



AAG Annual Meeting

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Panel Session:

1522 Transformative Research in Geographic Information Science

is scheduled on Tuesday, 4/8/2014, from 2:40 PM - 4:20 PM in Room 22, TCC, First Floor

Sponsorship(s):

Geographic Information Science and Systems Specialty Group
Cartography Specialty Group
Spatial Analysis and Modeling Specialty Group

Organizer(s):

[May Yuan](#) - Univ of Oklahoma

Chair(s):

[Harvey Miller](#) - The Ohio State University

Panelist(s):

[Seth Spielman](#) - University of Colorado
[Michael F. Goodchild](#) - University of California - Santa Barbara
[Alex Singleton](#)

Discussant(s):

[Shaowen Wang](#) - University of Illinois at Urbana-Champaign
[Michael Gould](#) - Esri

Session Description: In 1962, Dr. Roger Tomlinson published likely the first GIS paper entitled Computer Mapping: An Introduction to the Use of Electronic Computers in the Storage, Compilation, and Assessment of Natural and Economic Data for the Evaluation of Marginal Lands, which eventually led to the development of the world's first GIS, the Canadian Geographic Information System, in 1967. Over the last 50+ years, GIS technologies and GIScience research have thrived with exciting innovations and spanned over diverse subjects. This panel will highlight major intellectual contributions of GIScience to Geography and related fields as well as potential transformative research in GIScience underway and in the next 5 years. Specifically, we will discuss the following questions:

1. What are the landmark accomplishments in GIS technologies and GIScience research?
2. What are the key new ideas or approaches that have changed or potentially will change the course of GIS technology development or GIScience research?
3. What are the significant impacts of GIS/GIScience ideas on Geography and other disciplines? For example, leading to new insights or understanding that would not be obtainable otherwise??
4. What are current efforts or directions that promise potentially transformative GIScience research?
5. How should GIScience research communities collaboratively to stimulate potentially transformative research?

