



AAG Annual Meeting

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Paper Session:

2439 Geosimulation Models 2: Applications - Micro to Macro

is scheduled on Wednesday, 4/9/2014, from 12:40 PM - 2:20 PM in Room 39, TCC, Fourth Floor

Sponsorship(s):

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

Organizer(s):

[Suzana Dragicevic](#) - SIMON FRASER UNIVERSITY
[Andrew Crooks](#) - George Mason University
[Paul Torrens](#) - University of Maryland

Chair(s):

[Paul Torrens](#) - University of Maryland

Abstract(s):

12:40 PM Author(s): *Sara Metcalf - University at Buffalo (SUNY)

Abstract Title: *Agent-Based System Dynamics: Hybrid Modeling of Urban Health Problems*

1:00 PM Author(s): *Andrew Crooks - George Mason University
Parth Chopra - Thomas Jefferson High School for Science and Technology

Abstract Title: *An Agent-based Model for the Spread and Containment of Tuberculosis*

1:20 PM Author(s): *Nicholas Magliocca, Ph.D. - National Socio-Environmental Synthesis Center
Margaret Walls, Ph.D. - Resources for the Future
Virginia McConnell, Ph.D. - University of Maryland Baltimore County, Resources for the Future

Abstract Title: *Investigating the effects of repeated storms and 'near misses' on adaptation responses to coastal hazards*

1:40 PM Author(s): *William G Kennedy, PhD - George Mason University

Abstract Title: *An Abstract Approach to Modeling Disasters in Geosimulation Models*

2:00 PM Author(s): *Majeed Pooyandeh - The University of Calgary
Danielle J Marceau - The University of Calgary

Abstract Title: *Incorporating Bayesian learning in agent-based simulation of stakeholders' negotiation*

Session Description: Since the publication of Geosimulation in 2004, the use of Agent-based Modeling (ABM) and Cellular Automata (CA) under the umbrella of Geosimulation models within geographical systems have started to mature as methodologies to explore a wide range of geographical and more broadly social sciences problems facing society. The aim of these sessions is to bring together researchers utilizing geosimulation

techniques (and associated methodologies) to discuss topics relating to: theory, technical issues and applications domains of ABM and CA within geographical systems.

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