


Monday, September 14, 2015

- 9:00am-9:15am **Conference Opening // Ballroom I & II**
Dr. Charles Steger, *Executive Director, Global Forum on Urban & Regional Resilience, Virginia Tech; President Emeritus, Virginia Tech*
- 9:15am-10:00am **Opening Address // Ballroom I & II**
Next Generation Infrastructure
Mr. Garry Bowditch, *Executive Director (Designate), Better Infrastructure Initiative, John Grill Centre, University of Sydney. Currently, CEO SMART Infrastructure Facility, University of Wollongong*
Dr. Christopher Barrett, *Executive Director, Virginia Bioinformatics Institute (VBI), Virginia Tech*
- 10:00am-10:30am **Keynote Address // Ballroom I & II**
Hon. Mark Warner, *US Senate, Senator of Virginia*
- 10:30am-11:00am **Constructing the Infrastructure // Ballroom I & II**
Mr. Robert Prieto, *Senior Vice President, Fluor Corporation*
- 11:00am-11:30am **Next Generation Power // Ballroom I & II**
Mr. Rodney Blevins, *Senior Vice President & Chief Information Officer, Dominion Resources*
-    **30 Minute Coffee Break**
- 12:00pm-1:00pm **Parallel Panel Sessions**
- Grand Ballroom III // Designing and Building Next Generation Infrastructure**
Guy Dixon, *Network A Reinvention of Utility Distribution and Stormwater Management Infrastructure*
Lauren Cook, *Integrating Climate Model Information into Design Decisions for Adaptation of Stormwater Infrastructure*
Jim Hall, *Building Risk Assessment Models to Inform National Infrastructure Resilience*
- Grand Ballroom IV // Next Generation Power Systems**
Reinier Verhoog, *Modeling and Simulation of Renewable Energy Transitions: The Case of Nuclear Phase-Out in Switzerland*
Suriya Ruangpattana, *Optimizing the Cost of Integrating Renewable Energy Power Systems into UK Electricity Infrastructure*
Adrian Gheorghe, *Next Generation Energy Infrastructures; Hydrogen Economy Opportunities in Romania*
- 1:00pm-2:30pm **Lunchtime Speaker // Grand Ballroom I & II**
Dr. Dennis Wenger, *Chair of the Scientific and Technical Advisory Group of the UNISDR's Disaster Risk Reduction Program*

2:30pm-3:00pm

Parallel Sessions

Grand Ballroom III

Mr. Mark Siebert, *Australia National Bank, Infrastructure Finance*

Grand Ballroom IV

Mr. Projjal Dutta, *Metropolitan Transit Authority New York, Director of Sustainability*

3:00pm-4:00pm

Parallel Panel Sessions

Grand Ballroom III // Smart Investing to Mitigate the Effects of Disasters in Infrastructure

Christopher Rogers, *Modeling Infrastructure Interdependency at the City Scale*

Frederick Krimgold, *Building and Land Use Regulation for Disaster Risk Reduction in Low and Middle-income Countries*

Nima Shahriari, *From Risk to Resiliency of Unconventional Fossil Fuel Energy Infrastructures: A Need for a New Analysis Framework and Mindset*

Grand Ballroom IV // Multimodal Transport Infrastructure

Hadi Ghaderi, *The Symbiosis Nexus between Infrastructure Provision and Freight Activity: the Case of Intermodal Terminal System in Australia*

David Flanigan, *Holistic Network of Networks Seaport Interdependency Evaluation*

Nick Tyler, *Participatory Transport Planning in Latin America*



30 Minute
Coffee Break

4:30pm-5:00pm

Parallel Sessions

Grand Ballroom III // Financing Infrastructure Investment - Public Private Partnerships

Ms. Jennifer Aument, *Transurban*

Grand Ballroom IV // Critical Healthcare Infrastructure

Mr. Joe Powell, *National Institute of Building Sciences (NIBS) - Academy of Healthcare Infrastructure*

5:00pm-6:00pm

Parallel Panel Sessions

Grand Ballroom III // Better Informing Infrastructure Investment

Jenny Davis, *Improving Decision Making for Investment in Infrastructure - the Infrastructure NSW Experience*

Darryl Farber, *A System Analysis of Interdependent Infrastructure among the Built Environment, Energy, and Transportation Systems in the Philadelphia Metropolitan Region*

Grand Ballroom IV // Healthcare Systems: Challenges & Innovations

Nick Tyler, *University College London*

Amanda Navarro, *PolicyLink Center for Health Equity and Place*

William Vanderpool, *MedStar Harbor Hospital*

Eli Stefanski, *Building Innovation Factory*

6:00pm-8:00pm

Networking Reception, Poster Presentation & Demo (For detailed information see page 25)

Tuesday, September 15, 2015

8:00am-8:15am **Opening Remarks // Grand Ballroom I & II**
Jim Bohland, *Virginia Tech, Global Forum On Urban & Regional Resilience Co-Director*

8:15am-9:00am **Keynote Address // Grand Ballroom I & II**
Dr. James Hall, *University of Oxford, Director of the Environmental Change Institute Director of the Infrastructure Transitions Research Consortium*

9:00am-9:45am **Keynote Address // Grand Ballroom I & II**
Mr. Robert Puentes, *Vice President, Brookings Institution, Director, Metropolitan Infrastructure Initiative and Senior Fellow*



30 Minute
Coffee Break

10:15am-11:15am **Parallel Sessions**

Grand Ballroom III // Emerging Urban Computation, Analytics, and Decision Informatics
Dr. Sallie Keller, *Urban Analytics & Data Science*
Dr. Madhav Marathe, *In silico communities and cities: An informatics framework for urban science and policy*
Dr. Naren Ramakrishnan, *Knowledge Discovery in Interacting Infrastructure Systems*

Grand Ballroom IV // Policy & Governance for Next Generation Infrastructure
Hon. Preston Bryant, *Chairman, National Capital Planning Commission*

11:15am-12:15am **Parallel Panel Sessions**

Grand Ballroom III // Modeling & Simulation of Urban Systems and Energy
Kevin Lansey, *A Framework for Robust, Resilient, and Sustainable Integrated Infrastructure Systems*
Daehyun You, *Modeling the impacts of a low emission zone policy: the application of an integrated model of the urban continuum*

Grand Ballroom IV // Enhancement of Planning Processes for Next Generation Infrastructure
Pascal Perez, *Computational Justice for Fairer Self-Organizing Socio-Technical Systems*
Adrian Gheorghe, *Adopting Situation Awareness Paradigm for the Next Generation Infrastructures*

12:30pm-2:00pm **Lunch Speaker - Grand Ballroom I & II**
Andrew Salkin
Chief Operating Officer, 100 Resilient Cities, Rockefeller Foundation

2:00pm-3:30pm

Parallel Panel Sessions

Grand Ballroom III // Frameworks for Infrastructure Modeling

Galit Sorokin, *Infrastructure As Interface: Bridging Gaps By Addressing Relationships*

Mamadou Seck, *Exploratory Simulation of Infrastructures' Developmental Dynamics*

Grand Ballroom IV // Human-centered Design Frameworks for Infrastructure Systems

This panel addresses how infrastructure is shaped by human interaction as much as it is designed for human interaction.

Cesar McDowell, *Interaction Institute for Social Change*

Anne O'Neil, *Consultant*

Andrea Nagel, *Interaction Institute for Social Change*

Jeremy Liu, *Creative Ecology Partners*

3:30pm-4:30pm

Closing Discussion - Grand Ballroom I & II