



Transportation Seminar Series

*Friday, February 6, 2009
4 - 5 p.m. in 240 Bechtel Engineering Center*

James A. Misener

Executive Director
California Partners for Advanced Transit and Highways
UC Berkeley

Connecting the Roadside, Car and Traveler: Research in Technologies and Services

Abstract: Advances in consumer electronics have put in the hands of the traveler, potentially most every traveler, wireless connectivity and high-precision geolocation – or where on a map a connected device may be. This offers the prospect of personalization, ubiquitous connectivity and traveler information delivered with a degree of reliability, accuracy and spatial fidelity barely envisioned a few years ago. It is today not difficult to imagine real-time traffic pushed to your smartphone (well-described in last week’s seminar). What may be more difficult to envision is what may be next. In this talk, the progression from the emerging state of smartphone-based and -enabled set of services is discussed, beginning with research on a set of transit-, multi-modal and safety applications, then continuing to research on communication of road information to enable both safe and eco-friendly driving. The talk will conclude with potential ‘end states’ where low latency safety-of-life communications may provide a technology-based safety net over our roadways or open the door for automated driving. The aim of the talk is to inform and discourse whether the beginnings of this technology-enabled progression of traveler information services realistically portends these ‘end states’ or perhaps point toward a different future.

Bio: James A. Misener is currently the Executive Director of the California Partners for Advanced Transit and Highways (PATH) at UC Berkeley. In his thirteen years at PATH, he has led numerous Intelligent Transportation System (ITS) projects at PATH, with sponsorship from US DOT (FHWA, FTA, FMCSA), Caltrans and a host of vehicle manufacturers. For six years, Mr. Misener served as the Transportation Safety Research Program Leader at PATH. Recently, Mr. Misener has led the VII deployment test bed in California, which is the foremost such test facility in the United States and served as part of the award of the SafeTrip-21. Mr. Misener currently co-leads the RITA-, Caltrans- and privately-sponsored SafeTrip-21 research effort at PATH, Networked Traveler.

Mr. Misener is member of IEEE, the TRB Committee for Vehicle-Highway Automation, the SAE DSRC Technical Committee. He is on the ITS America Automotive, Telematics and Consumer Electronics Steering Committee, and is the current chair of ITS California. Last year, he was chair of the 11th Avenue Theater active safety and autonomous vehicle demonstrations at the 15th World Congress on ITS, New York. Jim Misener is on the Editorial Board of the *Journal of Intelligent Transportation Systems*, and has been guest editor of the “Intelligent Transportation Systems and Safety” issue. Mr. Misener holds BS and MS degrees from UCLA and USC.

Please join us for a TRANSOC-sponsored cookie hour in the ITS library at 3:30 p.m.