



## Workshop on Research Needed to Support Vehicle-Infrastructure Cooperation

July 20-21, 2004

Embassy Suites Hotel Detroit - North / Troy  
850 Tower Drive, Troy, MI 48098  
248-879-7500

*Sponsored by:*

TRB Committee on Vehicle-Highway Automation (AHB30)

TRB Committee on Intelligent Transportation Systems (AHB15)

Michigan DOT

ITS Michigan

ITS America Forum on Research Integration Training and Education

ITS America Forum on Automotive Telecommunications and Consumer Electronics

**Workshop Purpose:** Bring research and broad transportation stakeholder interests to the table; develop and explore research questions that are important to support development and deployment of vehicle-infrastructure cooperation, e.g., VII.

**Workshop Objective:** Identify basic components and priorities for a 5- to 10-year program of research that will support the implementation of a cooperative vehicle-infrastructure<sup>1</sup> environment in the U.S. Produce *Research Action Plan for Vehicle-Infrastructure Cooperation*.

**Workshop Process:** We will start with panel discussions to provide the perspectives of experts from a variety of stakeholder backgrounds, then spend most of the time in breakout group discussions. Throughout, we will aim to place the research in an operational context, based on vehicle-infrastructure cooperation services and real-world deployment considerations.

### Monday, July 19, 2004

6:00 pm-8:00 pm    Registration Desk Open

### Tuesday, July 20, 2004

8:00 am    Registration Open / Coffee

8:30 am    Introduction to Workshop: Objectives, Processes, Product

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<sup>1</sup> Note an important definition: “infrastructure” not only includes publicly-owned facilities and their operation but privately operated landside operations as well, e.g., telematics, infotainment, traffic services, probe processing, and potentially ACN handling.



## Tuesday, July 20, 2004 (continued)

### 8:50 am Vehicle-Infrastructure Cooperation Scope

- Broad Concept and Vision
- User Services to support needs of vehicle and infrastructure operators  
Mike Noblett, SEI Information Technology  
Mike Freitas, USDOT ITS Joint Program Office

### 9:40 am Emerging National Interest: Roundtable with Q&A

Brent Bair, Road Commission for Oakland County / Chair, ITS America Board

Jim Wright, AASHTO and Minnesota DOT

Martin Rowell, Navteq

Joe Avercamp, Sprint PCS

- Instructions for Breakout Round 1

### 10:45 am Break

### 11:15 am Breakout Round 1: What's the Environment?

A breakout to discuss predetermined factors and critical uncertainties which provide the environment for vehicle-infrastructure cooperation

**(Lunch served in Breakout Rooms ~Noon)**

### 1:30 pm Breakout Reports: Results of Environmental Scans

### 2:30 pm Targeted User Services Panel: Introducing user services that could benefit from vehicle-infrastructure cooperation

David Zavattono, Illinois DOT

Chris Wilson, DaimlerChrysler RTNA

John Collins, Mobility Technologies, Inc.

Jeff Green, AAA

- Instructions for Breakout Round 2

### 3:30 pm Break

### 4:00 pm Breakout Round 2: Targeted User Services

A breakout to discuss user services that could benefit from vehicle-infrastructure cooperation

### 5:30 pm Adjourn

### 6:00 pm Dinner at Meadowbrook Hall (Sponsored by ITS Michigan)

**Speaker: Gloria Jeff, Director, Michigan Department of Transportation**



## **Wednesday, July 21, 2004**

**7:30 am Registration Open / Coffee**

**8:00 am Breakout Reports: Targeted User Services**

- Instructions for Breakout Round 3

**9:00 am Breakout Round 3: Pathways to Deployment**

A breakout to discuss (and identify solutions to overcome) technical, institutional and economic issues for vehicle-infrastructure cooperation

**10:30 am Break**

**11:00 am Breakout Reports: Pathways to Deployment**

- Instructions for Breakout Round 4

**12:00 noon Lunch provided in individual Breakout Rooms**

**12:30 pm Breakout Round 4: Identify Enabling Research Needs**

A breakout to discuss specific research needs, programs and projects that could be conducted in a 5- to 10-year horizon to facilitate vehicle-infrastructure cooperation

**2:00 pm Break**

**2:30 pm Breakout Reports: Contributions to a Research Agenda**

**3:30 pm Closing Remarks / Adjournment**

**4:00 pm Local Technical Tours of related advanced transportation technologies in the Detroit area (further details to come – watch this website!)**

**Note: There are two additional events scheduled immediately following this Workshop (further details can be found elsewhere on this website):**

- 1. A one-day focused workshop entitled "Truck Automation: Opportunities & Deployment Paths" to be held on Thursday, July 22 immediately following the TRB Workshop. This Workshop is being sponsored by the International Task Force on Vehicle-Highway Automation (This Task Force is not affiliated with TRB). A separate registration fee is required to attend this Workshop.**
- 2. A 1.5-day meeting on the ITS America's ATCE Map Database Visionary Requirements Development to be held Thursday, July 22 through noon,– Friday, July 23. A separate registration fee is also required to attend this meeting.**