

# Traffic Signal Systems Committee

## TRB Annual Meeting – Washington, DC

### Monday, January 14, 2008, Marriott Washington B1

Annual Meeting Minutes  
www.trbsignalsystems.org  
(ID=member; password=valid)

#### 1. Welcome and Call to Order

- Larry Head called the meeting to order at 1:34 pm.
- Attendants introduced themselves, 21 Committee attendees, 90 total in attendance

#### 2. Approval of Minutes

- Tom Urbanik moved, Paul Olson seconded, the minutes from July 2007 (**Attached**) were unanimously approved
- Password and Member Name were/will be eliminated

#### 3. TRB Report (Dan Turner)

- The Walmart effect on freight
- 11 out of 1,000 Chinese have cars – rate is likely to be as high as US next year and thus the price of fossil fuels is bound to increase
- TRB is trying to be more nimble
- TRB Financially healthy, even with flat funding, exhibitors are here to stay.
- Triennial Strategic Evaluation is due and Asked to look at Globalization, Future
- Research Problem Statements online will be tracked, currently there are 700 from 135 Committees, in 31 subject areas

#### 4. FHWA and other Related Reports

- Raj Ghaman, Research
- ICM program selected pioneer cities.
  - Oakland test site. 2 to 3 sites to demonstrate ICM – selection in 2009-2010
  - TMC Pooled Fund Study – concentrated on management of these facilities
  - ACS Lite Phase 2 RFP closed – decision made shortly
- Dave Gibson - SBIR
  - SBIR funding - Implementation of NCHRP 3-66, Phase 1 complete, Phase 2 under negotiation. Linux in LADOT
  - 2 new SBIRs – motorcycle detection, safety and operations in ACS.
  - Traffic Detector Handbook is complete
- Eddie Curtis, Arterial Management Update - **Presentation Attached**
  - Traffic Signal Timing Manual – early summer release
  - NTOC Signal Report Card released October 9, 2007
  - Audit Guide
  - Signal Timing Under Saturated Conditions
  - Regional Traffic Signal Operations – Kittelson & Associates / SAIC
  - Arterial Performance Measures – BAH, Iteris, Sabra Wang
  - Signal Management and Operations and Resource – SAIC / Dunn / Kittelson
  - 2008 efforts – Comprehensive Traffic Signal Management Program Guide – building on the Report Card
  - Collaborate with Office of Safety

## 5. TRB Staff Report (Rich Cunard)

- TRB Annual Meeting will be week before Martin Luther King Jr. Holiday – January 11-15, 2009
- TRB Hotels are changing, redevelopment of the Marriott is going to start after our meeting.
- TRB's Annual Meeting in 2008 is estimating near 10,500 attendees.
- Poster sessions are half of the sessions, 147 this year.
- Paper submittals topped 2,800.- publication was approximately 25%
- Poster sessions and podium presentations were 50/50.
- TRB Housing Bureau will likely occur September 1<sup>st</sup>.
- DVD provides excess capacity, 1,750 papers
- Revisiting Transportation Research Record opportunities with web of science. TRR will continue to be a journal.
- TRB has given four webinars on sessions or report. Trying to do two per month. E-Newsletter is primary information source. Submit those to Rich Cunard via email (rcunard@nas.edu). Started in March-April timeframe. Are workshops capable of becoming webinars. 2-3 speakers, 90 minutes roughly in Powerpoint.

## 6. Subcommittee Reports

### A. Paper Review (Larry Head)

- 63 Papers submitted, 31 for presentation and poster (1 shared presentation session), 5 reviews for each paper. Approximately 25% publication, Decision of publication is January 25<sup>th</sup>, 1-month deadline for resubmittal.

### B. Best Paper Award (Paul Olson)

- 4 excellent papers to choose from, but the winner was entitled "**Evaluation of Variable Maximum Green Time to Improve Rural Traffic Signal Operations**" Steven Click, Tennessee Tech University
- Past winners are on the website.
- Volunteers can request to participate by emailing Paul Olson.

### C. Committee Website (Monty Abbas)

- Monty would like to update links on the website, send an email to Monty.
- Website has documentation of presentations from 1997.

### D. Signal Timing (Peter Koonce) - **Presentation attached**

### E. Simulation (Brian Park) - **Presentation attached**

### F. January Workshop (Brian Park) - **Presentations will be posted**

### G. Triennial Strategic Plan (Urbanik)

- TRB Triennial Plan will be completed by April 2008
- Susan Langdon, Mark Dunzo, Paul Olson, Eddie Curtis, Peter Koonce
- International Aspects of (Kevin Balke, Monty Abbas, Paul Olson, Eddie Curtis, Frank Liu, Peter Koonce)
- The Interaction of Geometric Design, Safety, and Traffic Signal Control for Improved Performance of the Transportation System - **Workshop in 2009?**

### H. Controller Architecture (Larry Head) - **minutes attached**

- Behavior of traffic signal control logic through use of UML and other languages
  - I. *Problem Statements (Jim Powell)* - **minutes attached**
- *Statements due every September – Voting in March 2009*
- *NCHRP 3-66, 3-79, 3-90*
  
- Pending RFP – Operation of Traffic Signal Systems in Oversaturated Conditions
  
- Submitted – Pedestrians Accomodation in Traffic Signal Systems (joint with pedestrians) & Update to the Traffic Signal Timing Manual Statements that weren't selected for funding are on the TRB web site.
- Future Problem Statements – See minutes attached (Alex Ste, Peter Furth, Steve Shelby)
- NCHRP Synthesis Program – submit by February 8<sup>th</sup>.
- IDEA Program – March 1<sup>st</sup> deadline – Highway, Transit - [www.idea.org](http://www.idea.org)
  
- 7. NCHRP Report (Ray Derr)**
  - Two projects currently ongoing NCHRP 3-66 and 3-79 see TRB website. NCHRP 3-90 has been awarded and will be underway shortly. Additional funds have been requested by each project.
  
- 8. USDOT VII/CICAS Update, (Gene McHale) - Presentation attached**
  
- 9. NCHRP 3-79 Project Update (Jim Bonneson) - Presentation attached**
  - Continuation of project is occurring with Darcy Bullock of Purdue identifying delay measurement and platoon modeling and finally implementation
  
- 10. 2008 Summer Meeting (Gary Piotrowicz)**
  - VII Field Operation Testing (FOT) Location – Detroit, MI
  - Date – LAST WEEK IN July 27-29 – Subcommittee meetings on Sunday afternoon, Monday Workshop, Tuesday Joint, Business Meeting
  - Vehicle Infrastructure Integration (Joint with ITS Committee)
  - Educational Needs for the Practitioner – 2010 Agenda
  - Goal of the meeting: outreach to provide signal operators' perspective
    - What can we get from them (data for signal systems)?
    - Presentation of Day One Operations of Signals
    - SAE DSRC, VII, Auto manufacturers, 3-66
    - Back and forth between the Vehicle
    - Research/data needs should be summarized by the Committee prior to the meeting.
  
- 11. New Topics – Do we need two topics - No**
  - a. Pedestrians – (13 votes) – **January 2009 TRB!**
  - b. Coordination and Applications of 3-66 Controller Logic – (27) – **Summer 2008**
  - c. Education (no vote, postponed) – **2010 Workshop**
  - d. Joint with Geometric Design in **Summer 2009** – Susan Langdon

**Coordination (Urbanik Lead, Larry Head, Eddie Curtis, Henry Liu, Jim Peters, Steve Shelby)**

**Peds (Kevin Balke, Zong Tian, Monty Abbas Bruck Zvaniga, Larry Corcoran, Darcy Bullock, Peter Koonce, Mark Dunzo)**

**12. Other Business**  
**Globalization**  
**Role of FHWA in Signal Systems**  
**Triennial Strategic Plan**

The meeting was adjourned at 5:18 PM.