

# Future Trends in Energy, Technology & Transportation

*Part of Cascadia's TransTech Leadership Forum Series*

## MAY 31 WORKSHOPS

**Microsoft Executive Conference Center, Redmond, WA**

*Preliminary agenda, updated 05/17. Check website ([www.cascadiaproject.org](http://www.cascadiaproject.org)) for individual workshop agendas.*

This half day of break-out sessions features four concurrent workshops to choose from. A boxed lunch is included and a hosted reception follows.

- 12:00     **Registration and Lunch**
- 1:00     **Choose from Sessions A through D below**
- 4:30     **Reception**
- 5:30     **Adjourn**

### **Session A:**

#### **West Coast Corridor ITS Group**

This workshop on Intelligent Transportation Systems (ITS) features federal, state and local transportation agencies, trucking associations, ports, shippers, universities, and labor and technology sectors. The goal is to develop harmonized West Coast ITS technology to improve freight mobility and security and reduce regulatory burdens on interstate trucking and port access from Baja, California to Alaska.

### **Session B:**

#### **Traffic Light Synchronization: *Evolving Technologies to Fight Urban Congestion***

Urban congestion is a problem that we all face on a daily basis. Our freeways are clogged, our state highways seem like parking lots, our arterials are stop and go, and our surface streets lead to traffic jams. This session will look at evolving technologies that can be used on urban arterials and highways (i.e., off the freeway) to improve traffic flow, reduce traffic clogging accidents, and manage traffic flow in our urban cores. It will also review the challenges and hurdles to effective deployment of these technologies. Technical solutions are successful when appropriately funded, effectively managed, and maintained and supported.

### **Session C:**

#### **Special Needs Transportation**

*Agenda coming soon*

Did you know that there are over 60 federal and state programs that fund special needs transportation—and that they are mostly uncoordinated and therefore overly expensive? This workshop features a coalition of human service organizations, health care providers, and state and local transit agencies that will review a new regional plan to coordinate the myriad of funding programs to reduce overhead, expand service, and explore a potential I-5 medical shuttle for linking North Sound and Seattle.

### **Session D:**

#### **Worldwide Advances in High Speed Ground Transportation**

Soon you will be able to book passage on the Shangri-La Express, a pressurized luxury train that travels over 15,000-foot-elevation passes to Lhasa. And travel through the world's longest tunnel in Switzerland, shaving 2.5 hours off the Zurich-to-Milan trip. Korea will join China and Japan as a home to maglev trains. And here in the Northwest, Alaska cruise-type dome cars will be taking passengers to Whistler and could be running along the shores of Puget Sound and Lake Washington. This session features lectures and demonstrations of exciting new services and technologies in passenger rail and their implications for the world and our Cascadia region.



# Session A: West Coast Corridor ITS Group

MAY 31, 2006

Microsoft Executive Conference Center, Redmond, WA

*Preliminary Agenda Updated 5/23: All speakers are confirmed unless otherwise indicated.*

*Please check website ([www.cascadiaproject.org](http://www.cascadiaproject.org)) for most current agenda.*

- 1:00 p.m. **Welcome: Background and Status**  
Bruce Agnew, Cascadia Center for Regional Development  
Nancy Nihan, TransNow, University of Washington  
Representative from ITS Canada/University of British Columbia—results of Goods, Ports, Borders and Corridors Workshop
- 1:15 **PANEL: Federal Initiatives on Freight Mobility — Joan Yim**, Senior Planner, Ports and Intermodal Transportation, CH2M HILL (moderator)  
Jeff Loftus, Federal Motor Carrier Safety Administration's Office of Research & Analysis, Technology Division  
Mike Onder, Freight Operations and Technology, U.S. Dept. of Transportation's Office of Freight Management
- 1:45 **PANEL: West Coast Regulatory and Technological Challenges**  
• **Trucking Industry**  
Bart Cima, IBI Group— Presentation: IBI/WSDOT Smartpark Initiative for truck rest areas  
Michael Bell, Alaska Trucking Association (*invited*)  
Mike Campbell, California Trucking Association (*invited*)  
Dan Gatchet, West Coast Trucking and Washington Trucking Association  
• **Maritime Labor Perspective**  
Harold Ugles, Local 19, International Longshore and Warehouse Union
- 2:45 **DISCUSSION: Finalization of West Coast ITS Group and Trucking Industry Plan**  
Rest stops, one-stop permitting, and coordinated West Coast trucking surveys
- 3:00 **Break**
- 3:15 **DISCUSSION: University Transportation Centers and ITS Funding**  
Genevieve Giuliano, METRANS Transportation Center, University of Southern California  
Nancy Nihan, TransNow, University of Washington  
Invited representatives from University of British Columbia, Western Washington University, Washington State University, Oregon State University, Portland State University, University of Southern California, and University of California at Berkeley
- 4:00 **Meeting with I-95 Corridor Coalition (concurrent session with Traffic Light Synchronization and Incident Management workshop)**  
George Schoener, executive director, I-95 Coalition  
• Original governance and continuing finance for I-95 Corridor Coalition — a case study for WCCC  
• The Coalition's role in improving and coordinating multi-state ITS initiatives — a potential joint project with WCCC  
• The Coalition's role in regional traffic operations
- 4:30 **Reception**  
5:30 **Adjourn**



# **Session B: Traffic Light Synchronization**

## *Evolving Technologies to Fight Urban Congestion*

**MAY 31, 2006**

**Microsoft Executive Conference Center, Redmond, WA**

*Preliminary Agenda Updated 5/18: Confirmed speakers are so indicated.*

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- 1:00 p.m.    **Introduction and Context**  
              Jerry Hautamaki, HNTB (*confirmed*)
- 1:10        **Benefits From Arterial Signal Coordination**  
              Paul Olsen, FHWA (*confirmed*)
- 1:25        **Regional Integration, Effective Control Center to Center Communications**  
              Michael Wieck, Siemens ITS (*confirmed*)
- 1:45        **Vehicle Infrastructure Integration (VII), Overview of USDOT Program**  
Intersection Accident Prevention, One Goal of VII  
              Tim McGuckin, IBTTA (*confirmed for video conference*)
- 2:05        **Dedicated Short Range Communications (DRSC) Industry Consortium**  
              Filip Weytjens, TransCore (*confirmed for video conference*)
- 2:25        **Urban Congestion Charging Zones, Successes From London to Singapore**  
              Jack Opiola, Booz Allen Hamilton (*confirmed*)
- 2:45        **Break**
- 3:00        **Challenges and Hurdles to Effective Surface Street Operation**  
Policy and Funding Challenges  
              Paul Olson, FHWA (*confirmed*)
- 3:15        **How Would Our Urban Street Systems Work Differently If Agencies Were  
"Paid for Good Performance"?**  
              Mark Hallenbeck, Washington State Transportation Center (TRAC) (*confirmed*)
- 3:30        **Moderated Panel Discussion:**  
**Integrating and Implementing Better Urban Street Grids**  
              Moderator: Jerry Hautamaki, HNTB (*confirmed*)
- 4:00        **Meeting with I-95 Corridor Coalition**  
Concurrent session with West Coast Corridor ITS Group Workshop
- 4:30        **Reception**
- 5:00        **Adjourn**



# Session D: Worldwide Advances in High Speed Ground Transportation

MAY 31, 2006

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1:00 PM – 4:30 PM

*Agenda as of 05/22: Confirmed speakers are so indicated.*

## 1:00 Passenger Rail Developments

Tom Till, Cascadia Center – Developments in North America (*confirmed*)

- Puget Sound – The rebirth of the DMU and its potential in Puget Sound
- An update on Amtrak management, funding, and reauthorization
- Rail service developments in Canada – Vancouver-Whistler
- Land Cruising by Rail – New luxury rail tours coming to North America

Lloyd Flem, WashARP – Developments in Continental Europe, and Asia (*confirmed*)

- Among other topics, traveling through the world's longest tunnel in Switzerland, shaving 2.5 hours off the Zurich-to-Milan trip; and
- New Chinese passenger rail coaches pressurized for 15,000-foot mountain passes

Loren Herrigstad, WashARP – Developments in the United Kingdom (*confirmed*)

- Recent developments in the continuing revolution of Britain's rail system

## 2:15 Maglev Technology – an Introduction to the Present and The Future

Leonard F. Newstrum, Town of Yarrow Point, Representative to I-405 Corridor Program

Steering Committee & SR-520 Bridge Replacement Committee – Moderator (*confirmed*)

An overview of maglev technology that will cover:

- Maglev technology concepts – urban and intercity, current and advanced
- Urban Maglev systems in China, Japan, and soon in Korea;
- Urban Maglev research and development projects, Federal Transit Administration

## Incorporation of High-Speed Frictionless Maglev, Advanced Tunneling Technologies and Reduced Atmospheric Pressure—Swiss Concept, Chinese and American Interest

Brad Swartzwelter, Author, *Faster Than Jets*, Alder Press, 2003 (*confirmed*)

- There is a surface transportation system that would exceed the performance of jet airplanes, be operationally sustainable, and environmentally acceptable. Dramatic advances in maglev train engineering, combined with new, economical tunneling techniques have brought such a system within reach.
- The concept was first studied at the Swiss Institute of Technology in Lausanne, and is currently a topic of serious research at Tsinghua University in China.

Jim Fiske, Magtube Corporation (*confirmed*)

- Magtube indicates that it is “building a new type of network ... to transport magnetically levitated freight capsules” for “light freight of all types.” Magtube says that their network should be thought of “as an Internet for packages.”

## 3:15 Break

## 3:30 Contemporary Urban Maglev Applications—Asian Systems and U.S. Demos

Koji Kubota, Itochu Corporation (*confirmed – by teleconference from Japan*)

- Chubu developed the HSST technology currently in revenue service in Nagoya, Japan, on the Tobu-Kyuryo Line (TKL), which is operated by the Aichi Rapid Transit Company. A linear induction motor (LIM) powers the HSST.

Conrad Blankenzee, Rotem Corporation of Hyundai Motor Group (*confirmed*)

- Rotem is currently developing an urban maglev similar to the Chubu HSST. Construction of a 1-kilometer starter system is underway in DaeJeon, Korea, that will open to the public in Spring 2007.

## 4:30 Workshop Adjournment

## 4:30-5:30 Hosted Reception



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## JUNE 1 CONFERENCE

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*Preliminary agenda, updated 05/24. All speakers are confirmed unless otherwise indicated.*

- 7:30 a.m.     **Registration**
- 8:30     **Welcoming Remarks**  
          **Bruce Agnew**, Cascadia Center  
          **Tom O'Neil**, Microsoft
- 8:40     **Maritime Security and Real World Implications**  
          **Hon. Adam Smith**, U.S. House of Representatives  
          **Timothy J. Farrell**, Port of Tacoma
- 8:50     **Transportation, Urban Design, Telecommunications & Sustainability**  
          **Gary Lawrence**, Arup

### MORNING SESSION

- 9:00     **Existing and Future Technology**— **Grant Degginger**, Mayor, City of Bellevue and  
          **Rosemarie Ives**, Mayor, City of Redmond  
          **Brian Brooke**, Sound Transit — SmartCard Update  
          **Jerry Hautamaki**, HNTB — Update from April 12 Tolling Forum  
          **Walter Kulyk**, Federal Transit Administration – Maglev: As It Is Being Used Today and Plans  
          for Its Use in U.S. Demonstration Projects  
          **Brian Mills**, TransLink — Technology, Security and the Legacy of the Vancouver 2010  
          Olympics  
          **Matt Mullett**, All American Marine — High-Speed Boats  
          **Jack Opiola**, Booz Allen Hamilton — Transport Technology for the Athens 2004 and  
          London 2012 Olympic Games  
          **Ron Posthuma**, King County Metro — Bus Rapid Transit and HOT Lanes
- 10:45     **Break**
- 11:00     **Port/Border Security, Freight Mobility and Emergency Communications for  
Disasters and Terrorist Attacks**  
          **Hon. Dave Reichert**, U.S. House of Representatives, Chair, House Homeland Security  
          Subcommittee on Emergency Preparedness, Science and Technology
- Response to Rep. Reichert** — **John Niles**, Global Telematics and **Michael Zachary**,  
Port of Tacoma  
          **Dick Dickinson**, TeleCommunications Systems, Inc. (TCS)  
          **Gary Brown**, West Coast International Longshore and Warehouse Union (*invited*)  
          **Jim Mullen**, Emergency Management Division, Washington Military Department  
          **Dr. Ned Wogman**, Homeland Security Programs, Pacific Northwest National Laboratory



## Luncheon Program

12:00 p.m.     **Boxed lunch**

12:10     **Keynote**

**Hon. Maria Cantwell**, U.S. Senate

**Tom Richey**, Director, Homeland Security Practice, Microsoft

**Continuation of 11 a.m. Homeland Security panel discussion**

## Afternoon Session

1:10     **Energy-Saving Cars, Trucks and Buses**

*Biofuels and Electric Plug-In Hybrids*

**Dr. Andrew Frank**, University of California, Davis

**Felix Kramer**, CalCars (The California Cars Initiative)

1:40     **Vehicle Demonstration & Break**

1:55     **Plug-In Hybrid Partnership**

**Roger Duncan**, Managing Dir., Plug-In Partners (via videotape)

2:00     **Energy/Security Education**

**Greg Shelton**, Dir., Global Trade, Transportation & Logistics Studies (GTTL), Univ. of Wash.

2:05     **Prescriptions for U.S. Energy Policy — Steve Marshall**, Chair, Municipal League

**Hon. Sam Brownback**, U.S. Senate — *via teleconference*

**Paul Genoa**, Director, Policy Development, Nuclear Energy Institute

**Ed Furia**, CEO, AFS Trinity Power Corp., former Reg. Admin., EPA — 250 MPG plug-in hybrid

**K.C. Golden**, Policy Director, Climate Solutions

**Hon. R. James Woolsey**, Vice President, Booz Allen Hamilton, Inc., former Dir. of CIA

3:45     **Regional Energy Views — Steve Marshall**, Chair, Municipal League

**Susan Fahnestock**, The Green Car Company, Kirkland, WA

**Rich Feldman**, Apollo Alliance

**Hon. Janéa Holmquist**, WA State House of Representatives

**Hon. Doug MacDonald**, Secretary, WA State Department of Transportation

**Hon. Tim Sheldon**, WA State Senate (*invited*)

**Martin Tobias**, Imperium Renewables (formerly Seattle Biodiesel)

5:00     **Hosted Reception**

6:00     **Adjourn**

