

SLIS Faculty News

Börner - Science Information Talks in Germany and the Netherlands



Are you interested in seeing science from above? Curious to see what impact one single person or invention can have? Keen to find pockets of innovation? [talk announcement]

January 2008 international meetings for SLIS faculty member **Katy Börner** include presentations in the Netherlands and Germany. She will present at *Scopus*, the *Heraeus Foundation*, the *Rathenau Institute*, and at the *Virtual Knowledge Studio*.

January 18 — Meeting at *Scopus* in Amsterdam.

"Scopus is the largest abstract and citation database of peer-reviewed literature and quality web sources with smart tools to track, analyze and visualize research. Scopus is designed and developed with over 500 users and librarians internationally. Updated daily, it includes the abstracts and references of 15,000 peer-reviewed journals from more than 4,000 international publishers, ensuring broad interdisciplinary coverage."

[[Elsevier Website](#)]

January 20-23 — Invited talk at Evolution and Physics - Concepts, Models and Applications, Interdisciplinary Seminar of the **Heraeus Foundation**, Bad Honnef, Germany.

"The Wilhelm and Else Heraeus foundation is a private institution which supports research and education in science, especially in physics. Among German physicists the foundation is recognized as the most important private funding institution in their field. The foundation regularly offers seminars to a limited number of participants from universities, research institutes and industry. The topics of the meetings cover the whole range of research in physics and its neighboring disciplines. Emphasis is put on lively discussion." [summary from the 342nd seminar in 2005]

Mapping the Evolution of Science - (Börner's Talk abstract)

Cartographic maps of physical places have guided mankind's explorations for centuries. They enabled the discovery of new worlds while also marking territories inhabited by unknown monsters.

Domain maps of abstract semantic spaces (Boerner et al 2003, Shiffrin & Boerner 2004) and <http://scimaps.org/> aim to serve today's explorers understanding and navigating the world of science. These maps are generated through scientific analysis of large-scale scholarly datasets in an effort to connect and make sense of the bits and pieces of knowledge they contain. They can be used to objectively identify major research areas, experts, institutions, collections, grants, papers, journals, and ideas in a domain of interest. Local maps provide overviews of a specific area: its homogeneity, import-export factors, and relative speed. They allow one to track the emergence, evolution, and disappearance of topics and help to identify the most promising areas of research. Global maps show the overall structure and evolution of our collective scholarly knowledge.

References:

Boerner K., Chen C., Boyack K. 2003. Visualizing Knowledge Domains. In Annual Review of Information Science & Technology, ed. B Cronin, pp. 179-255. Medford, NJ: Information Today, Inc./American Society for Information Science and Technology.

Shiffrin R.M., Boerner K., eds. 2004. Mapping Knowledge Domains, Vol. 101 (Suppl. 1): PNAS.

January 24 — Talk at **Rathenau Institute**, Den Haag, Germany.

"The Rathenau Institute is an independent organization that concerns itself with issues on the interface between science, technology and society, and that provides politicians with timely and well-considered information. The Institute was founded in 1986, and currently has some 45 staff." [institute website]

January 25 — Lecture at **Virtual Knowledge Studio**, Amsterdam

"The Virtual Knowledge Studio supports researchers in the humanities and social sciences in the Netherlands in the creation of new scholarly practices and in their reflection on e-research in relation to their fields. A core feature of the Virtual Knowledge Studio is the integration of design and analysis in a close cooperation between social scientists, humanities researchers, information technology experts and information scientists. This integrated approach provides insight in the way e-research can contribute to new research questions and methods." [website]

Science from Above - (Börner's Talk announcement)

Are you interested in seeing science from above? Curious to see what impact one single person or invention can have? Keen to find pockets of innovation? Desperate for better tools to manage the information flood? Or are you simply fascinated by maps? Then join the talk by Dr. Katy Börner on Friday, January 25, 2008. Börner is the Victor H. Yngve Associate Professor of Information Science, Director of the

Information Visualization Lab, and Director of the Cyberinfrastructure for Network Science Center, Adjunct Associate Professor of Informatics, Core Faculty Member of Cognitive Science, and Research Affiliate of the Biocomplexity Institute at Indiana University, Bloomington. Her web page is at <http://ella.slis.indiana.edu/~katy/>.

Posted Jan. 15, 2008

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