Supply Chain Sustainability and Transportation Resilience Workshop

Friday, March 29, 2019
8:30 am - 2:30 pm

Florida Atlantic University
SeaTech - Institute for Ocean and Systems Engineering
101 North Beach Road
Dania Beach, FL 33004
Production and transportation of goods are one of the most important elements contributing to the global economy. The constant growth of markets creates complex environments for supply chain management. This complexity leads to the vulnerability of the supply chain to risks which have environmental and social aspects. Considering the effects of these risks, it is important to create a sustainable production line that ensures economic growth and an effective and efficient operation of supply chains. An integral part of the supply chain is the distribution of goods, that utilizes the transportation network. Transportation is critical not only as a part of the supply chain, but also as a part of everyday life. The freight transportation network throughout the United States undergoes several environmental and manmade threats constantly. Hence, it is essential to develop a resilient transportation network to the threats of the environment. A one-day workshop is being held at Florida Atlantic University with a focus on supply chain sustainability and transportation resilience, and will include a wide range of presentations, that span from framework proposals to transportation and operations management-based research.

The workshop participants will include transportation, port, and coastal community stakeholders and is being held at the FAU SeaTech campus in Dania Beach with the following objectives:

- to develop in-depth knowledge and understanding among participants of the issues in transportation resiliency;
- to acquire input on developing transportation resiliency tools;
- to provide a forum for discussion and feedback on the supply chain sustainability and transportation resilience, and;
- to connect with stakeholders and envision future goals for supply chain sustainability and transportation resilience.
Workshop Agenda

8:30 am - 9:00 am  Registration

9:00 am - 9:15 am  Welcome and Introductions: Dean Stella Batalama, FAU

9:15 am - 10:45 am  Panel Session: Supply Chain Sustainability
Moderator: Dr. Manhar Dhanak
Panelists:
  • Ms. Autumn Young, Florida Department of Transportation
  • Dr. David Menachof, FAU, College of Business
  • Dr. Frances Bohnsack, Maritime Administration / U.S. Department of Transportation
  • Mr. Luis Aguilar, Broward County Port Everglades
  • Mr. Maxwell Walker, U.S. Coast Guard / FAU Graduate Student
  • Ms. Valerie Neilson, Palm Beach Transportation Planning Agency

10:45 am - 11:00 am  Break/Networking

11:00 am - 12:30 pm  Invited Presentations: Infrastructure Resilience
Moderator: Dr. Evangelos I. Kaisar
Presenters:
  • Dr. Alka Sapat and Dr. Diana Mitsova, FAU
  • Dr. Evangelos I. Kaisar, FAU, and Dr. Scott Parr, Embry Riddle Aeronautical University
  • Ms. Katherine Chambers (Touzinsky), U.S. Army Corps of Engineers R&D Center
  • Mr. Michael T. Williamson, Cambridge Systematics
  • Resiliency Index - A New Measure of System Resiliency
  • NCFRP 50: Improving Freight Transportation Resilience in Response to Supply Chain Disruptions
  • Mr. Rob Palmer, Chair of Florida Chamber of Commerce, RS&H

12:30 pm - 1:30 pm  Lunch

1:30 pm - 2:30 pm  Working Group Briefs and Discussion
Freight Sustainability - Moderator: Dr. Evangelos I. Kaisar
Transportation Resilience - Moderator: Dr. Alka Sapat

2:30 pm  Adjourn/Tour of SeaTech (Optional)
Panelists, Presenters, & Moderators

**Dr. Frances Bohnsack** is the Director of the South Atlantic Gateway Office for the Maritime Administration (MARAD) of the U.S. Department of Transportation that serves South Carolina, Georgia, Florida (except the Panhandle), Puerto Rico and the U.S. Virgin Islands. She is a graduate of University of Miami.

**Ms. Katherine Chambers** (Touzinsky) is a Research Physical Scientist at the U.S. Army Engineer Research and Development Center (ERDC). She is a graduate of Purdue University. Her interests include applying interdisciplinary science to assess and optimize the integration of environmental, navigation and flood risk management needs into Corps projects. Her other duties include coordinating Coastal System Resilience R&D Initiative and Maritime Transportation System and port resilience performance metrics and best practices.

**Dr. Manhar Dhanak** is Chair of the Department of Ocean and Mechanical Engineering at FAU. He is a graduate of University of London. Dr. Dhanak is working with Drs. Kaisar, Parr and Sapat on developing a tool for assessing and planning for resilience of maritime ports to regional impact of a hurricane.

**Dr. Evangelos I. Kaisar** is Professor of Civil Engineering and Director of the Freight Mobility Research Institute (FMRI). He is a graduate of University of Maryland.

**Dr. Alka Sapat** is Professor in the School of Public Administration at Florida Atlantic University with research interests in disaster and crisis management. She is a graduate of SUNY at Stony Brook, NY.

**Dr. Diana Mitsova** is Associate Professor in the School of Urban and Regional Planning at FAU. She holds a Ph.D. in Regional Development Planning from the University of Cincinnati and a master’s from the School of Public and Environmental Affairs at Indiana University Purdue University, Indianapolis. She joined the School of Urban and Regional Planning in August 2008. Dr. Mitsova’s research focuses on the use of geographic information systems, spatial and statistical analysis to conduct interdisciplinary research aimed at understanding the interactions between ecosystems and urban environments and informing sustainable urban planning and environmental practices.

**Ms. Valerie Neilson** is the Deputy Director of Multimodal Development at the Palm Beach Transportation Planning Agency (TPA). She is passionate about health and the built environment and leads the agency’s Complete Streets and transit efforts. She is a Leadership Palm Beach County Alumni and serves on the City of Greenacres Planning Commission. Prior to the Palm Beach TPA, Valerie was the University Miami BikeSafe Program Manager, where she headed bicycle safety efforts in the Miami-Dade Public School System and also served as the Vice Chair of the Miami-Dade Health & Built Environment Committee. Previously, Valerie worked on sustainability initiatives and environmental planning studies for an environmental consulting firm. Valerie has over 10 years of planning experience and holds a Masters in Urban & Regional Planning from Florida State University.

**Dr. Scott Parr** is Assistant Professor in Civil Engineering at the Embry Riddle Aeronautical University, Daytona. His research interests are in Transportation Engineering. He is a graduate of Louisiana State University.

**Dr. Maxwell Walker** graduated from the United States Coast Guard Academy in May of 2013 with a B.S. in Naval Architecture and Marine Engineering. Upon graduation he reported aboard the Coast Cutter NAUSHON in Ketchikan, AK. The cutter was responsible for conducting search and rescue operations along with fisheries law enforcement in Alaskan waters. His primary responsibility as the operations officer was safe navigation of the vessel and planning law enforcement patrols. He departed the NAUSHON in June of 2015 and reported to Coast Guard Sector New York, the Coast Guard’s largest operational command. There he served as a Marine Inspector and ensured regulatory compliance for both foreign and domestic vessels. He was the lead project officer for the first all electric solar powered vessel that will be certified to carry passengers by the Coast Guard. He was also part of the team that oversaw the construction and delivery of 22 ferries to New York City in support of the Citywide Ferry Project. He is currently assigned to the Coast Guard’s Post Graduate Program, pursing a M.S. with a Major in Ocean Engineering at Florida Atlantic University. At FAU, he is assisting in research for a Port Resiliency Project in conjunction with Embry-Riddle Aeronautical University and the United States Coast Guard.