

Global Conference on Systems and Enterprises: Critical Infrastructure Systems

December 3-4, 2009 Washington, DC

Ronald Reagan Building & International Trade Center
Woodrow Wilson Plaza - Berlin Wall Entrance
1300 Pennsylvania Ave NW
Suite G-17

Preliminary GCSE Conference Program

Thursday December 3, 2009

Time	Session	Presenter(s)	Affiliation
8:00-9:00	Registration and Breakfast		
9:00-9:30	Welcoming Remarks, GCSE Organizing Committee	Ali Mostashari Yeo Khim Teck/Rajesh Piplani	Stevens Institute of Technology (U.S.A) Nanyang Technological University (Singapore)
9:30-10:00	Keynote Speech	Vicky Cox, Vice President for Next Gen	Federal Aviation Administration (U.S.A)
10:00-12:00	<u>Session I – Infrastructure Resilience and Security</u>	Session Chair: Rajesh Piplani	Nanyang Technological University (Singapore)
	<ul style="list-style-type: none"> Critical Infrastructure Issues in the Financial Industry 	Jennifer Bayuk	Stevens Institute of Technology (U.S.A)
	<ul style="list-style-type: none"> Airport security: From single threat aspects to valid scenarios and risk assessment 	Maik Maurer	Technical University of Munich (Germany)
	<ul style="list-style-type: none"> Assessing Resilience of a Regional Road-based Transportation Network 	Ali Mostashari	Stevens Institute of Technology (U.S.A)
	<ul style="list-style-type: none"> Methodology for Assessing the Resiliency of Road Networks Connecting Manhattan 	Mayada Omer	Stevens Institute of Technology (U.S.A)
12:00-13:00	Lunch		
13:00-15:00	<u>Session II – Infrastructure System of Systems Governance</u>	Session Chair : Ali Mostashari	Stevens Institute of Technology (U.S.A)
	<ul style="list-style-type: none"> Visions for the Global 	Thomas Wakeman	Stevens Institute of

	Maritime Transportation Systems Governance		Technology (U.S.A)
	<ul style="list-style-type: none"> Governance models for Large Urban Systems 	Mathias Finger	Ecole Polytechnique Federale de Lausanne (Switzerland)
	<ul style="list-style-type: none"> Governance of the US Disaster Management Enterprise: A Forensic Case Study of Hurricane Katrina 	Robert Edson	Analytic Services (U.S.A)
	<ul style="list-style-type: none"> Critical infrastructure systems as living systems of systems 	Yeo Khim Teck	Nanyang Technological University (Singapore)
15:00-15:15	Coffee Break		
15:15-17:15	Session III – Networked and Cognition-Centric Infrastructure	Session Chair: Maik Maurer	Technical University of Munich (Germany)
	<ul style="list-style-type: none"> HIP based Micro-Mobility Management Optimization 	Muhana Muslam	University of Cape Town (South Africa)
	<ul style="list-style-type: none"> In-Door Ubiquitous Sensor Network Service Infra Supporting Bidirectional Context-Awareness between Mobile Nodes and Stationary Nodes 	Tae Hyon Kim	Kyungpook National University (Korea)
	<ul style="list-style-type: none"> Cognitive Linguistics Modeling of the Smart Grid 	Joe Mitola	Stevens Institute of Technology (U.S.A)
	<ul style="list-style-type: none"> Cognitive Cities 	Ali Mostashari	Stevens Institute of Technology (U.S.A)
17:15-18:30	Reception and Networking		

Friday December 4, 2009

Time	Session	Presenter	Affiliation
8:00-9:00	Breakfast		
9:00-9:30	Keynote Speech	Dr. Ruth David	CEO, Analytic Services (ANSER)
9:30-11:00	Session IV – Infrastructure Management	Session Chair: Mathias Finger	Ecole Polytechnique Federale de Lausanne (Switzerland)
	<ul style="list-style-type: none"> A Regional Aircraft for India: Needs, Opportunities and Risks 	Deva Henry	Stevens Institute of Technology (India)
	<ul style="list-style-type: none"> Evaluating Agility for an Extended Transportation Enterprise 	Mo Mansouri	Stevens Institute of Technology (U.S.A)

	<ul style="list-style-type: none"> Screening and Analysis Methodology for Outsourcing of Publicly Owned Treatment Works 	John Farr	Stevens Institute of Technology (U.S.A)
11:00-11:15	Coffee Break		
11:15-13:15	Session V – Infrastructure Systems Design and Enterprise Architecture	Session Chair: Mo Mansouri	Stevens Institute of Technology (U.S.A)
	<ul style="list-style-type: none"> System Engineering of Today’s Societal Systems – A Model and Case Study 	Karen Marisco	Johns Hopkins University (U.S.A)
	<ul style="list-style-type: none"> Systemic Approach for Sustainable Infrastructure Systems Design 	Ayman Nassar	IBM (U.S.A)
	<ul style="list-style-type: none"> High Performing Hospital Enterprise Architecture: insights from a multi-method exploratory case 	Jorge F. Oliveira	Massachusetts Institute of Technology
	<ul style="list-style-type: none"> A methodology for the design of Robust Infrastructures 	Rajesh Piplani	Nanyang Technological University
13:15-14:00	Lunch		
14:00-15:30	Session VI – Infrastructure and Complexity	Session Chair: Yeo Khim Teck	Nanyang Technological University
	<ul style="list-style-type: none"> Complex Enterprise Systems Behavior Prediction through Large-Scale Simulation Experiments 	Radu F. Babiceanu	University of Arkansas-Little Rock (U.S.A)
	<ul style="list-style-type: none"> A Complex Sociotechnological Systems Analysis of European Highspeed Rail 	Anne Carrigy	Stevens Institute of Technology
	<ul style="list-style-type: none"> Case-based Reasoning in Emergency Management Systems 	Xiaomei Wang	Northwestern Polytechnical University (China)
15:30-15:45	Coffee Break		
15:45-17:15	Panel: Applying Systems and Enterprise Engineering for Infrastructure Systems		
17:15-17:30	Concluding Remarks	Ali Mostashari	Stevens Institute of Technology