**Brief Bio and (PR)$^2$: Problems & Pitches – Raves & Rants by Lada Adamic**

In preparation for the Modeling Science Workshop on May 21st, 2006 at Indiana University, Bloomington, we ask you to provide a brief bio and short answers to the questions below.

We plan to make your input available at [http://vw.indiana.edu/places&spaces/meeting_060521.php](http://vw.indiana.edu/places&spaces/meeting_060521.php) before the meeting to help introduce the participants to each other and to more effectively structure the workshop.

Thank you for your time.

**Biography (about 250 words)**
Lada A. Adamic is an assistant professor in the School of Information. Her research interests center on information dynamics in networks: how information diffuses, how it can be found, and how it influences the evolution of a network's structure. She worked previously in Hewlett-Packard's Information Dynamics Lab on research projects relating to networks constructed from large data sets. These projects included mining the medical literature for gene-disease connections, tracking and modeling information flow in E-mail and blog networks, modeling search processes on real-world social networks, and building expertise-finding systems.

Homepage: [http://www-personal.umich.edu/~ladamic/](http://www-personal.umich.edu/~ladamic/)

**General Questions**

What is your main interest in attending the workshop?

To learn about current research on the evolution of science and to see whether some of the diffusion phenomena I've been studying in online communities have parallels in Scientometrics.

What is your main interest in ‘modeling science’ and/or in modeling in general?

Studying how social network structure (the presence of hubs and communities in particular) influences the spread and development of ideas.

**Specific Questions – I’m hoping the Scientometrics Experts can tell me about this at the workshop :)**

What are the major empirical patterns by which science progresses?

How can one best model the interplay of time (including aging of people, papers, and fields), geography, topics, and resources (e.g., funding) that affect the evolution and diffusion of scholarly knowledge?

How can one best model feedback cycles, e.g., highly cited publications increasing the chance of receiving funding, leading to better resources, more highly cited papers, etc.?
How can we model the dynamics of growth and decline of scientific topics over time, as well as changes to topics and their interrelations?

What are the current limitations of the various modeling approaches?

Please send the completed document by Thursday May 18th, 2006 to Katy Borner <katy@indiana.edu>