## Technical Program (ICUTS 2013)  
(as of 12 Oct, 2013)

### Monday, 18 November 2013

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| 9:00 - 9:45 a.m. | Welcoming & Conference Introduction                                      | Walter Kulyk, Conference Chair, P.E., M.ASCE, Federal Transit Administration (Retired), USA  
Steven Jones, Conference Co-Chair and Proceedings Editor, Ph.D., M.ASCE, University of Alabama, USA  
Murthy Bondada, Honorary Conference Chair, Ph.D., P.E., F.ASCE, Bondada Consulting, USA  
Imad Al-Qadi, Ph.D., P.E., Dist. M.ASCE, Transportation and Development Institute, American Society of Civil Engineers, USA (invited)  
Pierre Serne, Vice President Paris Region Transport, France (invited)  
Olivier Faron, Ph.D., Administrateur Général, Conservatoire National des Arts et Métiers, France (invited) |
| 9:45 - 10:15 a.m. | Keynote Address: The Role of SNCF in Providing Passenger Rail Service in France  
Urban Transportation Integration – The Big Picture | Jöel LeBreton, Chairman, SnCF Proximities, France  
Jean-Pierre Farandou, Chairman, Keolis, France |
| 10:15 - 10:30 a.m. | Networking Break                                                        |                                                                                                                                       |
| 10:30 - 11:45 a.m. | High Speed Rail + Transit: Centerpiece of 21st Century Transportation  
Planning and Design of Rail Transit Lines and Networks | Andy Kunz, President & CEO, US High Speed Rail Association, USA  
Vukan Vuchic, Ph.D., F.ASCE, Emeritus Professor of Transportation, University of Pennsylvania, USA |
<p>| 11:45 a.m. -    | Lunch on your own                                                        |                                                                                                                                       |</p>
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| 1:30 p.m.  | Session A-1 Planning, Environment & Finance Moderator – Walter Kulyk, P.E., M.ASCE, Federal Transit Administration (Retired), USA  
• Integrating Policy and Practice for Sustainable Communities: A Handbook of Best Practices in France and the United States – Benjamin Collin, French Ministry of Ecology and Sustainable Development, France  
• New Approaches to Transportation Planning: The Real Constraints of Sustainability – Robert Paaswell, Ph.D., Dist. M. ASCE, CUNY Institute for Urban Systems, USA  
• A Global Strategy for Better Environment through Public Transportation – Murthy Bondada, Ph.D., P.E., F.ASCE, Bondada Consulting, USA  
• Transportation in Moscow: Problems and Progress – Vukan Vuchic, Ph.D., F.ASCE, University of Pennsylvania, USA, Jean-Claude Ziv, Ph.D., CNAM, France and Maxim Katz, City Projects, Russia  
• Best Practices in Addressing Transit Safety and Security – Marsha Anderson Bomar, P.E., M. ASCE, Stantec, USA  
• Integrating Travelers and Transit into Solutions for Congestion Relief - Wei-Bin Zhang, Ph.D., California PATH, University of California, Berkeley, USA  
• Planning and Building Large Scale Railway Projects in the United States: The California High-Speed Train Project – Kenneth Sislak, AECOM, USA and Rachel Vandenberg, USDOT, USA  
• Danish Rail Infrastructure Modernization-business core for mainline and urban networks - David Chabanon, Parsons Transportation Group, USA  
• HOV/HOT Lane Vehicle Characteristics: A Case Study on Atlanta's I-85 HOV-to-HOT Corridor - Katie Smith, Vetri Elango, and Randall Guensler, Ph.D., Georgia Institute of Technology, USA  
• PRT Urban Applications, Small to Large - Peter Muller, PRT Consulting, USA  
• Personal Rapid Transit Live Applications Challenges - Joerg Schweizer, Ph.D., University of Bologna, Italy  
• PRT Statewide Application: The Conceptual Design of a Transit System Capable of Serving Essentially All Daily Trips - Alain Kornhauser, Ph.D, F.ASCE, Princeton University, USA | Session A-2 Planning, Environment & Finance Moderator – Matthew Lesh, Federal Transit Administration, USA  
• Planning for Personal Rapid Transit - How to Plan for this Paradigm-Breaking Mode of Transportation - Peter Muller, PRT Consulting, USA  
• PRT Mode Share Estimations Using a Direct Demand Stated Preference Method  
• Integrated Multi Modal Transport System of Delhi with Special Focus on Delhi Metro – Rahul Tiwari, School of Planning And Architecture, India  
• Advanced Intelligent Transportation System Concepts for Improving Transit  
• California High Speed Rail: Catalyst for Massive Expansion of Urban Mass Transit and Regional Rail – Daniel Krause, Californians For High Speed Rail, USA  
• Design of Access Facilities and Modal | Session B-1 Operations & Maintenance Moderator – Pete Sklannik, Parson Brinkerhoff, USA  
• Session C-1 Infrastructure and Design Moderator – Jon Esslinger, P.E., M.ASCE, ASCE T&D, USA  
• Session D-1 Innovative Systems and Practices Moderator – Matthew Lesh, Federal Transit Administration, USA  
• Session B-2 Operations & Maintenance Moderator – Steven Jones, Ph.D., M. ASCE, University of Alabama, USA  
• Session C-2 Infrastructure and Design Moderator – Vukan Vuchic, Ph.D., F.ASCE, Emeritus Professor of Transportation, University of Pennsylvania, USA  
• Session D-2 Innovative Systems and Practices Moderator – Luis Ferreras, A.M.ASCE, Parsons Transportation Group, USA  
• The Dallas Area Rapid Transit’s Integrated Corridor Management Initiative - Koorosh Olyai, P.E., Stantec, Dallas, USA  
• Rapid Transit (BRT): What is it and Why Do We Need it for Dhaka - Dhrubo Alam, |
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<th>6:30 p.m.</th>
<th>Opening Reception with Welcoming Speeches from T&amp;DI and French Leaders (Museum at CNAM), Sponsored by SNCF</th>
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| - Joerg Schweizer, Ph.D, University of Bologna, Italy  
- PRT as a Supplement to Existing Transportation Modes - Ingmar Andreasson, Ph.D., LogistikCentrum, Sweden | Operations and Ridership – Walter Kulyk, P.E., M.ASCE, Federal Transit Administration (Retired), USA  
- Sustainability of Public Transport on the Rock Bed of Civil Infrastructure - Construction of Traffic Transit Management Centres by BMTC - K. N. Ingalagi, Ph.D., Bangalore Metropolitan Transport Corporation, India | Integration for Major Transit Projects in Developing Countries - Murthy V. A. Bondada, Ph.D., P.E., F.ASCE, Bondada Consulting, USA and Rahul Tiwari, School of Planning And Architecture India  
- The Role of French Transport Authorities in Designing Transit Networks - Guy Le Bras, Groupement des Autorités Responsables de Transport, France | P.E., Bangladesh University of Engineering and Technology, Bangladesh  
- The Decision for Rapid Transit in Rio de Janeiro – Altair Torres, Brazil |
## Concurrent Technical Sessions

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<th>Session A-3 Planning, Environment and Finance</th>
<th>Session B-3 Operations &amp; Maintenance</th>
<th>Session C-3 Infrastructure and Design</th>
<th>Session D-3 Innovative Systems and Practices</th>
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<td>8:30 - 10:30 a.m.</td>
<td>• A comparison of Investment Trends and Economic Development Potential by Public Transport Mode - Cliff Henke, Parsons Brinckerhoff, USA</td>
<td>• Experimental Analysis of Single Lane Roundabout Slip Lanes Under Varying Traffic Percentages in VISSIM – Majed Al-Ghandour, P.E., Ph.D., M.ASCE, NCDOT, USA</td>
<td>• Resiliency Lessons Learned from Superstorm Sandy - Pete Sklannik, Parsons Brinkerhoff, USA</td>
<td>• Innovative Transit Systems and Practices - Relevant Programs under the U.S. Department of Transportation’s Federal Transit Administration – Walter Kulyk, P.E., M.ASCE, Federal Transit Administration (Retired), USA</td>
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<td>• Measuring the Value of Multimodal Investments - Matthew Riffkin, Inter Plan, USA</td>
<td>• Development of Accident Prediction Model for an Urban Arterial under Mixed Traffic Conditions: A Case Study – Ashish Dhamaniya, Ph.D, India Institute Of Technology (IIT), Roorkee, India</td>
<td>• A Conceptual Physical Design of Rapid Transit (BRT) in Dhaka – Sudip Barua, University of Alberta, Canada and Dhrubo Alam, P.E., Bangladesh University of Engineering and Technology, Bangladesh</td>
<td>• Maximizing Airport Land Side Values by Incorporating Advanced Mobility Systems - Alain Kornhauser, Ph.D, F.ASCE, Princeton University, USA</td>
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<td>• Sustainable Urban Mobility Plans by municipalities in Europe - Vincent Leiner, European Commission, Belgium (invited)</td>
<td>• Performance Enhancement and Congestion Reduction at a Busy Signalized At-Grade Intersection with BRT System Corridor and Mixed Traffic in India - Hemant Sharma, Ph.D., Mansha Swami, and B.L. Swami, Malviya National Institute of Technology, India</td>
<td>• Integrating a rapid transit project in a metropolis of the developing world: The case of Cape-Town, South Africa – Nicolas Ziv, Gauthier Roüast, and Apolline De Witasse, France</td>
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### Wednesday, 20 November 2013

#### Concurrent Technical Sessions

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<td>8:30 - 10:00 a.m.</td>
<td>A Qualitative Comparison of Edmonton City with Other Cities in the Context of Transit Oriented Development – Sudip Barua, University of Alberta, Canada and Dhrubo Alam, P.E., Bangladesh University of Engineering and Technology, Bangladesh</td>
<td>Bringing People to Work: A Sustaining Function of Commuter Rail Services – Rachel Liu, Ph.D., P.E., M. ASCE, New Jersey Institute of Technology, USA</td>
<td>Automated Metro Operational Design: Challenges and Opportunities - David Nelson, AECOM, USA</td>
<td>Autonomous Vehicles: A Critical Tool to Solve the XXI Century Urban Transportation Grand Challenge - Luis Ferreras, A.M.ASCE, Parsons Transportation Group, USA</td>
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<td>10:00 - 10:30 a.m.</td>
<td>Networking Break</td>
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<td>10:30 a.m. - 12:00 a.m.</td>
<td>Transit-Oriented Development - Increased Land Value – Michael Bello, Gensler, USA</td>
<td>Infrastructure Design Challenges for Hydrogen Refueling Facilities to Meet the Fuel Cell Market- Bruno Forget, Canada</td>
<td>Designing BRT for Future Rail Conversion: Engineering and Policy Issues and Project Considerations – Cliff Henke, Parsons Brinkerhoff, Inc., USA</td>
<td>The Role of Electric Drive Transit Technologies in Reducing Greenhouse Gas Emissions - Stephen Reich and Alexander Kolpakov, Center for Urban Transportation at the University of South</td>
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<tr>
<td>Time</td>
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<td>12:00 - 1:30 p.m.</td>
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| 1:30 - 3:00 p.m.  | Session A-6 Planning, Environment & Finance<br>Moderator – Steven Jones, Ph.D., M. ASCE, University of Alabama, USA<br>• Exploring Strategies for Achieving "VMT-Neutral“ Economic Growth - Paula Dowell, Ph.D., Cambridge Systematics Inc, USA<br>• Transportation and Air Quality Conformity Studies at Project - Level Utilizing Impact Assessment Tools - Giacomo Cernjul, Georgia Institute of Technology, USA<br>• Lessons Learned from FTA's Transit Investments for Greenhouse Gas & Energy Reduction Program - Matthew Lesh, Federal Transit Administration, USA<br>• Operating Fleets with Fuel Cells - Fabio Ferrari, Symbio FCell, France<br>• Advanced Fuel Cell Technology for Transit Buses - Jeff Grant, Ballard Power Systems, Canada<br>• Comparison of Fuel-cycle Emissions per Passenger Mile from Multiple and Rail Technologies –Yangzi Xu, Ph.D, Georgia Institute of Technology, USA<br>• Construction of a Metro Line Serving the Holy Sites of Makkah in the Kingdom of Saudi Arabia - Aymen Mhamed, Habib Zainalabidien, Philippe Moine, Mohammad Kashani, and Maurice Stack, SYSTRA, France<br>• Sustainable Solutions for Railroad Trackwork - Monica Louie, Parsons Transportation Group, USA<br>• Design and Construction of St. Clair Avenue West Light Rail Line - Toronto, Canada - Josef Grajek, P.Eng., City of Toronto, Canada<br>• Innovative Projects under the Commission’s CIVITAS program - Vincent Leiner, European Commission, Belgium<br>• Infrastructure Asset Management in Urban Transportation Systems: concepts, innovations, standards and benefits – Jean-Michel Guillenot and Francis Rocha, Assetman, France<br>• Alternative Project Delivery Processes Involving the Denver and Salt Lake City Rail Projects - Matt McDole, P.E., Transportation Services, LS Gallegos & Associates Inc., USA | Moderator – Walter Kulyk, P.E., M.ASCE, Federal Transit Administration (Retired), USA<br>• Operating Fleets with Fuel Cells - Fabio Ferrari, Symbio FCell, France<br>• Advanced Fuel Cell Technology for Transit Buses - Jeff Grant, Ballard Power Systems, Canada<br>• Comparison of Fuel-cycle Emissions per Passenger Mile from Multiple and Rail Technologies –Yangzi Xu, Ph.D, Georgia Institute of Technology, USA<br>• Construction of a Metro Line Serving the Holy Sites of Makkah in the Kingdom of Saudi Arabia - 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Matt McDole, P.E., Transportation Services, LS Gallegos & Associates Inc., USA | Session D-6 Innovative Systems and Practices<br>Moderator – Murthy Bondada, Ph.D., P.E., F.ASCE, Bondada Consulting, USA

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**Morphology of Public Transportation Systems** - Todor Stojanovski, KTH Royal Institute of Technology Sweden

- Attracting New Ridership to Light Rail Transit: A Case Study of Hudson Bergen Light Rail Extension - Rachel Liu, Ph.D., P.E., M. ASCE, New Jersey Institute of Technology, USA
- Application To Uijeongbu LRT Project (South Korea), by Mohammed Akraa, Eric Pruvost, Antoine Paumier, and Serge Montens, SYSTRA, France
- Rail System Construction Costs: The Washington Metro Experience - Takis Salpeas, M.ASCE, Parsons Transportation Group, USA
- Florida, USA
  - Hydrogen Fuel Cell Transit Buses and Infrastructure - Contrasting Innovations
  - Larry Wnuk, Ph.D., CALSTART, USA
  - Vehicle Assist and Automation - Wei-Bin Zhang, Ph.D., California PATH, University of California, Berkeley, USA

**12:00 - 1:30 p.m.**

**Lunch on your own**

**1:30 - 3:00 p.m.**

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**3:00 - 3:30 p.m.**

**Networking Break**

**Closing Plenary Session**
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| 3:30 - 5:00 p.m. | Innovative and Integrated Transit Services and Technology  
Financing Options for Planning, Constructing, and Operating Public Transportation  
The Future of Public Transportation Across the Globe  
Concluding Remarks | John Inglish, Former CEO, Utah Transit Authority, USA  
Savary Gilles, Co-President of Avenir Transports, France  
Alain Flausch, Secretary General, International Association of Public Transport, Belgium  
Walter Kulyk, Conference Chair, P.E., M.ASCE, Federal Transit Administration (Retired), USA  
Steven Jones, Conference Co-Chair and Proceedings Editor, Ph.D., M. ASCE, University of Alabama, USA  
Murthy Bondada, Honorary Conference Chair, Ph.D., P.E., F.ASCE, Bondada Consulting, USA |
| 5:00 - 5:30 p.m. | Closing Reception (CNAM)                                                |                                                                                                                                         |