

# National Conference on Intermodal Transportation: Problems, Practices and Policies

## Conference Program

# National Conference on Intermodal Transportation: Problems, Practices and Policies

October 11 – 12, 2012

Student Center

**Hampton University, Hampton, VA 23668, U. S. A.**



THURSDAY, OCTOBER 11		
8:00 AM	NCIT Registration and Welcome Table	(Student Center 1 <sup>st</sup> Floor Foyer)
8:00 AM – 8:45 AM	Refreshment	(Student Center 1 <sup>st</sup> Floor Foyer)
8:45 AM – 8:50 AM		(Student Center 1 <sup>st</sup> Floor Ballroom B & C)
	<b>Introduction</b> : Kelwyn D'Souza, Director, <i>Eastern Seaboard Intermodal Transportation Applications Center (ESITAC)</i> , Hampton University.	
8:50 AM – 8:55 AM		(Student Center 1 <sup>st</sup> Floor Ballroom B & C)
	<b>Welcome</b> : Sid Credle, Dean, School of Business, Hampton University.	
8:55 AM – 9:10 AM		(Student Center 1 <sup>st</sup> Floor Ballroom B & C)
	University Speaker, HU Speaker (TBA)	
9:10 AM – 9:40 AM		(Student Center 1 <sup>st</sup> Floor Ballroom B & C)
	<b>Inauguration</b> : Jeff Keever, Senior Deputy Executive Director, Virginia Port Authority. <i>Maintaining Transportation Connections Through Effective Partnerships.</i>	
9:40 AM – 10:00 AM	<b>Guest Speaker</b> : Molly Ward, Mayor, City of Hampton. <i>Regional Transportation and Local Economics.</i>	

THURSDAY, OCTOBER 11		
10:00 AM– 11:30 AM	<b>Plenary Session 1</b>	<b>(Student Center 1<sup>st</sup> Floor Ballroom B &amp; C)</b>
	<p><b>PS1.0: Intermodal Transportation: Problems, Practices, and Policies</b></p> <p><b>Session Chair:</b> Robert Plymale, Director, Rahall Transportation Institute.</p> <p><b>Speaker:</b> Wendy Vachet, NAVFAC, Mid-Atlantic Region, US Navy. <i>Strategic Transportation Planning for Sustainable Military Missions.</i></p> <p><b>Speaker:</b> Chris Leubbers, Group Manager, International Marketing, Norfolk Southern. <i>Rail and the Transportation System.</i></p> <p><b>Speaker:</b> Patrick J. Donovan, Director of Maritime and Intermodal, Rahall Transportation Institute. <i>The Development of an Inland Intermodal Terminal in the Heart of Appalachia.</i></p>	
11:30 AM – 11:40 AM	<b>Refreshment Break</b>	
11:40 AM – 1:00 PM	<b>Technical Session 1</b>	<b>(Student Center 1<sup>st</sup> Floor Ballroom B &amp; C)</b>
	<p><b>S1.0: Transportation Policy and Planning</b></p> <p><b>Session Chair:</b> Jose Gomez, Virginia Center for Transportation Innovation and Research</p> <p><b>S1.0 P1 (Invited Paper):</b> <i>Value Engineering Applications for Deploying Sustainable Intermodal Transportation Infrastructure Strategies.</i> Waheed Uddin, University of Mississippi.</p> <p><b>S1.0 P2.</b> <i>Measuring the Accessibility of Intermodal Centers in Virginia.</i> Philip Kempf &amp; Vlad Gavrilovic, VDOT; Scudder Wagg, Michael Baker Corporation; David Hurst, CDM Smith Inc.; and Jason Espie, Renaissance Planning Group.</p> <p><b>S1.0 P3:</b> <i>Strategies for Transit Priority.</i> Peter B. Ohlms, Virginia Center for Transportation Innovation and Research (VCTIR).</p> <p><b>S1.0 P4:</b> <i>Developing and Applying Truck Mobility Measures for Decision-making.</i> Bill Eisele, Dave Schrank, &amp; Tim Lomax, Texas Transportation Institute and Rick Schuman, Inrix, Inc..</p>	
1:00 PM – 2:00 PM	<b>Lunch: Sponsored VPA/VDOT</b>	<b>(Student Union 1<sup>st</sup> Floor Ballroom B C)</b>

**THURSDAY, OCTOBER 11**

**2:00 PM – 4:00 PM**

**Plenary Session 2**

**(Student Union 1<sup>st</sup> Floor Ballroom B & C)**

**PS2.0: Transportation Education and Workforce Development**

**Panel Discussion: What’s an “Intermodalologist”? Strengthening Connections between Intermodal Transportation and Jobs.**

**Primary Session Chair:** Diana Long, Director of Workforce Development, Rahall Transportation Institute.

**Secondary Session Chair:** Lydia E. Mercado, Transportation Workforce Coordinator, Research & Innovative Technology Administration (RITA).

**Moderator:** Lydia E. Mercado, Transportation Workforce Coordinator, Research & Innovative Technology Administration (RITA).

**Panelists:**

Diana Long, Rahall Transportation Institute.  
*Matching Education and Training to Workforce Needs.*

Chad Miller, University of Southern Mississippi.  
*Job Creation Factors for Near Dock and Inland Intermodal Facilities.*

Greg Edwards, Virginia Port Authority.  
*Is There Such A Thing As “Intermodalology”?*

Gene Shin, , Virginia Department of Transportation.  
*Managing and Communicating Between Modes: Communication Skills of an Intermodalologist*

Barbara Murray, SE Maritime Transportation Center.  
*Advanced Technology Partnership with Private Industry to Provide Intermodal Transportation Training for Specific Needs.*

Scott Lovell, Parsons Brinckerhoff.

Adam Jack, Virginia Department of Transportation.  
*Skills and Mentoring: Speeding up the Experience Level of the Emerging Workforce.*

Patrick Sherry, University of Denver.

**Audience/Panel Q&A**

**4:00 PM – 4:10 PM**

**Refreshment Break**

THURSDAY, OCTOBER 11		
4:10 PM – 5:30 PM	<b>Technical Session 2.1</b>	<b>(Student Center 1<sup>st</sup> Floor Ballroom B &amp; C)</b>
	<p><b>S2.1: Congestion, Safety, and Environmental Impact</b></p> <p><b>Session Chair:</b> Vijaya (VJ) Gopu, University of New Orleans and Louisiana Transportation Research Center.</p> <p><b>S2.1 P1:</b> <i>Research Framework for Studying Transit Bus Driver Distraction in the Commonwealth of Virginia</i> Kelwyn D’Souza and Sharad Maheshwari. Hampton University.</p> <p><b>S2.1 P2:</b> <i>A Conceptual Analysis of Cognitive Distraction for Transit Bus Drivers</i> Kelwyn D’Souza, Hampton University; Denise Siegfeldt, Florida Institute of Technology; and Alexa Hollinshead, Hampton University.</p> <p><b>S2.1 P3:</b> <i>An Investigation on the Dispersion of Pollutants from Major Roadways.</i> Ates Akyurtlu and Jale Akyurtlu, Hampton University.</p> <p><b>S2.1 P4:</b> <i>Evaluation of Weathering Steel Sign Structures in West Virginia.</i> Wael Zatar, Marshall University; Ted Whitmore &amp; Ray Lewis, West Virginia Department of Transportation; and Hai Nguyen, Rahall Transportation Institute.</p>	
4:10 PM – 5:30 PM	<b>Technical Session 2.2</b>	<b>(Student Center 1<sup>st</sup> Floor Theatre)</b>
	<p><b>S2.2: Innovative Non-Destructive Testing and Evaluation Technologies</b></p> <p><b>Session Chair:</b> Burak Eksioglu, NCITEC, Mississippi State University.</p> <p><b>S2.2 P 1:</b> <i>Innovations in Structural Health Monitoring and NDT of High Risk Assets</i> Terry A. Tamutus, Mistras Group, NJ; and Devendra Parmar, Hampton University.</p> <p><b>S2.2 P2:</b> <i>Investigative Analysis Using Small Spot and Mapping by WDXRF.</i> David E McAnallen &amp; Al Martin, Thermo Fisher Scientific, USA; Kurt Juchli, and Didier Bonvin, Thermo Fisher Scientific, Switzerland.</p> <p><b>S2.2 P3:</b> <i>“AUT – Black Magic or a cost-effective alternative to radiography?”</i> Michael Moles, Olympus NDT.</p>	
5:30 PM – 7:30 PM	<b>Reception: Sponsored by Prudential Financial (Student Center 1<sup>st</sup> Floor Ballroom B &amp; C)</b>	

Friday, October 12		
8:00 AM	NCIT Registration and Welcome Table	(Student Center 1 <sup>st</sup> Floor Foyer)
8:00 – 9:00 AM	Refreshment	(Student Union 1 <sup>st</sup> Floor Foyer)
9:00 AM – 11:00 AM	Technical Session 3.1	(Student Union 1 <sup>st</sup> Floor Ballroom B)
	<p><b>S3.1: Transportation Awareness: Research and Education</b></p> <p><b>Session Chair:</b> Bill Thomas, Hampton University.</p> <p><b>S3.1 P1:</b> <i>National Summer Transportation Institute Program: Role of Educators and Mentors in the Post-Secondary Achievement of Participants.</i> Sonja Pollard-Mitchell, Shontae Taylor and Margaret Dismond Martin, Hampton University.</p> <p><b>S3.1 P2:</b> <i>Impact Of Education And Awareness Programs On The Usage And Attitude Towards Texting While Driving Among Young Drivers.</i> Sharad K. Maheshwari and Kelwyn A. D’Souza, Hampton University.</p> <p><b>S3.1 P3 :</b> <i>Best Practices for Recruiting, TTraining, and Promoting Employees to Work on the Inland Waterways.</i> Lenahan O’Connell, Kentucky Transportation Center.</p> <p><b>S3.1 P4:</b> <i>Industrial Space Demand and Intermodal Transportation Activity: Exploring the Connection.</i> Christopher Lindsey &amp; Hani S. Mahmassani, Northwestern University; Matt Mullarkey, CenterPoint Properties; Terry Nash and Steve Rothberg, Mercator International, LLC.</p>	
9:00 AM – 11:00 AM	Technical Session 3.2	(Student Center 1 <sup>st</sup> Floor Theatre)
	<p><b>S3.2: Modeling, Simulation and Performance Parameters</b></p> <p><b>Session Chair:</b> Stephen Arhin, Howard University.</p> <p><b>S3.2 P1 (Invited Paper):</b> <i>A new heuristic based approach for hub and spoke network design problem.</i> Huseyin Tunc and Burak Eksioglu, Mississippi State University.</p> <p><b>S3.2 P2:</b> <i>The Application of Cloud Computing in Transport Planning through Developments in Interactive 3D Simulation Technology.</i> Yuji Ito, Christophe Soulier &amp; Yoann Pencreach FORUM8 Co., Japan; Brendan Hafferty, Kota Shibata and Patrick Hafferty FORUM8, UK.</p> <p><b>S3.2 P3:</b> <i>Targeting speeders on Perth roads.</i> Zuhair Ebrahim and Hamid Nikraz, Curtin University, Western Australia.</p> <p><b>S3.2 P4:</b> <i>Utilizing Genset technology in locomotive power at intermodal railyard operations</i> T J Mahoney, Railserv.</p>	
11:00 AM – 12:00 AM	Lunch: Sponsored Parsons Brinckerhoff (PB)	(Student Center 1 <sup>st</sup> Floor Ballroom B & C)

Friday, October 12

12:00 Noon – 1:45 PM

Panel Discussion

(Student Union 1<sup>st</sup> Floor Ballroom B & C)

**PD1.0: High Payoff Intermodal Research Areas: Vision and Identification**

**Panel Chair and Moderator:** Moges Ayele, Federal Highway Administration.

Jimmy White, VCTIR.

*Some research is implementable, some is not. How do you pick the right topic?*

Brian Smith, University of Virginia.

*Research needs not being met in the Operations, Mobility, and Planning areas.*

Waheed Uddin, University of Mississippi.

*Research needs not being met in the Infrastructure and Remote Sensing Areas.*

Dick Beadles, Virginia Rail Policy Institute.

*Intermodal research and implementation: What's missing?*

David Kuehn, Federal Highway Administration.

*A vision of a future intermodal system: How research can lead to safe, mobile, and sustainable networks*

1:45 PM – 1:55 PM

Refreshment Break

1:55 PM – 3:25 PM

Technical Session 4.1

(Student Center 1<sup>st</sup> Floor Theatre)

**S4.1: Intermodal Infrastructure Asset Management**

**Session Chair:** Stephen Sharp, Virginia Center for Transportation Innovation and Research.

**S4.1 P1 (Invited Paper):** *Instrumentation Development and Applications of Low Frequency Acoustics.* Qamar A. Shams, NASA Langley Research Center.

**S4.1 P2:** *Advanced Technologies for Condition Assessment of Timber Bridges*

James Wacker, Forest Products Laboratory; and Vijaya (VJ) Gopu, University of New Orleans and Louisiana Transportation Research Center

**S4.1 P3:** *The Multi-modal Impacts of Compromises to Ohio River Shipping Capacity: A Case Study*

John Ripy and Ted Grossardt, Kentucky Transportation Center.

Friday, October 12	
1:55 PM – 3:25 PM	<p><b>Technical Session 4.2</b> (Student Center 1<sup>st</sup> Floor Ballroom B &amp; C)</p> <p><b>S4.2: Remote Sensing and Infrastructural Renewal</b>  <b>Session Chair:</b> Charles Knowles, Kentucky Transportation Center</p> <p><b>S4.2 P1:</b> <i>Establishment of a Red-Light Running Violation Index for Signalized Intersection.</i> Stephen Arhin and E. C. Noel, Howard University.</p> <p><b>S4.2 P2:</b> <i>City-Regionalism as a Politics of Collective Provision: Intermodal Transportation Infrastructure in Denver, U.S.A.</i>  Andrew Goetz, University of Denver; Andrew Jones, University of Hull, U.K. and Sutapa Bhattacharjee, University of Denver</p> <p><b>S4.2 P3:</b> <i>Non-Destructive Testing Technology for Intermodal Interactions: Acoustic Emission Studies on Highway Bridges Crossing Over Freight Rail Tracks.</i>  Devendra S. Parmar, Hampton University; Stephen R. Sharp, VCTIR; Terry Tamutus, and Richard Gostautas, Mistras Group.</p> <p><b>S4.2 P4:</b> <i>The Effect of Transit Oriented Development (TOD) on Travel Behaviors in Denver, Colorado.</i>  Greg Kwoka and Eric Boschmann, University of Denver.</p>
3:25 PM – 4:45 PM	<p><b>Technical Session 5.1</b> (Student Union 1<sup>st</sup> Floor Ballroom B)</p> <p><b>S5.1: Transportation Mobility, Sustainability, and Connectivity</b>  <b>Session Chair:</b> Eric Boschmann, University of Denver.</p> <p><b>S5.1 P1:</b> <i>Is Changing the Value of Travel Time an Area of Opportunity for Intermodal Travel?</i>  John Miller, Virginia Center for Transportation Innovation and Research.</p> <p><b>S5.1 P2:</b> <i>Mobility and Travel Behaviors of Aging Population in Denver, Colorado.</i>  Sylvia Brady and Eric Boschmann, University of Denver.</p> <p><b>S5.1 P3:</b> <i>New Rail Transit, Associated Transit-Oriented Development And the Changing Denver Transportation System.</i>  Keith Ratner, Salem State University; and Andrew Goetz, University of Denver.</p> <p><b>S5.1 P4:</b> <i>Determining Mainline Track Alignment by RTK GNSS.</i>  Peter Dailey, Rahall Transportation Institute.</p>

Friday, October 12	
3:25 PM – 4:45 PM	<b>Technical Session 5.2</b> <span style="float: right;"><b>(Student Center 1<sup>st</sup> Floor Theatre)</b></span> <b>S5.2 Integration of Operations, Maintenance and Planning</b>  <b>Session Chair:</b> Joseph Curtis, Parsons Brinckerhoff.  <b>S5.2 P1 (Invited Paper):</b> <i>Maritime Trade/ Importance of Port Safety Security.</i> ADM Kevin Cook, United State Coast Guard.  <b>S5.2 P2:</b> <i>The Appropriate Material Specification and Manual are Key for Effective Gravel Road Design, Construction and Maintenance Practice.</i> Richard R. Mwaipungu and Dhiren Allopi, Durban University of Technology, South Africa.  <b>S5.2 P3:</b> <i>GIS Web-Based Applications for West Virginia’s Outdoor Advertising Program.</i> Wael Zatar, Marshall University; Hussein Elkhansa, & Bill Light, West Virginia Department of Transportation; and Paulus Wahjudi, Rahall Transportation Institute.  <b>S5.2 P4:</b> <i>The ‘Gateway to Africa’ concept: prospects for a transshipment hub in Limpopo Province.</i> Dinesh Chaithoo, ARUP (Pty) Ltd, South Africa; Mac Mashiri, Gwarajena TRD, South Africa; and James Chakwizira, University of Venda, South Africa.
4:45 PM	<b>Conclusion</b>