

## International Seminar on Network Theory - Los Angeles



Image links to full description.

The themes of the four sessions were:

1. Network Theory: Conceptual and Methodological Issues
2. The Inclusionary/Exclusionary Logic of Networks
3. The Semantic Web
4. Network Theories of Power

**Katy Börner**, SLIS Professor and the Director of the **Cyberinfrastructure for Network Science Center** presented at talk at the event. She also gave a presentation and exhibit tour of the **Places & Spaces: Mapping Science** exhibit.

SLIS students interested in these research topics can learn about Börner's work in the biographical summary notes below.

### Network Theory Seminar Participant Biographies:

"**Katy Börner** is the Victor H. Yngve Professor of Information Science at the School of Library and Information Science, Adjunct Professor in the School of Informatics and Computing, Adjunct Professor at the Department of Statistics in the College of Arts and Sciences, Core Faculty of Cognitive Science, Research Affiliate of the Biocomplexity Institute, Fellow of the Center for Research on Learning and Technology, Member of the Advanced Visualization Laboratory, and Founding Director of the Cyberinfrastructure for Network Science Center at Indiana University. She is a curator of the Places & Spaces: Mapping Science exhibit, <http://scimaps.org>.

Her research focuses on the development of data analysis and visualization techniques for information access, understanding, and management. She is particularly interested in the study of the structure and evolution of scientific disciplines; the analysis and visualization of online activity; and the development of cyberinfrastructures for large scale scientific collaboration and computation.

She is the co-editor of the Springer book on 'Visual Interfaces to Digital Libraries' and of a special issue of PNAS 101 (Suppl. 1) on 'Mapping Knowledge Domains' published in April 2004. She also co-edited a special issue on 'Collaborative Information Visualization Environments' in *PRESENCE: Teleoperators and Virtual Environments*, MIT Press (Feb. 2005), 'Information Visualization Interfaces for Retrieval and Analysis' in the *Journal of Digital Libraries* (March 2005), and 'Mapping Humanity's Knowledge' in *Environment and Planning B* (Sept 2007).

Her new book 'Atlas of Science: Guiding the Navigation and Management of Scholarly Knowledge' published by MIT Press will become available in 2010.

The themes of the four sessions were:

- She and her colleagues at the Cyberinfrastructure for Network Science Center serve the
  - Scholarly Database of 23 million scholarly records, <http://sdb.slis.indiana.edu>
  - Information Visualization Cyberinfrastructure, <http://iv.slis.indiana.edu>
  - Network Workbench Tool and Community Wiki, <http://nwb.slis.indiana.edu>
  - Science of Science Cyberinfrastructure Portal, <http://sci.slis.indiana.edu>
  - Epidemics Marketplace, <http://epic.slis.indiana.edu>

She is the recipient of many fellowships and awards, including Outstanding Junior Faculty Award, Pervasive Technology Laboratories Fellowship, SBC Fellow, NSF Award, and Trustees Teaching Award. She is currently PI or Co-PI in funded research: *Collaborative Research: Social Networking Tools to Enable Collaboration in the Tobacco Surveillance, Epidemiology, and Evaluation Network* (NSF), *Modeling the Structure and Evolution of Scholarly Knowledge* (James S. McDonnell Foundation), *CAREER: Visualizing Knowledge Domains* (NSF), *Mapping Indiana's Intellectual Space* (21st Century Grant), *Network Workbench: A Large-Scale Network Analysis, Modeling and Visualization Toolkit for Biomedical, Social Science and Physics Research* (NSF), *Towards a Macroscopic for Science Policy Decision Making* (NSF), and *Creative*

*Metaphors to Stimulate New Approaches to Visualizing, Understanding, and Rethinking Large Repositories of Scholarly Data (NSF)."*

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