

MINISTRY  
OF CONSTRUCTION  
& TRANSPORTATION



***U.S.-Korea Transportation Science and Technology Cooperation  
Surface Transportation Experts Workshop***

***“Developing Effective Mass Transit Systems”***



***Honolulu, Hawaii – February 11-15, 2008  
Summary Record of Conference Workshop***

The Department of Transportation Federal Transit Administration hosted the Plenary of U.S. and Korean Surface Transportation Experts Workshop in partnership with the American Public Transportation Association's (APTA) and the City of Honolulu in Honolulu, Hawaii, February 11-15, 2008. The U.S. delegation was led by Ron Hynes, Deputy Associate Administrator for Research, Demonstration, and Innovation, Federal Transit Administration. The Korean delegation was led by Jae-Gil Choi, Director General, Railroad Bureau, Ministry of Construction and Transportation. Both delegations included senior level rail, public transport, and intermodal government experts, academia, and private industry representatives from the U.S. and Korea. Toru Hamayasu from the City of Honolulu provided welcoming remarks on behalf of the Mayor's office followed by opening remarks from Phyllis Davis, Office of the Secretary on behalf of Secretary of Transportation Mary E. Peters. Myoung-Soo Son, Senior Attaché for the Korean Embassy in the U.S., participated in the plenary sessions and contributed highly to the success of the workshop. A list of U.S. and Korean delegates is attached.

During the plenary, the U.S and Korea made presentations and shared information on a host of topics covering urban transit, light rail, traffic safety, accessibility, and intermodal transportation issues (a complete list of topics are listed below).

The participation of representatives from the U.S. and Korean private sector, state and local governments, research institutions, and academia focused on a wide range of government and private sector expertise on new developments in urban and light rail technologies aimed at the improvement and safe operation of our transit systems. Presentations were made by Sang-Youb Lee, Principal Research Engineer, Hyundai Rotem Company; Dong-Seon Ji, Deputy Director, Multifunctional Administrative City Construction Agency; Sang-Jin Han, Research Fellow, Korea Transport Institute; Yeon-Su Kim, Senior Researcher, Korea Railroad Research Institute; Jae-Hwan Maeng, Researcher, Korea Institute of Construction & Transportation Technology Evaluation and Planning; Ki-Han Lee, Professor, Seoul Women's University; Suk-Yoon Han, Chief Researcher, Korea Railroad Research Institute; Myung-Seon Ryou, Team Leader, POSCON Corporation; Gregg Moscoe, Manager, WestStart-Calstart; Alasdair Cain, Senior Research Associate Center for Urban Transportation Research; Rex Gephart, Director of Regional Transit Planning Los Angeles County MTA; Charles Simmons, Facility Services Manager, Lane Transit District; Eugene Nishinaga, Manager of Research and Development, Bay Area Rapid Transit. Kathy Waters, Vice President for Business Services, APTA, also participated in the technical sessions and delivered a presentation on developing and implementing transit standards.

During the week-long sessions, delegates were provided with technical briefings and site tours on state-of-the-art automated vehicle location and hydrogen fuel bus technologies, as well as ferry operations in domestic and foreign cargo service at Honolulu Harbor. The visit concluded with a cultural event hosted by APTA. The next meeting will be held in Korea.

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#### Technical Presentations:

- Magnetic Levitation Research Programs in the U.S
- Korean Urban Maglev
- New Rail Technology in Korea
- Advance Rail Technology in the U.S
- Current Operation and Achievements of the KTX
- Hybrid and Fuel Cell Vehicle Technology in the U.S.
- Developments in Signaling Technologies
- Development Progress in Tilting Train Technology in Korea
- Universal Design in Transit Projects
- Overview of Accessible Transportation in Korea
- FTA's Mobility Access for All Americans Initiative and Remote Infrared Audible Signage Project
- New Technology to Promote Accessibility in Korea
- Development in Smart Card System in Korea
- Transit Intelligent Transportation Systems Programs in the U.S.
- Vehicle Automation and Assist Technology
- Precision Docking Systems in Light Rail
- Developing and Implementing Transit Standards
- Korea's Standards Plan
- How Transit Standards Have Improved Rail Safety

Technical Presentations (Continued):

- Urban Rail Transit Standardization in Korea
- How the U.S. and Korea Can Promote International ITS Standards
- Overview of Bus Rapid Transit in the U.S.
- New Bus Rapid Transit Projects in Korea
- Bus Rapid Transit Vehicles in the U.S.
- Development of Bimodal Tram in Korea
- Bus Rapid Transit in Los Angeles, California
- Bus Rapid Transit in Seoul, Korea
- Bus Rapid Transit Service in Eugene, Oregon
- Bus Rapid Transit System In Multifunctional Administrative Cities in Korea

The U.S. proposed the following topics for cooperation in 2008-2009:

**Session One – Developing Effective Rail Systems**

- Control of permanent magnet and stability of the permanent magnet system.
- Energy consumption of superconducting system.
- The development of cost effective Maglev systems.

**Session Two – Emerging Transport Technologies**

- Sharing of information on environmentally friendly vehicle demonstrations.
- Harmonization of data collection and evaluation.

**Session Three – Developing Accessible Transportation Systems**

- Development of web pages and communication with the disability community.
- Sharing of the US efforts on the Mobility Services for All Americans and the RIAS projects.
- Sharing the outcome of the Korean PPZ pilot study.
- Retrofitting Existing Infrastructure.

**Session Four – New Developments in ITS**

- Development of additional standards for smart card technologies.
- Development of international standards within the ISO Technical Committee 204.
- Sharing of information on vehicle guidance and lane assist and vehicle infrastructure integration.

**Session Five – Transit Standards**

- Continued collaboration with APEC and ITS TCIP issues.

**Session Six – Developments in BRT**

- Collaboration on congestion mitigation projects and research.
- Identify and translate existing BRT materials through partnering with WestStart participant organizations.


**Session Seven – Role of BRT in Congestion Mitigation**

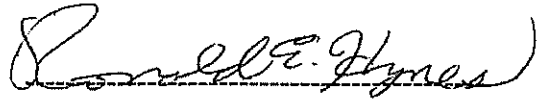
- Evaluation and assessment of BRT vehicles.

**Next Steps**

The U.S. proposes as a next step that working level representatives for both the U.S. and Korea sides be identified within sixty (60) days of this meeting.

Finally, because of an anticipated ministerial restructuring at the Korean Ministry of Construction and Transportation, Korea will have internal consultations before responding to the U.S. proposals. Therefore, Korea has agreed to make a determination for collaboration on the U.S. proposed topics after internal consultation and approval, and report their findings through written communiqué to the U.S. after this meeting.

  
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**Jae-Gil Choi**  
Director General for Railroad Bureau  
Ministry of Construction and Transportation  
Republic of Korea

  
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**Ron Hynes**  
Deputy Associate Administrator for  
Research, Demonstration, and  
Innovation  
Department of Transportation  
United States of America

**Date:** February 15, 2008  
Honolulu, Hawaii

Attachments