PRELIMINARY AGENDA

2011 TRB Transportation Hazards and Security Summit: 
Looking Beyond the 10th Anniversary of 9/11
August 22-25, 2011
Irvine, California

Monday, August 22

Session 1 – Opening Plenary - Welcome/Keynote
Welcome: Stephan Parker, Transportation Research Board
Keynote Address: Henry Cortacans, State Planner, EMS Task Force, State of New Jersey (invited)

Session 2A - Aviation Security: The Evolution of Best Practices
Richard Bloom, Embry-Riddle Aeronautical University, presiding
Committee on Aviation Security and Emergency Management (TRB AV090)
In an ever-changing world, how does one keep pace with optimal security policies, plans, and programs? Salient issues include the collection, analysis, production, transmission, and protection of intelligence; matching technologies to threats, vulnerabilities, and risks; the validity of profiling and behavior detection systems; assessing security programs and the incremental effectiveness of layers of security; comparative economics of aviation operations and security programs; the impact of domestic, regional, and global politics; and the mass communication of aviation security issues and events. Discussion of these issues will conclude with recommendations for applied research.

Presenters:
- Arnold Barnett, Massachusetts Institute of Technology
- Sheldon Jacobson, University of Illinois at Urbana-Champaign
- Vahid Motevalli, Purdue University

Session 2B – Ports and Waterways
The nation’s ports and waterways have made significant strides in improving security, both on shore and in the water, but challenges and vulnerabilities remain. The U.S. water transportation network consists of hundreds of coastal, river, and Great Lakes ports with both cargo and passenger terminals. The domestic and global economy depend on commercial shipping as a reliable, cost efficient method of transporting goods and the sheer volume of trade through the ports and on the waterways makes them a target. An attack, natural disaster, or major infrastructure failure on any aspect of the water transportation network, particularly major ports and vital inland waterways, could hamper trade and have a significant impact on both the national and global economy. The security of ports and waterways are vital to the nation.

Presenter:
- Cosmo Perrone, former Director of Security for the Port of Long Beach
**Session 2C – Mass Transit and Passenger Rail Security: Post 9/11, Post Bin Laden**
Yuko Nakanishi, Nakanishi Research & Consulting, LLC, presiding
Committee on Critical Transportation Infrastructure Protection (TRB ABE40)

Millions of Americans rely on mass transit and passenger rail to get to work and other destinations each day. The consequences of an attack directed against mass transit and passenger rail would be devastating. An attack would likely mean numerous deaths and injuries, significant infrastructure damage, and a major hit to the economy. Speakers will describe evolving threats to U.S. transit systems – passenger rail, subway, and bus -- post 9/11 and post Bin Laden. Strategic approaches to addressing key vulnerabilities of transit that have been taken since 9/11 will be discussed, and research needs to meet future threats to U.S transit systems will be identified and discussed.

**Presenters:**
- Terrorist Threats to Passenger Rail and Rail Infrastructure
  Brian M. Jenkins, National Transportation Security Center of Excellence
- Keeping Americans Secure: Mass Transit and Passenger Rail Security - Ten Years after 9/11
  Chris McKay, Branch Chief, Passenger Rail and Mass Transit Division, DHS/TSA

**Session 2D – Highway Infrastructure Security: Where Are We Going?”**
Dan Ferezan and Steve Ernst, Federal Highway Administration, presiding

Session Description: The purpose of this interactive workshop is to seek answers to the following questions, with a focus on the security and protection of highway infrastructure in the face of terrorist act/criminal threat:
- Where are our current and future vulnerabilities?
- What actions are needed to eliminate them or mitigate the consequences?

The desired outcome of the discussions is to get a view on what the participants thinks about current highway infrastructure vulnerabilities and what can or should be done about them at and beyond the 10-year mark.

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**Session 3 – Plenary Session with Debrief from Breakout Sessions 2A through 2D**
**Session Organizers:** Gia Harrington & Ernesto Acosta
- Discussion Leader Bill Arrington

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Tuesday, August 23

Session 4 – Plenary Session
- Keynote Address: Kathleen Tierney, Natural Hazards Center (CONFIRMED)

Session 5A – Assessment of Threat, Vulnerability, and Risk: Knowns and Unknowns
Richard Bloom, Embry-Riddle Aeronautical University, presiding
Committee on Aviation Security and Emergency Management (TRB AV090)
Transportation security and hazards policies, plans, and programs are contingent on accurate assessment of threat, vulnerability, and risk. But what are the most reliable and valid approaches to such assessments? What are the strengths and weaknesses of various qualitative and quantitative assessment approaches? Of special note will be opportunity cost—i.e., what answers to assessment questions are precluded by an approach’s constraints and explicit and implicit assumptions. Discussion of these issues will conclude with recommendations for applied research.

Presenters:
- Ernesto Acosta, Transportation Security Administration, Department of Homeland Security
- Ernest Frazier, Countermeasures Assessment & Security Experts, LLC
- Robert G. Ross, Science & Technology Directorate, Department of Homeland Security
- Michael Smith, University of Virginia

Session 5B – Response and Recovery
Session Organizer: Evangelos Kaiser, Florida Atlantic University

Session 5C – Resilience
Session Organizer: Vinayak Dixit, Louisiana State University

Session 5D – Supply Chain Impacts and Disruptions from Manmade and Natural Disasters
Jeff Western, Western Management and Consulting, presiding
This session will focus on Supply Chain Impacts and Disruptions from Manmade and Natural Disasters. Specifically the following questions will be presented and discussed:
- Transportation supply chain impacts resulting from a disaster
- Cascading supply chain impacts on other CIKR Sectors
- Intermodal Freight Transport Impacts
- State Transportation Agency concerns and considerations
- Subsector (aviation, maritime, mass transit, highway infrastructure and motor carrier, freight rail and pipeline) supply chain concerns and issues

Presenters:
- Michael Penders, Environmental Security International
- Martin Rojas, American Trucking Associations, Inc.
Session 5E – Responding to Multiple/Simultaneous Disasters – “Multiple Decisions: How nimble and resilient are we?”

Laurie Radow, Federal Highway Administration, presiding
Committee on Critical Transportation Infrastructure Protection (TRB ABE40)

The multiple/simultaneous events session examines what research is needed with regard to multiple events occurring at the same time in or around a single site.

With overarching questions for the session to consider, what are the challenges with multiple events that occur the same site?

A. Conflicting guidance to the public (for example – for the first event, shelter-in-place but for the second event, evacuate)
B. How to handle the heightened level of stress that the first responses may face.
C. In those states facing financial constraints, have first responders received the training and have the equipment they need?
D. Different mix of disasters requires different mix of experts (e.g., earthquakes = one type of expertise; nuclear disaster = different type of expertise; how best to coordinate these different skill sets to ensure a coordinated response that spans more than one disaster?)

Presenters:
• Solving Multi-Hazard Response Problems with State-Condition-Focused Modeling Frameworks
  Kenneth G. Crowther, Ph.D., MITRE Corporation
• What does this mean for State DOTs
  John Contestabile. Johns Hopkins University

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Session 6 – Plenary Session with Debrief from Breakout Sessions 5A through 5E

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Session 7A - Enhancing Emergency Response through Technology Innovations
Yuko Nakanishi, Nakanishi Research & Consulting, LLC, presiding
Committee on Critical Transportation Infrastructure Protection (TRB ABE40)
This Session will focus on the transportation technologies and related innovations made in recent years that will enhance emergency response. The fast pace of development in transportation and related technologies such as location-based technologies, communications technologies, signal preemption mechanisms, route optimization algorithms, and advent of social media are enhancing or have significant potential to enhance the response effort, saving lives and property. The session will cover existing and emerging transportation technologies and related innovations that will help responders identify all types of emergencies (terrorism, accidents, natural disasters), and identify research gaps that need to be addressed.

Presenters:
- The Power of Location-Based Technologies
  Diane Davidson, Center for Transportation Analysis
- DHS Science and Technology Directorate
  Mitchell Erickson, Ph.D., Interagency Office, Northeast Region
- Technology to Enhance Response
  John Contestabile, Homeland Protection, Johns Hopkins University

Session 7B – Communications
Bill Brownlow, AASHTO and Herby Lissade, CALTRANS, presiding

Session 7C – Evacuation Planning
Brian Wolshon, Louisiana State University, presiding
Subcommittee on Emergency Evacuation (TRB ANB10-3)

Presenters:
- Communication with Vulnerable Populations: A Transportation and Emergency Toolkit
  Deborah Matherly, AICP, Senior Associate, The Louis-Berger Group
- John W. Porco, PE, Senior Director, Homeland Security Services, Michael Baker Jr., Inc.
- Stephen Glascock, PE, Louisiana Department of Transportation and Development (tentative)

Session 7D – Logistics of Disaster Relief Aid
Joedy Cambridge, Transportation Research Board, presiding
Coordinating public and private collaboration and implementing the logistics of getting relief aid to those who need it is a significant challenge in any type of major disaster. Coordinating the many aspects of getting goods and services to where they are most needed in a timely and efficient manner is a major challenge. This session will focus on best practices and new initiatives to improve this process.

Presenters:
- Ines Pearce, Pearce Global Partners

Session 7E – Private/Public Collaboration
Session Organizer: Bill Anderson, TISP
**Wednesday, August 24**

**Session 8 – Plenary Session with Debrief from Breakout Sessions 7A through 7E**

**Keynote Speaker:** John Holmes, Deputy Director, Port of Los Angeles (CONFIRMED)

“Resiliency and Port Security”

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**Session 9A – Pandemic/Health Impacts – “Where partnerships are truly essential: How Transportation and Health can Inform each other”**

Laurie Radow, Federal Highway Administration, presiding

Committee on Critical Transportation Infrastructure Protection (TRB ABE40)

The Pandemic session will discuss ways how best for transportation to share what they know to the health community and how best for the health community to share its expertise with the transportation.

**Presenters:**

- **Health/CDC Perspective**
  
  Dr. Andrew D. Plummer, Centers for Disease Control and Prevention, (CDC/OID/NCEZID)  
  Epg5@cdc.gov

- **Transportation Perspective**
  
  Peter LaPorte, Washington Metropolitan Area Transit Authority plaporte@wmata.com

**Session 9B – Cyber/Technology GIS Issues**

Cyber Security: What You Can Do To Address This Growing Threat

**Session Organizer:** Mike Dinning, Volpe National Transportation Systems Center

The nation’s transportation systems are becoming increasingly dependent on the digital infrastructure and e-enabled vehicles, and the risks of potential disruption form cyber attacks are growing. This session will begin with a panel discussion highlighting the results of recent research in transportation cyber security, including programs in highways, aviation, ports and transit systems. The panelists will describe strategies to improve employee awareness and other human security challenges common to all transportation organizations. Panelists will describe new partnerships among federal, state and local agencies; industry and academia; and will provide information on a variety of resources available to increase cyber security awareness and to develop effective risk mitigation strategies. The session will conclude with a facilitated discussion to allow participants to share information on their concerns, best practices and research priorities in cyber security.

**Presenters:**
• Michael Dinning: Director, Freight Logistics and Transportation Systems, Volpe National Transportation Systems Center, Research and Innovative Technology Administration, U.S. Department of Transportation.
• Mike Murray: President and CEO, MAD Security, LLC.
• Representative from DOT or DHS to discuss highway security research and resources (TBD).

Session 9C – Environmental Impacts Post Disaster
Brian Wolshon, Louisiana State University, presiding
(TRB ANB10-3) Emergency Evacuation Subcommittee
Session Description:
Presenters:
• John Pardue, PhD, PE, Professor, Louisiana State University
• Laura Steinberg, Dean of L.C. Smith College of Engineering and Computer Science at Syracuse University (tentative)

Session 9D – Economic Challenges of Transportation Security and Disaster Mitigation
Yuko Nakanishi, Nakanishi Research & Consulting, LLC, presiding
Committee on Critical Transportation Infrastructure Protection (TRB ABE40)
The Session will address the economic challenges of security and disaster mitigation investments. Keeping transportation infrastructure in a “state of good repair” is challenging enough. The costs of security measures including training all frontline personnel, passenger awareness and education initiatives, implementation and maintenance of technologies, and the costs of additional security personnel can strain agency budgets. Is mainstreaming security and disaster mitigation into agency planning and operations the answer? Or integrating security with safety programs? Or combining recovery and mitigation resources? These questions will be explored during the session. In addition, the ability of modeling efforts as well as traditional benefit-cost and cost effectiveness analyses methods to assist decision makers in allocating scarce resources, and associated research needs will be discussed.

Presenters:
• Transit Infrastructure Protection: On-Time, Within Budget
  Allen Smith, III, Houston METRO
• Meeting the Economic Challenges of Transportation Security and Disaster Mitigation: A Strategic Approach
  Yuko Nakanishi, Nakanishi Research & Consulting, LLC  nakanishi@transresearch.net

Session 9E – Preparedness and Training
Irv Varkonyi, George Mason University, presiding

Presenters:
• Irv Varkonyi, George Mason University
• Seth Stoddard, University of North Carolina at Chapel Hill
• Dan Schultz, U.S. Department of Homeland Security
Session 10 – Plenary Session with Debrief from Breakout Sessions 9A through 9E

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- **Facilitated Open Discussion: Setting Research Priorities and Next Steps**