



Institute of Transportation Engineers  
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S U M M E R 2 0 0 6

M & O / I T S C o u n c i l U P D A T E

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**UPCOMING M&O/ITS  
 COUNCIL MEETING**

The next meeting of the M&O/ITS Council will be held on Sunday, August 6, 2006 at 1:00 p.m at the ITE Annual Meeting and Exhibit meeting in Milwaukee, WI, in the Oak Room (Level 4) at the Hilton. Everyone is welcomed! Visit [www.ite.org/annualmeeting](http://www.ite.org/annualmeeting) for more information.

**FROM THE M&O/ITS COUNCIL CHAIR**

Chairman's Message



Les Jacobson  
 M&O/ITS Council Chair

There are a number of items listed below that I would like to bring to all Council members' attention. You may know about some or all of them already, but I think it is important to make sure you get the information:

**Update on ITS M&O Recommended Practice**

The Council has a committee that has determined the need to update the 1999 ITS Management and Operations Recommended Practice. Walter Kraft is chairing this effort. The committee reviewed the existing document and provided comments on the extent to which each practice area needs revision. Additional committee members are welcome. Stay tuned and we will keep you informed about this important effort.

**511 Conference: Where Travel Starts**

The National 511 Conference will take place July 17-19, 2006 at the Westin Horton Plaza Hotel in San Diego, California. The agenda includes sessions designed for those new to 511 and those who have extensive experience in 511. If you aren't planning to attend the conference, but are interested in the topic, please check for information provided on the Web site, [www.deploy511.org](http://www.deploy511.org).

**National Transportation Operations Coalition (NTOC)**

The summer meeting of the National Transportation Operations Coalition (NTOC) was held on June 14, 2006. Some of the items covered included: recommendation for the next signal report card; the start of a new effort to enhance the performance measures work already carried out; preliminary results from a project to define the business case for transportation management and operations; and a discussion on operations and economic development. Many of these topics will be covered in upcoming issues of *NTOC Talks*, an electronic newsletter of the Coalition. I hope you all saw the e-mail this spring about *NTOC Talks*. Most of the information reported in *NTOC Talks* is included in this message as well.

The Coalition distributes *NTOC Talks* every other Wednesday. Council members are encouraged to subscribe to this free resource. Simply send an e-mail to the NTOC communications liaison, Michelle Birdsall, at [mbirdsall@ite.org](mailto:mbirdsall@ite.org) with the word "subscribe" in the subject header.

In addition to the e-newsletter, the NTOC Web site, [www.ntoctralks.com/index.php](http://www.ntoctralks.com/index.php), is a valuable resource that includes discussion forums, the Talking Operations Web conference series, links

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to ITS and M&O resources, calendars of events and training opportunities and a Web version of the *NTOC Talks* newsletter that is updated in between e-mail distribution dates. You can also access an archive of past newsletter issues on the site. If you have any questions about the newsletter or Web site, please contact Michelle Birdsall at 202-289-0222 ext. 139.

### **ITE 2006 Annual Meeting and Exhibit: August 6–9, 2006**

Register now for the 2006 Annual Meeting and Exhibit, which will be held in Milwaukee, Wisconsin at the Midwest Airlines Center on August 6-9. The meeting will offer 55 technical sessions divided into five tracks. The tracks are Planning, Engineering and Design, Safety, Mobility and Operations and Implementing Transportation Solutions/Professional Development. Visit the ITE Web site to register and view the preliminary program at [www.ite.org/annualmeeting](http://www.ite.org/annualmeeting).

The M&O/ITS Council executive committee will meet on Sunday August 6th (see the inset on page 1). I encourage any Council member interested to attend the meeting.

### **ITE 2007 Technical Conference and Exhibit**

Next spring's conference will be held in San Diego, California, March 25–28, 2007. The focus will be on congestion. It will feature management and operation issues, and significant portions of the

program will include information regarding managed lanes/congestion, pricing/tolling and land use/economic development. Please mark your calendars and plan to attend!

There are a few other projects that ITE is involved with that I think council members may be interested in:

- **National Traffic Incident Management Coalition (NTIMC).** In order to reduce incident-related congestion and improve responder and motorist safety, NTIMC is initiating the development of a National Unified Goal (NUG) for traffic incident management. In support of this effort, ITE is hosting a session at the 2006 Annual Meeting and Exhibit to provide input on the creation of a NUG.
- **Signal Timing Manual.** ITE is a partner in the development of a traffic signal timing manual. We expect the completed manual to be published as an ITE report.
- **Freight Project.** ITE is in the midst of a project for FHWA to identify notable practices in urban goods movement and is developing a suite of case studies and possible training materials.

As always, please feel free to contact me if you have any thoughts on what the council could be doing or items you'd like to be involved with. My e-mail address is [jacobsonL@pbworld.com](mailto:jacobsonL@pbworld.com).

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## **2006 M&O/ITS Council Executive Committee Officers:**

### **Chair:**

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## **MANAGING TRAVEL FOR PLANNED SPECIAL EVENTS: SECOND NATIONAL PLANNING CONFERENCE**

**Hyatt Regency Newport Beach Hotel, Newport Beach, CA**

**November 29–December 1, 2006**

*Non-recurring congestion—whether the result of planned special events or traffic incidents—causes unexpected travel delay by increasing traffic demand or reducing roadway capacity (e.g., street closures for parades). These delays are unlike congestion caused by routine traffic during daily peak travel periods.*

Transportation and public safety professionals who attend this national conference will come away with practical tools for better management of transportation for planned special events. You will learn how to adapt techniques used for major national and international events to manage events of all sizes in your community. You will learn why and how to conduct a tabletop exercise to prepare for planned events.

The conference will be organized with three concurrent tracks: Planning, Operations and Evaluations. Examples of topics relevant to one or more of the tracks include:

- Contingency planning (weather, security, crowds)
- Feasibility study (travel forecast, traffic/parking study)
- Freeway/street/intersection traffic control
- Intelligent transportation systems applications
- Interagency communications
- Operations strategies: innovative and/or successful ideas
- Regional programs and initiatives
- Site access, parking and pedestrian access
- Surveys, debriefings and reports
- Traffic and conditions monitoring
- Traffic management plans
- Traffic management teams
- Transit service
- Travel demand management
- Traveler information dissemination
- Stakeholder simulation exercises

The panel sessions will feature three to four presenters; each will deliver a podium presentation followed by an opportunity for questions. Case study session participants will provide an in-depth presentation of a planned special event occurrence with interaction by the audience. The technology exchange poster session will contain visual displays on exhibit allowing for one-on-one peer exchange and discussions.

Please plan to attend this extremely important and timely conference. For more information, contact Laurie Radow at [Laurel.Radow@fhwa.dot.gov](mailto:Laurel.Radow@fhwa.dot.gov).

### **Developing a National Unified Goal for Traffic Incident Management**

The opening session of the planned special events conference on November 29th will present the results of the November 28–29 conference sponsored by the National Traffic Incident Management Coalition (NTIMC) to discuss development of a National Unified Goal (NUG) for traffic incident management. The NUG will be a national action plan for reducing responder deaths and traffic congestion through better management and safer, quicker clearance of traffic incidents. If your national public safety or transportation organization is interested in sending a delegate to the NUG conference, contact Karen Haas at 301-762-4227 or [editorsink@starpower.net](mailto:editorsink@starpower.net). NUG conference delegates are encouraged to stay over and also participate in the November 29–December 1, 2006 planned special events conference.

# 2006 M&O/ITS COUNCIL AWARDS

*Ken Voorhies, P.E., PTOE, Cambridge Systematics*

The M&O/ITS Council Achievement Awards recognize public/private partners and individuals for outstanding contributions to the advancement and implementation of ITS technologies. Awards are presented for the development and/or implementation of notable projects that demonstrate the use of ITS technologies to improve the efficiency and/or safety of transportation facilities. The awards committee of the M&O/ITS Council has selected the following recipients for 2006.

## **M&O/ITS Project of the Year**

**The East Bay SMART Corridors Program** is a cooperative effort by 25 local, regional and federal agencies to plan and implement a multi-modal advanced transportation management system along the San Pablo Avenue (I-80) and the I-880 corridors. The project is sponsored and managed by the Alameda County Congestion Management Agency (CMA).

The goals of the project are:

- to allow the participating agencies to better manage congestion and incidents along regional routes;
- to improve transportation mobility, efficiency and safety; and
- to provide timely, multi-modal transportation information to agency transportation managers and to the public.

As the lead agency, the Alameda County CMA obtained the initial funding for the project, selected a consultant team to plan, design and implement the SMART Corridors program, and is managing all aspects of the program through a collaborative process with other agencies.

Initially, memorandums of understanding were adopted for the program. Later, binding agreements were developed for construction of the improvements. Finally, in order to operate and maintain the system, a binding ownership, management and operations (M&O) agreement was developed and approved by all operating agencies. The M&O agreement outlines the day-to-day and ongoing operational requirements for the program, through an M&O manual. Maintenance contractors have been retained for the maintenance of the program.

The East Bay SMART Corridors program is an excellent example of a well-defined and managed regional, multi-modal transportation management system. The program is a result of the leadership of a regional congestion management agency that has brought the needs and issues of local, regional, federal, transit and emergency management services into a forum to plan, develop, implement and operate a regional system.

## **M&O/ITS Person of the Year**

**Jeffrey F. Paniati, P.E.**, of the Federal Highway Administration (FHWA) was selected as the M&O/ITS Person of the Year. In December 2002, Jeff was designated as the FHWA Associate Administrator for Operations. He is responsible for Intelligent Transportation Systems (ITS) deployment, congestion management, traffic operations and analysis, freight operations, emergency management, operations security, work zone operations and the *Manual on Uniform Traffic Control Devices*. In addition, Jeff is currently the Acting Program Manager of the Intelligent Transportation Systems Joint Program Office (ITS JPO). Jeff was one of the primary forces that shaped the Safe, Accountable, Flexible, Efficient Transportation Equity Act (SAFETEA) and SAFETEA—A Legacy for Users transportation bills with operations as one of each legislation's emphasis areas.

Previously, Jeff spent two years as the program manager for ITS in the U.S. Department of Transportation (USDOT). In this capacity, he led the \$200+ million annual federal ITS program and directed the day-to-day operations of the ITS JPO. The ITS program is focused on bringing advanced communication and information system technologies to the management and operation of the surface transportation system. The ITS JPO has responsibility for planning, directing and coordinating this program across USDOT. Prior to becoming acting program manager, Jeff served as deputy director of the ITS JPO for three years.

Before coming to the ITS JPO, Jeff held the position of chief, Safety Design Division in the FHWA Office of Research and Development. In this capacity, he led the Agency's efforts to develop new technologies, procedures and methods to enhance state-of-art advancements in highway safety.

Jeff has 22 years' experience with FHWA, primarily in the areas of safety, traffic operations and ITS. He has a bachelor of science degree in civil engineering from the University of Connecticut and a master of science degree in civil engineering from the University of Maryland. He is a registered professional engineer in Virginia.

Jeff is active in both the Institute of Transportation Engineers (ITE) and the Transportation Research Board (TRB). He has served as chair of the TRB Committee on Safety Data, Analysis and Evaluation and the ITE Traffic Engineering Council. He is a past president of the Washington, DC Section of ITE.

Thanks to committee members Kenny Voorhies (Chair), Bart Cima, K.R. Marshall, Jeff Benson and Daryl Taavola for their efforts in evaluating the nominations and selecting the winners.

# DETROIT AREA OPERATIONS PARTNERING WORKSHOP

Mia Silver, P.E., PTOE, MDOT

The Operations Partnering Workshop, hosted by the Michigan Department of Transportation (MDOT) at Ford Field on March 1, 2006, brought together more than 80 people from 40 agencies for an interactive morning focused on working together to improve traffic operations. The objectives of the workshop were to *connect* with people from different organizations and *learn* good practices from presentations and others participating in the workshop.

Captain Bob Clark, Michigan State Police 2nd District, facilitated the event, which included "quick hit" presentations in three tracks, with time in between for participants to meet and discuss operations. Networking activities were provided for break times to encourage interaction across agencies. One networking activity, "Enter to Win," collected stories about the benefits of agency-to-agency interaction and highlighted many good examples of the benefits of cooperation, including this from Commander Plummer, Detroit Police Department: "During the Super Bowl event, the department experienced a wonderful working relationship with all agencies with the new 800 MHz radio system, which made the event even more successful."

Presentations in the *Coordinate* track included Detroit Central Events by Mia Silver of MDOT; Regional Operations by Tom Bruff of the Southeast Michigan Council of Governments; and Freeway/Arterial Cooperation by Gary Piotrowicz of the Road Commission for Oakland County. Each presentation highlighted benefits of coordinating across agencies for improved operations.

Neal Belitsky of the Detroit and Canada Tunnel Corporation led the next track, *Communicate*, with Border Communication, followed by "Identifying Problems/Finding Solutions" by Dan Hancock, Michigan State Police. The last presenter in this track was Sarah Gill, URS Corp speaking on outreach/sharing resources.

The third track, *Next Steps*, included presentation on ITS Initiatives by Greg Krueger, MDOT; "Video Sharing" by Mia Silver, MDOT; and "Connecting Agencies" by Steve Crain, TransCore ITS.

The workshop aligned closely with the goals and activities of the "Regional Concept for Transportation Operations," led by Southeast Michigan Council of Governments and funded by a Federal Highway Administration grant to further develop a framework for regional operations. Since the event was such a success, plans for an annual Operations Partnering Workshop are being considered.

## ITE M&O/ITS COUNCIL OFFICERS AND TASK COMMITTEES

ITE M&O/ITS Council Task Committees provide an opportunity for ITE members interested or working in the field to get involved at national or international levels.

Please contact a committee chair if you are interested in participating on any of the following committees:

**Awards:** Solicit nominations and select winners for the annual ITS Council awards program. *Chair: Kenneth Voorhies.* Phone: 770-509-2233. Fax: 770-509-2207. E-mail: kvoorhies@camsys.com.

**Information/Newsletter:** Develop and distribute information on ITS and M&O to ITE members, decision makers and the general public. Prepare ITS/M&O Council newsletter and ITS/M&O articles for *ITE Journal*. *Editor: Beata Lamparski.* Phone: 248-454-6300. Fax: 248-338-2592. E-mail: blamparski@hrc-engr.com.

**Incident Management:** Promote successful deployment of regional traffic incident management programs. Facilitate a Traffic Incident Management Network to link traffic incident management professionals, and to promote and support existing national incident management groups. *Chairs: John Corbin,* Phone: 608-266-0459. Fax: 608-267-7856. E-mail: john.corbin@dot.state.wi.us and *Steve Cyna.* Phone: 414-359-2300. Fax: 414-359-2310. E-mail: scyna@hntb.com.

**Standards:** Generate input from ITE members and determine needs for ITS standards and protocols. Initiate and oversee ITE ITS standards development activities, including TMDD, MSETMCC, TCIP and NTCIP. *Chair: Raman Patel.* Phone: 714-541-3597. Fax: 718-458-7084. E-mail: rkpatelassociates@msn.com.

**Technical Programs:** Develop ITS Council-sponsored sessions for ITE Annual Meetings and Conferences, ITS World Congress and other conferences as requested. Review abstracts and papers submitted for presentation. *Chair: Barbara Schroeder.* Phone: 303-863-7900. Fax: 303-863-7110. E-mail: BARBABA.SCHROEDER@parsons.com.

**TMC Committee:** Develop forum for operators of traffic management centers to exchange information and ideas. *Chairs: Mia Silver,* Phone: 313-256-9800 ext. 304. Fax: 313-256-9036. E-mail: silverm@michigan.gov and *Jessie Yung.* Phone: 202-366-4672. Fax: 202-366-8712. E-mail: Jessie.Yung@fhwa.dot.gov.

**Systems Management and Operations:** Develop specific applications of computer and communications technologies to operations. *Chair: Pat Noyes.* Phone: 303-440-8171. E-mail: pat@patnoyes.com.

# ITS STANDARDS DEVELOPMENT: NEW INITIATIVES & UPDATES

*Raman K. Patel, Ph.D., P.E., RkPatel Associates*

## Standards for Traffic Management Center to Center Communications

The Traffic Management Data Dictionary (TMDD) standard will be updated as version 3.0 (v3.0) over the next 20 months. The project team is headed by Consystech Corp. and the project will be supervised by the TMDD Joint Committee, headed by Robert Rausch and ITE staff and sponsored by FHWA.

The key objectives for the TMDD v3.0 standard are:

- Correct the deficiencies from current version 2.1 by addressing comments from various parties and as identified in the Generic Reference Model (GRM).
- Assess needs, requirements and design element inputs as requested by the *Clarus* (the FHWA weather management initiative), Conditional Acquisition and Reporting System (CARS) states and Archived Data User Service (ADUS).
- Assess issues and integrate lessons learned from current deployments, specifically CARS, Transportation Operations Coordinating Committee, Florida DOT and Texas DOT into the TMDD Concept of Operations, requirements and design.
- Use a systems engineering process to ensure the completeness and correctness of TMDD v3.0 documents. The standard must be traceable and logically consistent.
- Develop TMDD v3.0 conformant to ISO 14817.
- Develop a TMDD v3.0 Web Services Description Language (WSDL)/Simple Object Access Protocol (SOAP) specific model.
- Develop a detailed conformance statement that addresses backwards compatibility and provides clear and unambiguous instruction on how to extend the standard.
- Participation in meetings by the chairman and/or a consultant of the following standard areas: ATIS, Transit Communications Interface Profile (TCIP), IM, NTCIP Center-to-Center (C2C) and ADUS. A representative from the *Clarus* initiative should also be attending these meetings.

As intended by the user community and TMDD Joint Committee, this updated TMDD v3.0 will facilitate C2C communications by offering data elements, messages sets, dialogs, and protocols necessary for information exchange, including DATEX (DATA EXchange) and XML/SOAP approaches. With the inclusion of WSDL specifications, traffic management centers will be able to post their information for wider use by external centers desiring communications. It is anticipated that TMDD v3.0 will be a significant standard in the ITS community.

## TMDD Guide Updates

A newly revised draft TMDD guide that explains the current TMDD standard and provides additional information on C2C communications concepts has been prepared by Dr. Raman Patel under supervision from a review panel and the TMDD committee. The TMDD guide will be made available at the ITE Web site shortly.

## NTCIP 1203 DMS version 2.0

A draft standard of the NTCIP 1203 DMS version 2.0 was recently reviewed by the NTCIP Joint Committee in Denver, and was referred back to the DMS working group for some additional work in the area of backward compatibility.

## ITS Standards Outreach, Education and Training (OET)

The OET program for 2006 has been initiated to visit about 12 locations in the country and will end in August 2006.

A Web-based 90-minute pilot program sponsored by FHWA that includes an overview of ITS standards for decision makers is under development by the ITE team. The pilot program is tentatively scheduled to be tested on August 28, 2006 and will measure the effectiveness of the medium and audiences' needs.

Questions on ITE's standards efforts can be directed to Dr. Raman Patel, chair of the ITS Standards Committee, at 718-541-3597 or e-mail [rkpatelassociates@msn.com](mailto:rkpatelassociates@msn.com).

# INTELLIGENT TRAFFIC SIGNAL OPERATIONS COMMITTEE GEARING UP TO PROVIDE SERVICES

*Pei-Sung Lin, Ph.D., P.E., CUTR, University of South Florida*

The Intelligent Traffic Signal Operations Committee was established under the M&O/ITS Council in October 2005. The winter 2006 M&O/ITS Council newsletter had an article that introduced this committee and its purpose. This article is an update to let readers know what progress has been made in the last six months.

## **Overview of Six Subcommittees**

The goal of the Intelligent Traffic Signal Operations Committee is to provide timely recommendations, advice, tips, guidelines and best practices directly to transportation professionals and practitioners through an on-line system. The committee is comprised of experts on different aspects of traffic signal operation. There are six subcommittees providing advice on questions received relating to the corresponding subject areas:

1. Traffic Signal Timing Subcommittee
2. Traffic Simulation Subcommittee
3. Transportation Software Subcommittee
4. Hardware/Firmware and Telecommunication Subcommittee
5. Knowledge Database Subcommittee
6. Outreach Subcommittee

For example, a subcommittee may suggest where practitioners may be able to find appropriate resources or information to help them with a particular problem.

## **Signal Timing Subcommittee**

Signal retiming is one of the most cost-effective methods to quickly alleviate traffic congestion and improve traffic safety. However, according to the National Traffic Signal Report Card, agencies are unable to regularly retime the signals, adjust signal timing plans and maintain signal timing inventory due to limited resources. The subcommittee experts can reduce some of the burden by pointing to information that is available in this area. The subcommittee can also suggest effective practices for signal retiming or for contracting for such services.

## **Traffic Simulation Subcommittee**

Traffic simulation is used by practitioners to evaluate the benefits of several available options for improvement. Traffic simulation poses the challenge of simulating real world conditions in the field, which requires accurate data collection and calibration. Further, different types of simulation models (macroscopic, microscopic, or mesoscopic) can be considered based on availability of resources, the amount of detail required in the output, and simulation tools available in the market. The panel of

experts on this subcommittee can assist the practitioners with issues related to traffic simulation, such as selection of the appropriate model or type of model or calibration methods.

## **Transportation Software Subcommittee**

Public agencies use transportation software to manage and evaluate the efficiency of the transportation system. Practitioners need to understand the capabilities and limitations of available software packages in order to use them for design, management and evaluation. The panel of experts on this subcommittee can help the practitioners in selecting the transportation software which best meets their requirements.

## **Hardware/Firmware and Telecommunication Subcommittee**

Robust signal control hardware/firmware, telecommunication equipment and vehicle detection devices are becoming vital for efficient traffic signal operations. Signal controllers, Traffic Management Center (TMC) equipment, communication network, CCTV cameras and vehicle detection devices should be regularly inspected for malfunction and properly upgraded to meet the changes in operational requirements. The experts in this subcommittee can assist the practitioners with suggested effective practice related to hardware/firmware, signal control devices, telecommunications and standards compliance.

## **Knowledge Database Subcommittee**

The Knowledge Database Subcommittee focuses on collecting and developing an intensive up-to-date knowledge resource on traffic signal operations. The practitioners and agencies will be able to access the database through our future Web site. A robust search engine will be developed for searching documents related to a specific area in the field of traffic signal operations. This subcommittee works closely with the other subcommittees to develop the database and update the "frequently asked questions" section of the Web site.

## **Outreach Subcommittee**

The Outreach Subcommittee promotes the services and functions of the Intelligent Traffic Signal Operations Committee to local transportation agencies. It coordinates and works closely with the ITE Public Agency Council, Traffic Engineering Council and Transportation Consultants Council on promoting awareness of the committee's offerings to the traffic engineering staff of public agencies. The subcommittee also collects benefit/cost information on signal operations improvements to assist local agencies in educating elected officials of the benefits of efficient

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traffic signal operations. This education effort is intended to assist agencies in securing funding for making improvement to the transportation system.

### Experts Participating in the ITSO Committee

More than 60 experts have committed their time and expertise to provide online services to local transportation agencies to improve their traffic signal operations. The committee consists of experts from FHWA, state DOTs, local transportation agencies, leading consulting companies, leading transportation equipment manufacturers and vendors, academic researchers and university professors. In addition to the experts in the United States, several experts from Australia, New Zealand, Singapore, China, Taiwan, South Korea, Qatar and Canada will also actively participate in the committee activities.

### Current Status

The ITSO Committee is planning to meet during the ITE 2006 Annual Meeting and Exhibit. The meeting is open to anyone interested in becoming a committee member or finding out more about the committee and how to utilize this valuable service.

The ITSO Web pages are under construction and will be available through ITE's Web site. These pages are in their final stage of completion. The Web pages and ITSO Committee are expected to be launched soon after the ITE 2006 Annual Meeting and Exhibit.

### ITE WEB SEMINAR FOR M&O/ITS COUNCIL MEMBERS

Mark your calendars to participate in an upcoming ITE Web seminar:

**Course:** Guidelines for Effective Technology Procurement

**Date:** Thursday, July 13, 2006

**Time:** 2:00 p.m.-3:30 p.m. EST

**Site Registration Fee:** \$250 ITE members/\$275 non-ITE members per site

**Credit:** 1.5 PDH/.15 IACET CEU

**Background:** The procurement process determines the success or failure of technology-based projects including signal systems, new IT systems for the office, or major traffic management projects. Unfortunately in too many cases, the wrong process is used. An inappropriate procurement method may result in project cost overruns, systems that do not satisfy functional requirements and long-term maintenance failures. An appropriate method of procuring ITS must be flexible enough to accommodate the uncertainties of complex system acquisitions, while at the same time rigid enough to ensure that the responsibilities of the participants are fully defined and their interests protected. This Web seminar will describe a process that will help you answer these questions in a way that best meets the needs of your project and your agency's capabilities. It is based on a recently completed National Cooperative Highway Research Program project that developed a set of user-friendly, innovative procedures intended to help agencies make good procurement decisions.

### TAKE ADVANTAGE OF THE FREE "TALKING OPERATIONS" WEB CASTS

The National Transportation Operations Coalition (NTOC) sponsors FREE OF CHARGE monthly Web casts on a variety of interesting topics, all related to transportation system management and operations (TSM&O). Upcoming Web casts include:

July 27, 2006—*Integrated Corridor Management*

August 9, 2006—*Adaptive Control Software Lite (ACS-Lite)*

Each Web cast is like a "super conference session." Audience members listen in via telephone (on a toll-free connection) while watching each speaker's slide presentation on the Internet. Audience questions are encouraged at any time, and are addressed in an extended (at least 30 minute long) question-and-answer segment following the final speaker's presentation. We encourage you to register early for Web casts as audience slots are limited. For more information about the Web cast and registration, go to [www.ntoctalks.com/web\\_casts.php](http://www.ntoctalks.com/web_casts.php).



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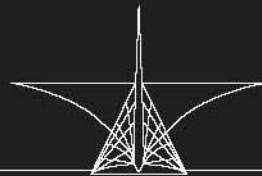
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# Sign Up Now!

2006 ITE Annual Meeting and Exhibit  
August 6-9  
Milwaukee, WI, USA

The ITE 2006 Annual Meeting and Exhibit is expected to attract nearly 2,000 transportation professionals! The technical program is designed to enhance attendees' knowledge base by providing leading-edge technical information, superior professional development opportunities and a responsive worldwide network of professional transportation colleagues. The meeting's 55 technical sessions are divided into the following five tracks: planning; engineering and design; safety; mobility and operations; and implementing transportation solutions/professional development.

Please visit the ITE Web site at [www.ite.org/AnnualMeeting](http://www.ite.org/AnnualMeeting) for more information.



## MILWAUKEE

ITE 2006 Annual Meeting and Exhibit  
August 6-9



Institute of Transportation Engineers  
1099 14th Street, NW, Suite 300 West  
Washington, DC 20005-3438 USA



## A NOTE FROM ITE HEADQUARTERS

Welcome All New and Returning Members of the M&O/ITS Council!

Your membership in the M&O/ITS Council will enable you to stay in synch with the latest advancements and evolving issues of concern to your area of expertise. Equally important, your membership also enables you to play a leadership role in the types of advancements made, and the identification and resolution of ITE issues of concern at both the local and national levels. The geographical diversity among ITE members provides a unique forum for the exchange of individual peer experiences and the evaluation of best practices.

As a member of the M&O/ITS Council, in addition to receiving the newsletter addressing current technical and non-technical issues, you are able to stay up-to-date by proactively participating in:

- Internet discussion groups, where matters of mutual concern are addressed (Contact Zachary Pleasant (zpleasant@ite.org) to join the council list serv)
- Working committees that focus on council related topics (See the listing of council projects at [www.ite.org/councils/projects/default.asp](http://www.ite.org/councils/projects/default.asp);
- Scheduled council meetings at the ITE Annual Meeting and Exhibit, during TRB week, and the ITE Technical Conference and Exhibit; and
- ITE council meetings held at the ITE Annual Meeting and Exhibit—all members are welcome ([www.ite.org/annualmeeting/councilmeetings.asp](http://www.ite.org/annualmeeting/councilmeetings.asp)).

And, as a M&O/ITS Council member, you have access to all other ITE councils' newsletters. They are available on each council's page on ITE Web site at [www.ite.org](http://www.ite.org).

We look forward to your involvement in the M&O/ITS Council.