



JSMF Workshop on Plug-and-Play Microscopes

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, katy@indiana.edu
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Chin Hua Kong

Systems Architect/Project Manager, Cyberinfrastructure for Network Science Center
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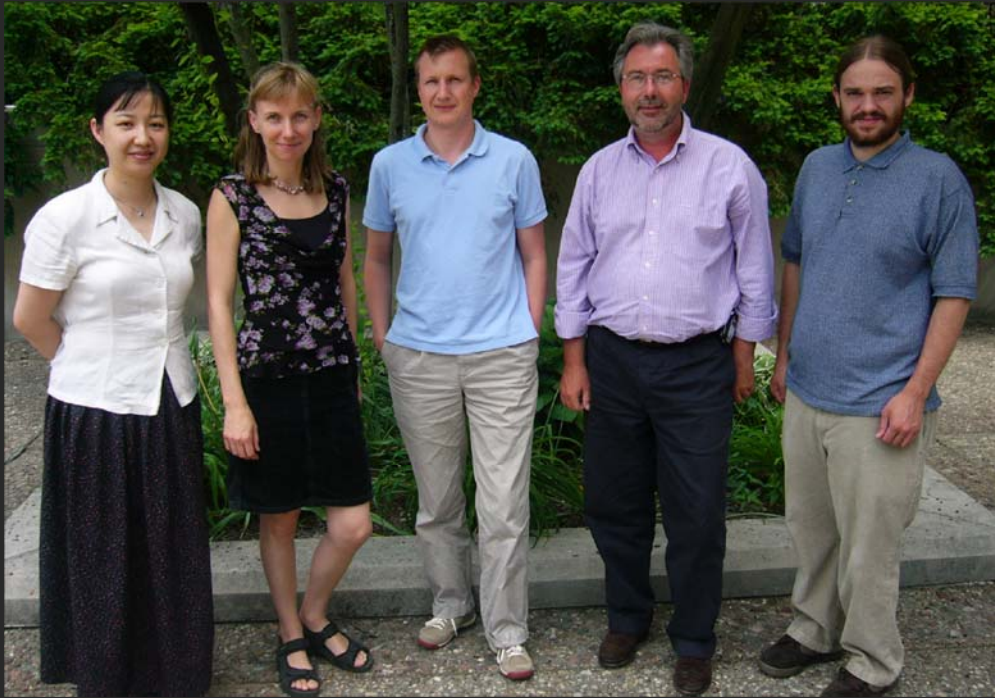
Dec 1 & 2, 2005: *Mapping Science* Workshop at Thomson Scientific, Philadelphia, PA.



*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.*





*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>

Agenda

Friday November 16, 2012

Room: LI 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
- Macroscopic 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 Rapture 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-runnable 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*