JSMF Workshop on Plug-and-Play Macrosopes

Date
November 16-17, 2012

Meeting Place
School of Library and Information Science, Indiana University
1320 E. 10th St., Wells Library, Room LI 030
Bloomington, IN 47405

Wells Library Access Information »
Indiana University Campus Map »

Organizer
Katy Börner
Victor H. Yngve Professor of Information Science, School of Library and Information Science, Indiana University, Bloomington; Director, Cyberinfrastructure for Network Science Center; Curator, Places & Spaces: Mapping Science exhibit, katty@indiana.edu

Chin Hua Kong
Systems Architect/Project Manager, Cyberinfrastructure for Network Science Center
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Dec 1 & 2, 2005: Mapping Science
Workshop at Thomson Scientific, Philadelphia, PA.
April 4, 2006: **Mapping Science**  
*Workshop at the New York Academy of Science, New York City, NY.*

May 21, 2006: **Modeling Science**  
*Workshop at Indiana University, Bloomington, IN.*
May 29 & 30, 2006: Integrating Semantic and Linkage-Based Data Mining Approaches
Albert Mons & Marc Weber, Knewco visit our Lab/Center.

August 30 & 31, 2006: Scholarly Data and Data Integration Workshop
at Indiana University, Bloomington, IN.
Oct 25 & 26, 2006: **Science (Weather) Forecast Workshop**  
at New York Hall of Science, NY.

March 10 & 11, 2008: **Knowledge Management and Visualization Tools in Support of Discovery (I)**  
NSF Workshop at NSF, Washington D.C.
April 7 & 8, 2008: **Knowledge Management and Visualization Tools in Support of Discovery (II)**
NSF Workshop at New York Hall of Science, NY.

June 17/18, 2009: **Mapping the History and Philosophy of Science**
NSF/JSMF Workshop at IU, Bloomington, IN.
October 1-2, 2009: *How to Measure, Map, and Dramatize Science*
NSF/JSMF Workshop at New York Hall of Science, NY.

March 4-5, 2010: *Mapping of Science and Semantic Web*
NSF Workshop in Bloomington, IN.
March 18-19, 2010: Identifiers and Disambiguation in Scholarly Work
NIH Workshop in Gainesville, FL.

Oct 8-9, 2010: Modeling Knowledge Dynamics
JSMF/COST Workshop Amsterdam, The Netherlands.
Dec 1, 2010: **Mapping the Structure and Evolution of Sustainability Science**
NSF Workshop at AAAS Headquarters in Washington, D.C.

March 21, 2011: **Modeling and Mapping Science**
JMFS Workshop in Bloomington, IN.
March 25-16, 2011: **Value Added Services for VIVO**
NIH Workshop in Bloomington, IN.

Aug 11-12, 2011: **Standards for Science Metrics, Classifications, and Mapping**
JSMF Workshop in Bloomington, IN.
Oct 17-18, 2011: **Artists Envision Science & Technology**
JSMF Workshop at the National Science Foundation, Arlington, VA.

Nov 17-18, 2011: **Science Maps in Education**
JSMF Workshop in Bloomington, IN.
**Workshop Goals**

The workshop brings together system architects from major tool development efforts - analogous to
http://vw.indiana.edu/ivsi2004/
https://nwb.slis.indiana.edu/events/ivsi2007/

Key goals comprise the

- identification of core system architectures that support modular software development and scale to BIG data;
- exchange of know-how but also plugins,
- discussion of planned work to align (and not duplicate) efforts,
- possibly joint funding applications.

http://scimaps.org/meeting/121116

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**Agenda**

**Friday November 16, 2012**

**Room: LIF 030**

12:00pm  Welcome by Organizers (Katy Börner & Chin Hua Kong)

1:00pm  General Introduction by Participants (5 mins each)

2:00pm  Social Networking Break

2:30pm  Overview Talks (15-20 mins plus 5 mins discussion each)

- Learn about tools’ goals, architectural design decisions, and challenges
- MacroScope Needs and Desires by Katy Börner
- Cytoscape and GeneMANIA by Jason Montojo, Canada
- Stencil: A Declarative, Generative System for Visualizing Dynamic Data by Joseph A. Cottam, Center For Research in Extreme Scale Technologies (CREST), IUB
- HUBzero middleware and the Raprun toolkit by Michael McLennan, Director, HUBzero® Platform for Scientific Collaboration, Purdue University
- TBD by Pavel Anaschenko, Megaputer Intelligence

4:30pm  Social Networking Break

5:00pm  Discussion of Opportunities and Challenges

- Plugin architectures that use Grid/Cloud/Supercomputer environments
- Analysis workflows for big data
- Visualizing big data
- Re-runable workflows in support of parameter sweeps and replication
- How to best coordinate development efforts

6:20pm  Briefing about Hackathon

6:30pm  Joint dinner
Saturday, November 17, 2012
8:00am  Breakfast
8:30am  CIShell / Sci2: Development Setup
9:00am  CIShell / Sci2: Hello World Plugin Guide
9:45am  Hackathon Session 1: Form Teams and Brainstorm
10:15am Social Networking Break
10:45am Hackathon Session 2: Implementing a CIShell Plugin
1:00pm  Joint Lunch
1:30pm  Showcase Hackathon Results
2:30pm  Social Networking Break
2:45pm  Collaboration Opportunities
4:00pm  Adjourn