

## Brief Bio and (PR)<sup>2</sup>: Problems & Pitches – Rants & Raves by Weixia (Bonnie) Huang

Dear invited participant of the NSF Workshops on Knowledge Management and Visualization Tools in Support of Discovery at the National Science Foundation, Arlington, VA on March 10 & 11, 2008, see <http://vw.slis.indiana.edu/cdi2008/workshop1.html>.

In preparation for the workshop we ask you to provide a brief bio and your input to the questions below. Your input will be available to all participants and people which are “interested (but cannot attend)” before the meeting to complement the introduction of participants and to structure the workshop more effectively.

Thank you for your time.

### Self Introduction

Please introduce yourself by providing a

- photo of yourself



- brief biography of about 250 words  
Weixia Huang is a System Architect at the *Cyberinfrastructure for Network Science* Center at the School of Library and Information Science, Indiana University, Bloomington. She has ten years industry experience on software developments and project managements. She currently lead the software development of the NSF funded Network Workbench (NWB) and Cyberinfrastructure Shell (CIShell) projects. She is particularly interested in designing and developing software with sound extensibility, usability, and scalability. Before joining the *Cyberinfrastructure for Network Science* Center, she has worked as Research Staff Member at Xerox Wilson Research Center and software engineer at Sprint. She was the architect and programmer at Xerox to develop a Device-Centric Enterprise Service Platform for automated data transmission and remote diagnosis systems..
- up to five major publications  
Herr II, Bruce W., Weixia (Bonnie) Huang, Shashikant Penumarthy, and Katy Börner. "[Designing Highly Flexible and Usable Cyberinfrastructures for Convergence](#)." In *Progress in Convergence – Technologies for Human Wellbeing* 1093, eds. William S. Bainbridge and Mihail C. Roco, 161-179. Boston: Annals of the New York Academy of Sciences, 2007.
- link to your home page  
<http://ella.slis.indiana.edu/~huangb>
- links to data or software you serve (if applicable).
  - Network Workbench Tool and Community Wiki, <http://nwb.slis.indiana.edu>
  - Cyberinfrastructure Shell, <http://cishell.org>

## General Questions

1) What is (are) your main interest(s) in attending the workshop?

I would like to understand the existing workflow science policy makers use for decision making, and learn from researchers/scientists and science policy makers the needs on data/knowledge/expertise management, analysis and visualization to support scientific discovery and innovation, as well as expand my professional network.

2) What information/knowledge management needs do you have?

Explain your 'dream tool' for scientific discovery and innovation.

I would like a tool to be able to model and visualize the evolving of the multi-disciplinary research and predict the science in the future.

3) What is the most insightful visualization of static or dynamic phenomena you know?

*[Ideally this visualization led to a major discovery/innovation. Examples could come from science, art, or any other field of human endeavor. Note that we plan to use this visualization on your name card.]*

4) What would you like to learn / achieve at the workshop?

I would like to learn more about other researcher's work and identify the possible collaboration opportunity.