1. **Welcome and Call to Order**
   - Larry Head called the meeting to order at 1:32 pm.
   - Attendees introduced themselves, 21 Committee attendees, over 90 total in attendance.
   - Larry showed a slide for the website and instructed attendees to google TRB Signal Systems and add their contact information to the site.
   - Signal Systems Committee was #2 for papers this year with 99 to review.

2. **Approval of Minutes**
   - Paul Olson moved, Susan Langdon seconded, the minutes from July 2010 (Attached) were unanimously approved.

3. **FHWA and other Related Reports**
   - Initial Report by Eddie Curtis, FHWA
     - Every Day Counts (Innovation, Ingenuity, Imagination, Invention)
       1. Goal is for 40 deployments of adaptive signal control (any adaptive system, not only ACS Lite) by 2011
       2. Systems Engineering documents for adaptive control
          1. ACS Lite Evaluations (4 sites) – did it do better? What did it do? Beyond stops & delay
          2. Systems Engineering Model Documents
   - National Traffic Signal Report Card 2012
     1. Self assessment in September
     2. Added Technical Advisory Committee to make it relevant
     3. Web Based Training
        1. Program Management for Traffic Signal System Managers
        2. Organizational Management (and three others)
   - INDOT Pooled Fund Study
     1. Objective
        1. Develop consensus on operational standards of performance
        2. Central management model
        3. Using a central systems to manage resources and investments
     2. Traffic Signal Systems Operations & Management #1296 – draft scope of work
        1. Contact Jay Wasson, [jwasson@indot.in.gov](mailto:jwasson@indot.in.gov)
   - Additional Information by Dave Gibson specifically related to the SBIR program
..1. Bluetooth study is in Phase 2 – VDOT and MDOT is working with Traffax and Purdue + U Maryland
..2. IntelliDrive applications developed – tool that researcher can use to develop J2735 – Open Source Code for IntelliDrive (Harmonius Systems in Blacksburg in Virginia Tech)
..3. Dynamic Mobility for Applications
..4. Enhancement of ACS Lite System to consider Safety (Bared) in signal timing – awarded in November 2010 (Gettman and Sabra).

4. NCHRP Staff Report (Ray Derr)

- Underestimated how much money was going to come in during continuation of existing Highway Bill.
- Research Problem Statements in March – taking a look at life cycle costs of intersection alternatives (roundabouts).
- IntelliDrive Research for Proposals – panel took public agency perspective – why should agency invest?

5. TRB Staff Report (Rich Cunard)

- TRB Annual Meeting will be week before Martin Luther King Jr. Holiday – January 22-26, 2012; 2013 will be back before MLK holiday.
- TRB’s Annual Meeting in 2011 is pre-registered at 11,000 attendees (highest ever) – may only have 10,500 (2006 was highest).
- TRB is cohosting ITS conference in Orlando. Populate the world congress. By February 10th, write up on a session and submit for ITSA.
- TRB booth at World Congress of ITSA.
- TRR Citation factor has gone up to 0.298 in 2009, 0.259 at 2010.
- Las Vegas meeting will be within per diem.
- No DVD, online compendium this year (green the meeting). 2,300 papers and powerpoint and video sessions will be available.
- Free access for a year.

6. Working Group Reports

A. Paper Review (Larry Head)
   - 99 Papers submitted, 25% accepted. Decision of publication is February 1st.
   - Request for data sets with the paper review.

B. Best Paper Award (Paul Olson)
   - 4 excellent papers to choose from and the winner was entitled “Visual Education Tools to Illustrate Coordinated System Operation” Tom Brennan, Chris Day, Jim Sturdevant, and Darcy Bullock
   - Past winners are on the website.

C. Committee Website/Communications Coordinator (Monty Abbas)
   - Monty would like to update links on the website with presentations from 2009 and 2010
   - Website has documentation of presentations from 1997.

D. January Workshop (Mike Kyte)
• Workshop ranged from 35 to 40 in the meeting.

E. Triennial Strategic Plan (Urbanik?) - Due August 1
   Discuss in July
   • Who we are, what we do
   • 2,500 Word limit
   • Research topics for summer meeting and soliciting papers for business meeting
   • Role of STM document is important for this.
   • 2012 TRB Annual Meeting Theme: Transportation – putting innovation and people to work.

7. 2011 Summer Meeting – July 18-21 (Doug Gettman)
   1. Regional Traffic Management (joint meeting w/ RTSMO, Freeway Ops, ITS, Active Traffic Management) – location: Las Vegas, NV – Monday through Thursday
   2. Vision was described and Why Clark County, NV – FAST is MPO that does DOT and local Agency functions. A tentative schedule was presented
   3. NTOC will meet during this time.
   4. NCHRP 3-103 will be active and the Peer Review.

8. Subcommittee Reports
   A. Simulation (Brian Park)
      • Presentation regarding Caliper's use of TransModeler software
      • IntelliDrive applications in signal timing by Brian Park
   B. Architecture (Larry Head)
      • Gary Duncan provided some summary of DC cabinet concept.
      • IntelliDrive meeting in Tempe discussed traffic signal applications and transition from current operations as market penetration grows
   C. Research (Jim Powell)
      • NCHRP 3-66 is complete, but they have $100k additional funding
      • NCHRP 3-79 Arterial Performance Measures – Bullock -
      • NCHRP 3-90 Oversaturated Conditions research is nearly complete with the next three months nearing completion.
      • New topics are inclusive of the following
        ◦ Pedestrian detection
        ◦ Retiming strategies/maintenance
        ◦ Volunteers are needed and will be due in September
      • NCHRP Synthesis topics are due Feb 18.
   D. Timing (Koonce)
      • NCHRP 3-103 contractor was selected
      • Committee/Subcommittee role in review of document needs to consider AASHTO influence.
      • During meeting, we solicited thoughts on the following:
        ◦ Underutilized features of the controller
        ◦ Misused functions of the controller
   E. News Ideas (Koonce) – Is there any interest in forming a new Subcommittee with the intent to share information via the listserv? Contact Peter with interest.
      • International perspectives – what is the TRB equivalent?
      • Pooled Fund Study
      • Joint Subcommittee meetings?
      • New Member summary
9. Research Updates

- IntelliDrive Traffic Signal Control Algorithms
  - Noah Goodall, UVA Presentation [attached]
    - intelliDrive can address oversaturated conditions, collection of performance measures and predictive microsimulation (identifying future delay).
  - Alexander Skabardonis, CA PATH - UC Berkeley
    - Use intellidrive data to change traffic control - presentation [attached]
- Joint Subcommittee on Emergency Evaluation (Elise Miller-Hooks, UMD)

10. 2012 Summer Meeting (Susan Langdon, Rick Denney)

- Geometric Design and Traffic Signals?? - 2013 & Kay Fitzpatrick
  - Intersection width and crossing requirements. Meeting in London?
- Adaptive Control because FHWA EVERYDAY COUNTS.
  - Woods Hole, MA or Assylamar, CA

11. Other Business

- ITS World Congress
- Triennial Strategic Plan
- Adaptive Control Systems as Mapped by Federal Highway Administration