation Community Group.

Simultaneously with the dissemination and stakeholder engagement, OAC team members also set as a goal the creation of three basic infrastructure elements:
- An Open Annotation validation service with advanced discovery and browse features; providing developers with a target for testing their annotation clients and applications.
- A shared registry of Open Annotation related tools, services, and related projects; providing developers and OA community members with a venue for sharing and exchanging technical information.
- A general-purpose video annotation plugin for Drupal-based applications; serving both as an exemplar application and as a source of easily adaptable code.

2. Deliverables

List of Project Deliverables

<table>
<thead>
<tr>
<th>Deliverable</th>
<th>Planned Completion Date</th>
<th>Actual Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. West Coast OA Data Model Rollout</td>
<td>April 2013</td>
<td>09 April 2013</td>
</tr>
<tr>
<td>U.S. East Coast OA Data Model Rollout</td>
<td>May 2013</td>
<td>06 May 2013</td>
</tr>
<tr>
<td>U.K. OA Data Model Rollout</td>
<td>June 2013</td>
<td>24 June 2013</td>
</tr>
<tr>
<td>OA Community Group Meeting</td>
<td>Spring 2013</td>
<td>25 June 2013</td>
</tr>
<tr>
<td>Using Open Annotation Workshop</td>
<td>Extra Deliverable</td>
<td>15 July 2013</td>
</tr>
<tr>
<td>Using Open Annotation Tutorial</td>
<td>Extra Deliverable</td>
<td>22 July 2013</td>
</tr>
<tr>
<td>Open Annotation Validation Service</td>
<td>Spring 2013</td>
<td>May 2013</td>
</tr>
<tr>
<td>LoreStore &amp; Image plugins for OKFN Annotator</td>
<td>---</td>
<td>June 2013</td>
</tr>
<tr>
<td>General Purpose Video Annotation Plugin</td>
<td>Spring 2013</td>
<td>June 2013</td>
</tr>
<tr>
<td>Open Annotation Project &amp; Tool Registry</td>
<td>Summer 2013</td>
<td>August 2013 (prototype only completed)</td>
</tr>
</tbody>
</table>

Deliverables, Additional Details

- **U.S. West Coast OA Data Model Rollout (meeting notes attached):** The first of three planned rollouts was completed on 9 April 2013 at Stanford University in Stanford, California. Of 42 registered participants (not including presenters and organizers), roughly 30 were in attendance. A number of academic institutions and publishers were present, including: the California Digital Library, the California Institute of Technology, Elsevier, Stanford University, the University of California Berkeley, and Wiley.

- **U.S. East Coast OA Data Model Rollout (meeting notes attached):** The second of three planned rollouts was completed on 6 May 2013 at the University of Maryland in College Park, Maryland. Of 29 registered participants (not including presenters and organizers), roughly 25 were in attendance. A number of academic and government institutions were present, including: George Washington University, the Library of Congress, the National Endowment for the Humanities, the University of Maryland, and the University of Waterloo.
• **U.K. OA Data Model Rollout (meeting notes attached):** The final of three planned rollouts was completed on 24 June 2013 at the University of Manchester in Manchester, U.K. Of 17 registered participants (not including presenters and organizers), 14 were in attendance. A number of European academic institutions were present, including: the Free University of Berlin, Kings College London, Oxford University, and the University of Manchester.

• **Open Annotation Community Group Meeting:** In conjunction to the final rollout meeting, members of the W3C Open Annotation Community Group held a half-day meeting on 25 June at the University of Manchester. Topics discussed by the group included the status of multiplicity components of the model (i.e., oa:List, oa:Composite, and oa:Choice), the status of the oa:SemanticTag class, mapping specific portions of the model (e.g., oa:hasSource) to the Prov data model, providing further clarifications to the list of Motivations, spinning off the vocabulary for selecting segments of resources into its own independent community group (this work is highly generalizable to RDF), moving the OA data model to a W3C Working Group, the stability of the Content in RDF standard, and the status of OA’s supporting documentation (i.e., data model primer and cookbook). A number of action items emerged from the meeting, including:
  o Collecting additional simple, practical implementation examples from the OA Community for the OA Primer document.
  o Once the primer document has been completed, collect domain specific examples for the Cookbook document from the OA Community.
  o Rob will add to Appendix B of the spec that hasSource is related to but not the same as prov:specializationOf.
  o A page will be added to the wiki to collect use cases for additional selector types, e.g., QuerySelectors introduced by FilteredPush project.
  o Keep the OA multiplicity entities as they currently are. Can re-examine down the road.
  o Solicit additional opinions on rights and translation properties from the OA Community. If there is sufficient need by the Community then add in these features through a Best Practices document, e.g., by using prism:isTranslationOf and http://creativecommons.org/ns.
  o Semantic Tags and the Motivation list will remain as is. Additional opinions on these issues will be collected from the OA Community.

Full details on this meeting can be found in the meeting notes at: http://lists.w3.org/Archives/Public/public-openannotation/2013Jun/0004.html

• **Using Open Annotation Workshop & Tutorial:** In addition to the rollout meetings, members of OAC held two “Using Open Annotation” workshops/tutorials at the Digital Humanities 2013 conference\(^1\) and the Joint Conference on Digital Libraries 2013\(^2\). These presentations were formatted as mini-rollouts and introduced the audience members to the core features of the Open Annotation data model, working implementations of the data model, and developer resources.

• **Open Annotation validation service:** The Queensland-based members of OAC implemented an annotation validation service\(^3\) as an extension to their LoreStore\(^4\) annotation repository. As shown in Figure 1, the validation service allows developers to simply paste an annotation into a web form and then reports which OA data model rules apply to it, validates success or failure on a rule-by-rule

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\(^1\) [http://dh2013.unl.edu/](http://dh2013.unl.edu/)
\(^3\) [http://austese.net/lorestore/validate.html](http://austese.net/lorestore/validate.html)
\(^4\) [http://austese.net/lorestore/](http://austese.net/lorestore/)
basis, and provides warnings where the annotation varies from best practice. Developers can submit annotations in the JSON-LD, RDF/XML, TriX, Turtle, and TriG formats.

Figure 1: Open Annotation Validation Service

- **Added Deliverable -- LoreStore & image plugins for OKFN Annotator.** The success of the LoreStore-based Open Annotation Validation Service in combination with the independent creation and release of the open-source Open Knowledge Foundation (OKFN) Annotator tool provided a unique opportunity to create an OA plug-in to integrate the tools. Accordingly Queensland researchers were tasked to provide an Annotator plugin that could store annotations created by Annotator as OA-conformant RDF in LoreStore and could serve these annotations back to Annotator for display. To enlarge the utility of Annotator, Queensland researchers also created a plug-in that allowed Annotator to be used to create and display annotations of images.

- **Video Annotation Plugin:** OAC team members based at the University of Maryland built a version of their video annotation plugin compatible with Drupal. The plugin was used as an exemplar implementation and was initially presented at the U.S. East Coast OA Data Model Rollout meeting. The code for the plugin is available from the Maryland Institute for Technology in the Humanities (MITH) via their GitHub code share\(^5\).

- **Open Annotation tool & project registry:** The Illinois-based members of the OAC team developed a prototype OA tool and service registry. Designed in a similar manner to the OAI-PMH Data

\(^5\) [https://github.com/umd-mith/OACVideoAnnotator](https://github.com/umd-mith/OACVideoAnnotator)
Provider Registry based at the University of Illinois at Urbana-Champaign ⁶, the Open Annotation Registry prototype includes a custom relational database and user interface via which developers and annotators can share data about their annotation projects, software being developed, implementations of OA-compliant annotation tools, and sample annotations with other members of the OA community. Response to the OA Registry prototype was tepid. We determined that it was premature to release a full public version of the OA Registry at this time. Illinois on its own anticipates releasing the OA Registry in 2014, assuming current proposals in the works for a W3C Annotation Working Group within the W3C Digital Publishing Area go forward.

3. Accomplishments

Summary

As detailed above, the Open Annotation rollout meetings successfully brought together digital humanities computing developers, publishers, and other annotation stakeholders and introduced the Open Annotation data model to them. The OAC developed and launched tools and services (described above under Deliverables) designed to further facilitate widespread adoption of the Open Annotation data model.

In addition to deliverables listed, OAC team members presented the OA data model in the following venues:

- iAnnotate 2013 Workshop⁷ (San Francisco, CA, 10-12 April)
- ACM Web Science 2013 Conference⁸ (Paris, France, 2-4 May)
- DARIAH-DE Expert Workshop on Interoperable Annotations for the Humanities⁹ (Berlin, 18 June)
- OAI8: CERN Workshop on Innovations on Scholarly Communication¹⁰ (Geneva, 19-21 June)
- LODLAM summit 2013¹¹ (Montreal, Quebec, Canada, 19-20 June)
- Balisage 2013¹² (Montreal, Quebec, Canada, 6-9 August)

4. Challenges

The project experienced no significant challenges during the course of its one year performance period.

5. Project Personnel

Staffing at participating institutions throughout the project was consistent with proposal:

<table>
<thead>
<tr>
<th>University of Illinois at UC</th>
<th>Los Alamos National Laboratory</th>
<th>University of Maryland</th>
<th>The University of Queensland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Cole (PI)</td>
<td>Herbert Van de Sompel (PI)</td>
<td>James Smith (PI)</td>
<td>Jane Hunter (PI)</td>
</tr>
<tr>
<td>Tom Habing</td>
<td>Rob Sanderson</td>
<td>Jennifer Guiliano</td>
<td>Anna Gerber</td>
</tr>
<tr>
<td>Jacob Jett</td>
<td></td>
<td>Trevor Munoz</td>
<td></td>
</tr>
<tr>
<td>Jordan Vannoy</td>
<td></td>
<td>Raffaele Vigliante</td>
<td></td>
</tr>
</tbody>
</table>

⁶ http://gita.grainger.uiuc.edu/registry/
⁷ http://iannotate.org/
⁸ http://www.websci13.org/
⁹ https://portal-de.dariah.eu/web/guest/experten-workshops
¹⁰ http://indico.cern.ch/conferenceDisplay.py?confId=211600
¹¹ http://summit2013.lodlam.net/
¹² http://www.balisage.net/
6. Dissemination of Results

Publications, Presentations & Tutorials


7. Intellectual Property

All deliverables have been released under Creative Commons license. All prototype tools and software developed as part of this project are made available under royalty-free open source license.

8. Future Plans

As the performance period for the OAC III project was coming to a close members of the OAC team members remain engaged in active discussions with other members of the W3C OA Community Group, related initiatives (e.g., BibFrame and JSON-LD) and with W3C staff. Individual members of the Open Annotation Collaboration are now involved in a number of active and prospective research projects involving the application of OA and funded by a variety of sponsors. (e.g., Shared Canvass, Emblematica Online, the Shelly-Goodwin Archive, Australian Electronic Scholarly Editing). OAC team members are also in discussions about strategies to transition the work of the W3C OA Community Group into a new W3C Annotation Working Group within the W3C Digital Publishing Activity; this would allow (for example) further work on implementations of OA in the context of scholarly and commercial publishing.

9. Financial Narrative

The signed Project Financial Report is attached. Significantly ($27,733) less money was required to support non-UIUC travel for rollouts and other dissemination activities. This was accomplished through efficient use of travel dollars (e.g., combining trips) and through a greater role for UIUC staff in these activities (due to better availability). Accordingly UIUC travel expenses were greater than budgeted ($7,777).

With regard to salary / benefits and sub-awards, the scope of work at Queensland was expanded ($12,121) in order to create and disseminate OKFN Annotator plugins described above. On the other side of the ledger the decision not to implement a public production version of the OA Registry contributed to a small underspend in staff resources by Illinois ($2,841). Maryland staffing was underspent relative to budget by $565.

In sum, we spent $11,214 less than budgeted. Combined with interest earned this resulted in a refund to the Foundation of $11,225.
Disclaimer: While the analyses presented in this report are based on research funded by the Andrew W. Mellon Foundation, any opinions, findings, and conclusions or recommendations expressed in this publication are those of the authors and do not necessarily reflect the views of the Foundation.

April 2013 U.S. West Coast Open Annotation Rollout Meeting Report
THE OPEN ANNOTATION COLLABORATION PHASE III:
ADOPTION, COMMUNITY & INFRASTRUCTURE
Research grant provided by the Andrew W. Mellon Foundation

Principle Investigators
Timothy W. Cole, University of Illinois at Urbana-Champaign
Jane Hunter, The University of Queensland
James Smith, University of Maryland
Herbert Van de Sompel, Los Alamos National Laboratory

Additional Investigators
Anna Gerber, The University of Queensland
Robert Sanderson, Los Alamos National Laboratory

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Digital Library Research Laboratory
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Urbana, IL 61801

University of Illinois at Urbana-Champaign
August 2013

Project Website: http://www.openannotation.org/
Summary

On April 9, 2013, the Open Annotation Collaboration (OAC) project held a one day workshop at the Frances C. Arrillaga Alumni Center at Stanford University in Stanford, California. The purpose of this workshop was to bring together scholars, librarians, and systems designers involved in ongoing digital content projects using or planning to implement annotation tools and services in order to educate them about the Open Annotation data model, the Open Annotation Community Group, and resources they can use when building their own implementations of annotation software clients.

Roughly 30 of the 42 registered participants (see Appendix A) were in attendance. The participants hailed from a variety of academic institutions and corporations. Among the institutions and corporations present were representatives from the California Digital Library, the California Institute of Technology, Elsevier, Stanford University, the University of California Berkeley and Wiley.

The primary goals of the rollout meeting were:

1. Introducing the meeting audience to the OA Data Model & Ontology, and
2. Showcasing existing implementations of the OA specification.

The data model was presented by OA Community co-chairs, Rob Sanderson and Paolo Ciccarese through a series of three presentations that focused on Core Features, Specific Resources & Specifiers, and Multiplicity & Serialization respectively. These three presentations were interspersed with implementer presentations.

Implementations showcased at the rollout included: Stanford’s Shared Canvas\(^1\) project, the OA Plugin\(^2\) Brown University developed for Fedora Repositories, the Harvard-based Filtered Push\(^3\) project, the AustESE\(^4\) & Scholarly Editions\(^5\) work at the University of Queensland, and the MapHub\(^6\) work carried out by Cornell University.

The presentations were well received and audience members engaged the presenters with both general and specific questions about how the model is and can be implemented. The audience members suggested that the remaining rollouts could probably be improved by additional opportunities for audience interactions, such as through audience member lightning talks or a brief use case discussion.

\(^1\) http://www.shared-canvas.org/
\(^2\) http://brown-university-library.github.io/oac_web_service/
\(^3\) http://wiki.filteredpush.org/wiki/
\(^4\) http://austese.net/lorestore/
\(^5\) http://uq-eresearch.github.io/AustESE/
\(^6\) http://maphub.github.io/
Appendix A: Rollout Meeting Registrant List

- Vijoy Abraham, Academic Technology Specialist, Stanford University
- Peter Brantley, Director of Scholarly Communications, Hypothes.is
- Chris Catterton, Entrepreneur
- Zach Chandler, Web Strategist, Stanford University
- Tony Chen, Peer Library
- Neil Christensen, Director of Business Development, Wiley
- Catherine Coleman, Stanford Humanities Center, Stanford University
- Ron Daniel, Disruptive Technology Director, Elsevier
- Kim Durante, Metadata Analyst, Stanford University
- Glynn Edwards, Head, Technical Services - Special Collections, Stanford University
- Ronnie Fields, User Services Technology Manager, Stanford University
- Gary Geisler, Digital Library Software Engineer, Stanford University
- Yonatan Goraly, Software Architect, eGain Communications
- Sam Hahn, VP of Engineering & Technology, eGain Communications
- Jake Hartnell, Graduate Student, University of California Berkeley
- Jacqueline Hettle, Digital Humanities Developer, Stanford University
- Eric Jin, Developer, NZ IRD
- Kris Kasianovitz, Government Information Librarian, Stanford University
- Laura Krier, Metadata Analyst, California Digital Library
- Tiffany Lieuw, Academic Technology Specialist, Stanford University
- Henry Lowood, Curator, Stanford University
- Peter Mangiafico, Product Manager, Stanford University
- Tim McCormick, Consultant, mediaX at Stanford University
- Jarom McDonald, Associate Research Professor, Office of Digital Humanities, Brigham Young University
- Mark Mudge, President, Cultural Heritage Imaging
- Ron Nakao, Data & Technology Specialist, Stanford University
- Tony Navarrete, Digital Library Services Manager, Stanford University
- Rodrigo Ochigame, Student, University of California Berkeley
- Azim Ozakil, Independent Developer
- Jack Park, Developer, TopicQuests
- Wade Ren, Co-Founder, Diigo.com
- Carla Schroer, Director, Cultural Heritage Imaging
- John Schutt, Founder, Margin Scratch
- Laura Smart, Metadata Services Manager, California Institute of Technology
- Joakim Soderberg, Samsung
- Kathryn Stine, Metadata Analyst, California Digital Library
- Tim Stutt, Graduate Student, University of California Berkeley
- Mi Tar, Graduate Student, University of California Berkeley
- Andrew Wasklewicz, CEO & Principal Solutions Architect, Entwine
- Jesse Wiley, Digital & New Business Initiatives, Wiley
- Laura Williams, Project Archivist, Stanford University
- Glen Worthey, Digital Humanities Librarian, Stanford University
Appendix B: Workshop Agenda

Tuesday – 09 April 2013

8:30 AM Welcome & Agenda (Tim Cole)
8:45 AM Data Model Overview & Introduction - Core Features (Rob Sanderson & Paolo Ciccarese)
9:45 AM Implementers Showcase 1
   • Shared Canvas (Tom Cramer)
   • Fedora Plugins (Andy Ashton)
10:45 AM break
11:00 AM Data Model - Specifiers & Specific Resource Module (Rob Sanderson & Paolo Ciccarese)
12:00 PM lunch - provided
   • Demo 1: Simple Image Annotation
1:15 PM Reconvene (Tim Cole)
1:30 PM Implementers Showcase 2
   • Filtered Push (Bob Morris)
   • Scholarly Editions (Anna Gerber)
2:30 PM Data Model - Multiplicity Constructs & Publishing (Rob Sanderson & Paolo Ciccarese)
3:15 PM break
   • Demo 2: Importing Tags & Notes from Flickr
3:30 PM Implementers Showcase 3
   • Hypothes.is (Dan Whaley) CANCELLED
   • MapHub (Bernhard Haslhofer)
4:30 PM Wrap Up
5:00 PM Adjourn
Disclaimer: While the analyses presented in this report are based on research funded by the Andrew W. Mellon Foundation, any opinions, findings, and conclusions or recommendations expressed in this publication are those of the authors and do not necessarily reflect the views of the Foundation.

May 2013 U.S. East Coast Open Annotation Rollout Meeting Report
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University of Illinois at Urbana-Champaign
August 2013

Project Website: http://www.openannotation.org/
Summary

On May 6, 2013, the Open Annotation Collaboration (OAC) project held a one day workshop at the McKeldin Library at the University of Maryland in College Park, Maryland. The purpose of this workshop was to bring together scholars, librarians, and systems designers involved in ongoing digital content projects using or planning to implement annotation tools and services in order to educate them about the Open Annotation data model, the Open Annotation Community Group, and resources they can use when building their own implementations of annotation software clients.

Roughly 25 of the 29 registered participants (see Appendix A) were in attendance. The participants hailed from a variety of academic institutions and non-profit organizations. Among the institutions present were representatives from George Washington University, the Library of Congress, the National Endowment for the Humanities, the University of Maryland, and the University of Waterloo.

The primary goals of the rollout meeting were:

1. Introducing the meeting audience to the OA Data Model & Ontology, and
2. Showcasing existing implementations of the OA specification.

The data model was presented by OA Community co-chairs, Rob Sanderson and Paolo Ciccarese through a series of three presentations that focused on Core Features, Specific Resources & Specifiers, and Multiplicity & Serialization respectively. These three presentations were interspersed with implementer presentations.

Implementations showcased at the rollout included: the Shared Canvas\(^1\) work taking place at Drew University, the OA Plugin\(^2\) Brown University developed for Fedora Repositories, the Domeo\(^3\) annotation toolkit developed by MIND Informatics, the Harvard-based Filtered Push\(^4\) project, and video annotation work\(^5\) taking place at MITH. The MapHub\(^6\) work carried out by Cornell University was presented through video presentations. In addition to these implementations, the audience was introduce to the LoreStore annotation repository and validation service developed by The University of Queensland and to ongoing annotation tool and project registry work going on at Illinois. Both of these services are intended to facilitate implementation of the OA model.

\(^1\) [http://dm.drew.edu/dmproject/](http://dm.drew.edu/dmproject/)
\(^3\) [http://swan.mindinformatics.org/](http://swan.mindinformatics.org/)
\(^5\) [https://github.com/umd-mith/OACVideoAnnotator](https://github.com/umd-mith/OACVideoAnnotator)
\(^6\) [http://maphub.github.io/](http://maphub.github.io/)
The presentations were well received and audience members engaged the presenters with both general and specific questions about how the model is and can be implemented. There was a great deal of discussion surrounding FRBR entities and semantic tagging where it was noted that only FRBR level items and manifestations typically have URIs, which makes annotating at the FRBR expression and work level very difficult.
Appendix A: Rollout Meeting Registrant List

- **Erik Blankinship**, CTO, Media Modifications
- **Perry Collins**, Program Officer, National Endowment for the Humanities
- **Robin Dasler**, Engineering/Research Data Librarian, University of Maryland
- **Ray Denenberg**, Vice President for Player Development, Library of Congress
- **Neil Fraistat**, Professor of English and Director, MITH, University of Maryland
- **William Garr**, Assistant Director of Research & Development, Georgetown University
- **Eliza Griscom**
- **Karen Griscom**, Assistant Professor, Community College of Rhode Island
- **Dean Irvine**, Associate Professor, Department of English, Dalhousie University
- **Diane Jakacki**, Marion L. Brittain Postdoctoral Fellow, Georgia Tech
- **Joel Kalvesmaki**, Editor in Byzantine Studies, Dumbarton Oaks
- **Jennie Knies**, Manager, Digital Stewardship, University of Maryland
- **Peter Mallios**, Associate Professor of English, University of Maryland
- **John Martinez**, Archives Specialist, Nations Archives
- **Christine McWebb**, Director, Academic Programs, University of Waterloo - Stratford Campus
- **Erik Mitchell**, Assistant Professor, College of Information Studies, University of Maryland
- **Lisa Rhody**, Project Manager, RRCHNM
- **Marie Selvanadin**, Senior Web Developer, Georgetown University
- **John Schalow**, Special Collections Cataloger, University of Maryland
- **Amalia Skarlatou Levi**, PhD Student, iSchool, University of Maryland
- **Jerry Simmons**, Archives Specialist for Data Standards, National Archives
- **Michael Sohn**, Web Developer, Dumbarton Oaks
- **Arlin Stoltzfus**, Research Biologist, NIST, IBBR
- **Ed Summers**, Information Technology Specialist, Library of Congress
- **Raffaele Viglianti**, Research Programmer, University of Maryland
- **Jing Wang**, Library Digital Programs / Digital Research and Curation Center, John Hopkins University
- **Joshua Westgard**, Digital Stewardship Graduate Assistant, University of Maryland
- **Thomas Whittaker**, Metadata Librarian, University of Maryland
- **Kristin Williams**, Public Services & Collections Specialist, George Washington University
Appendix B: Workshop Agenda

Monday – 06 May 2013

8:30 AM       Welcome & Agenda (Tim Cole)
8:45 AM       Data Model Overview & Introduction - Core Features (Rob Sanderson)
9:30 AM       Audience Introductions
10:00 AM      Implementers Showcase 1
  •   Shared Canvas (Shannon Bradshaw)
  •   MapHub (Bernhard Haslhofer, via video)
  •   Fedora Plugins (Andy Ashton)
11:15 AM      break
11:30 AM      Developer Resources
  •   Tools & Project Registry (Tom Habing)
  •   LoreStore & OA Validator (Anna Gerber, via video)
  •   OA & Image plugins for Annotator (Tim Cole)
12:00 PM      Data Model - Specifiers & Specific Resource Module (Paolo Ciccarese)
12:30 PM      lunch - provided
1:30 PM       Implementers Showcase 2
  •   3 Round Stones (David Wood) CANCELLED
  •   Domeo & Domeo Demo (Paolo Ciccarese)
  •   Filtered Push (Bob Morris)
2:45 PM       Data Model - Multiplicity Constructs & Publishing (Rob Sanderson)
3:15 PM       break
3:30 PM       Implementers Showcase 3
  •   FinalsClub.org (Andrew Magliozi) CANCELLED
  •   Capturing Flickr Notes & Tags (Tim Cole)
  •   Video Annotation (Jim Smith)
4:30 PM       Wrap Up
5:00 PM       Adjourn
June 2013 U.K. Open Annotation Rollout Meeting Report
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Research grant provided by the Andrew W. Mellon Foundation

Summary

On June 24, 2013, the Open Annotation Collaboration (OAC) project held a one day workshop at the University of Manchester in Manchester, U.K. The purpose of this workshop was to bring together scholars, librarians, and systems designers involved in ongoing digital content projects using or planning to implement annotation tools and services in order to educate them about the Open Annotation data model, the Open Annotation Community Group, and resources they can use when building their own implementations of annotation software clients.

Fourteen of the seventeen registered participants (see Appendix A) were in attendance. The participants hailed from a variety of academic institutions. Among the institutions present were representatives from the Free University of Berlin, Kings College London, Oxford University, and the University of Manchester.

The primary goals of the rollout meeting were:

1. Introducing the meeting audience to the OA Data Model & Ontology, and
2. Showcasing existing implementations of the OA specification.

The data model was presented by OA Community co-chairs, Rob Sanderson and Paolo Ciccarese through a series of three presentations that focused on Core Features, Specific Resources & Specifiers, and Multiplicity & Serialization respectively. These three presentations were interspersed with implementer presentations.

Implementations showcased at the rollout included: the AustESE1 & Scholarly Editions2 work at The University of Queensland, the Shared Canvas3 work based at Stanford University, the Open Knowledge Foundation’s Annotator4, the Workflow4Ever5 project at the University of Manchester, the Domeo6 annotation toolkit developed by MIND Informatics, the Harvard-based Filtered Push7 project, and video annotation work8 taking place at MITH. The MapHub9 work carried out by Cornell University was presented through video presentations. In addition to these implementations, the audience was introduced to the LoreStore annotation repository and validation service developed by The University of Queensland and to ongoing annotation tool and project registry work going on at Illinois. Both of these

1 http://austese.net/lorestore/
2 http://uq-eresearch.github.io/AustESE/
3 http://www.shared-canvas.org/
4 http://okfnlabs.org/annotator/
5 http://www wf4ever-project.org/
6 http://swan.mindinformatics.org/
7 http://wiki.filteredpush.org/wiki/
8 https://github.com/umd-mith/OACVideoAnnotator
9 http://maphub.github.io/
services are intended to facilitate implementation of the OA model. Finally, audience member Lutz Suhrbier volunteered to present to the assembled group the Berlin-based AnnoSys\textsuperscript{10}, an annotation system for biodiversity data being developed at the Free University of Berlin.

The presentations were well received and audience members engaged the presenters with both general and specific questions about how the model is and can be implemented. Through Lutz’s presentation the topic of multiplicity within the data model was brought up and discussed by the assembled group. The multiplicity semantics for the AnnoSys use case demonstrated that there are lingering unresolved issues surrounding the best practices for using multiple bodies and targets within the OA data model.

\textsuperscript{10} \url{http://wiki.bgmb.org/annosys/index.php/Main_Page}
Appendix A: Rollout Meeting Registrant List

- **Thibault Clerice**, Research Developer, Kings College London
- **Jill Gravestock**, Database Administrator, Oxford University
- **Tanya Gray**, Digital Engineer, Oxford University
- **Colin Greenstreet**, Project Leader, MarineLives Project
- **Alex Henderson**, Research Scientist, University of Manchester
- **Leif Isaksen**, Lecturer, University of Southampton
- **Philip Kershaw**, CEDA EO Technical Manager, STFC Rutherford Appleton Laboratory
- **Jee-Hyub Kim**, Text Miner, EMBL-EBI
- **Tiziana Mancinelli**, Student, University of Reading
- **James Marsh**, Research Fellow, University of Manchester
- **Ian Mulvany**, Head of Technology, eLife Sciences
- **Adam Saltiel**, MD, Configuration Science
- **David Shotton**, Research Group Leader, University of Oxford
- **David Stuart**, Research Fellow, King's College London
- **Lutz Suhrbier**, Research Assistant, Free University of Berlin
- **Adam Wyner**, Lecturer, University of Aberdeen
- **Weigang Yan**, Data Scientist and Ecoinformatician, Center for Ecology and Hydrology
Appendix B: Workshop Agenda

Monday – 06 May 2013

8:30 AM Welcome & Agenda (Tim Clark)
8:45 AM Data Model Overview & Introduction (Rob Sanderson)
9:30 AM Audience Introductions
10:00 AM [break]
10:15 AM Implementers Showcase
   • Scholarly Editions (Anna Gerber)
   • MapHub (Bernhard Haslhofer, via video)
   • Shared Canvas (Rob Sanderson)
11:30 PM Data Model Tutorial - Specifiers & Specific Resources (Paolo Ciccarese)
12:00 Noon [lunch] - provided
1:00 PM Developer Resources
   • OKF Annotator & Demo (Nick Stenning)
   • LoreStore, OA Plugins for Annotator & OA Validator (Anna Gerber)
   • Tools & Project Registry (Jacob Jett)
2:00 PM Implementers Showcase
   • Workflow4Ever (Sean Bechhofer)
   • Domeo & Domeo Demo (Paolo Ciccarese)
3:00 PM Data Model Tutorial - Multiplicity Constructs & Publishing (Rob Sanderson)
3:30 PM [break]
3:45 PM Implementers Showcase
   • Filtered Push (Bob Morris)
   • AnnoSys (Lutz Suhrbier)
   • Capturing Flickr Notes & Tags (Jacob Jett)
   • Video Annotation (Jim Smith)
5:00 PM Adjourn