



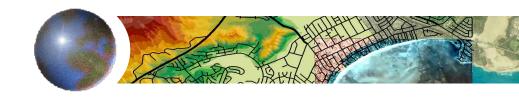
4421. What are the Grand Challenges of Geographic Information Science?

Co-sponsored by GI Systems & Science, Cyberinfrastructure, Spatial Analysis & Modeling



What are Grand Challenges?

- are extremely hard to do, yet are do-able
- produce outcomes potentially affecting millions, if not hundreds of millions of people
- require multiple research projects across many subdisciplines in order to be satisfactorily addressed
- consist of well-defined metrics such that, through creativity and commitment, can be realistically met and one knows the end has been reached
- capture the popular imagination, and thus political support



"Grand Challenges"

National Academy of Engineering

- Make solar energy affordable
- Engineer better medicines
- Prevent nuclear terror

- Provide access to clean water everywhere
- Secure cyberspace
- Reverse-engineer the brain!



Panelists

- Tim Nyerges, University of Washington
- May Yuan, University of Oklahoma
- Peggy Agouris, George Mason
- Ted Cope, NGA
- Jerry Johnston, EPA