



## TRB Executive Committee Meeting

### -Notes & Action Items-

Wednesday, January 14, 2015, 8:30 am – Noon; 2:30 pm-5:30 pm

Thursday, January 15, 2015, 8:30 am – 11:30 am

Liberty Room L-M, Marriott Marquis, Washington, DC

#### I. Welcome, Introduction, and Overview of Agenda (Stuedle) (pp. 3 of Electronic Agenda)

A. [Meeting attendee list](#) is attached to the document on pp. 13-14

#### II. Approval of June 26 & 27, 2014 Minutes (pp. 4-25 of Electronic Agenda)

➤ APPROVED

#### III. TRB Executive Director's Report (Skinner) (pp. 26-57)

A. Skinner provided an overview of a number of TRB business items, including the outlook for federal transportation funding, the closeout of the SHRP 2 program, TRB policy studies, TRID, TRB software upgrades, the Minority Student Fellows Program, the new TRB Strategic Plan, the TRB Executive Director transition, and National Academies news.

1. The move to the D.C. Convention Center and Marriott Marquis seems to be working out well overall.
2. The Secretary Anthony Foxx session was well received.
3. Transportation research funding did not fare well in the Senate Environmental and Public Works Committee bill last year.

B. APTA and AASHTO update:

1. APTA, Michael Melaniphy
  - Discussions with Congress about raising the gas tax and tax reform in other areas to fund transportation activities continue.
  - Philip Washington stated that APTA is having media events in at least 20 cities on April 9, 2015.
2. AASHTO, Bud Wright
  - 2015 may be a difficult year for transportation.
  - Aviation, passenger rail, and surface transportation reauthorization are all being discussed.
  - There is talk of pairing additional transportation revenues with other legislation, such as tax reform.
  - Passing a stand-alone, long-term reauthorization of surface transportation will be difficult.
  - AASHTO working with APTA and other partners to identify the consequences of the short-term funding extensions in previous past years.

#### **IV. Executive Director Search (Steudle) (pp. 58-59)**

Kirk Steudle summarized the search process for the next TRB Executive Director. Neil Pedersen was selected by the search committee, and will begin his role as TRB Executive Director on February 1, 2015.

#### **V. Subcommittee for NRC Oversight (Schwartz) (pp. 60-82)**

*The purpose of this subcommittee is to ensure that TRB meets the National Research Council's standards for objectivity. One of its primary areas of interest is promoting the advancement of women and minority participation on TRB's various volunteer activities. The report included the following statistics:*

- A. Women and minority participation on TRB committees:
  - 1. 22% of NRC committees and 25% of non-NRC committee members are women.
  - 2. 14% of NRC committees and 17% of non-NRC committee members are minorities.
- B. Women and minority participation as TRB committee chairs:
  - 1. 25% of NRC committees and 27% of non-NRC committee members are women.
  - 2. 10% of NRC committees and 13% of non-NRC committee members are minorities.

#### **VI. Subcommittee on Planning and Policy Review (Rosenbloom) (pp. 84-89)**

*The purpose of this subcommittee is to act in place of the Executive Committee between regularly scheduled meetings.*

- A. The SPPR developed the goals and objectives that are included in TRB's new strategic plan with the understanding that an implementation plan will be developed with the incoming TRB Executive Director.
- B. The SPPR will provide input on developing a TRB communications strategy and ways to generate success stories about TRB research products.
- C. The SPPR approved future studies on guardrails, transportation of domestic crude oil and natural gas, and institutional reform on air traffic control.

#### **VII. Strategic Plans Update (Norman, Pedersen) (pp.90-102)**

- A. Actions taken for each of the strategies contained in the TRB Strategic Plan were listed in pp. 96-102. TRB is addressing critical and emerging issues in a more strategic and proactive action. The topical focus this first year is on Connected and Automated Vehicles.

1. TRB standing committees have a specific interest in connected and automated vehicles.
  2. TRB conducted a webinar for approximately 60 of its standing committee chairs.
  3. TRB conducted 20-25 briefings to its standing committees at this annual meeting on connected and automated vehicles.
  4. TRB is conducting meetings and entering partnerships with other organizations, including:
    - European Union (EU) / U.S. Symposium (April 2015)
    - University of Michigan Transportation Research Institute (UMTRI) in Ann Arbor (July 2015)
    - University Transportation Centers (November 2015)
  5. TRB's National Cooperative Highway Research Program (NCHRP) created a roadmap outlining automated vehicle research, and this will be used to guide a major new series of NCHRP studies on challenges and opportunities for state and local transportation agencies.
- B. Pedersen listed his emphasis areas, which included:
1. The TRB Strategic Plan needs to be a guiding document for staff and volunteers.
    - Schedules will be dependent on priorities.
  2. He will be reaching out to Executive Committee members to solicit their views.
  3. Pedersen will continue to increase the value that sponsors, participants, and customers derive from TRB through the following:
    - Find ways that we can better serve the entire staff of sponsoring agencies
    - Continue to take advantage of technology
    - Focus on the products that are used and needed
    - Leverage TRB's connection to the National Academies
  4. Increase the focus given to strategic, emerging and long term issues.
  5. Work to ensure stable, long term revenue streams for TRB.
    - We cannot rely on continued increases in revenue from our traditional sources.
  6. Develop and implement a strategic marketing and communications plan.
    - Make sure people in all levels of organizations are able to use TRB products and services.
    - Adapt to millennials' methods for receiving material. Listen and receive feedback from these and other groups.
    - Continue to focus on underrepresented groups.
  7. Develop a diverse set of future leaders of TRB, both among volunteers and staff.
    - Provide development opportunities for people stepping in leadership opportunities in 5, 10, 15, and 25 years from now.
- C. Pedersen's [complete list](#) is attached immediately following these notes/action items.

1. Sperling suggested that, to help implement the strategic plan and Pedersen's vision, Executive Committee members participate as members of a "subcommittee" or small group focusing on a particular topic.
2. Pedersen suggested that the proposal be discussed by the SPPR.

➤ **ACTION: Pedersen and the SPPR will develop an implementation plan for the TRB Strategic Plan, and will report on this at the June TRB Executive Committee**

#### **VIII. Finance Committee (Stuedle)**

- A. The function of this committee is to consider the levels of contributions from the state DOTs and FHWA to the TRB core program.
- B. The TRB Executive Committee endorsed TRB Finance Committee recommendations:
  1. Keeping overall state DOT core dues level for FY 2016
  2. Basing each states' dues on annually updated SP&R factors that go into the formula, and recalculate each state's contribution based on latest readjusted factors for each future year as well

#### **IX. Finance Report (Walker) (pp. 103-106)**

- A. The TRB core program is currently operating on a deficit budget in order to gradually reduce the level of reserves.
- B. The figures for FY 2015 will be updated to reflect the financial impacts of this 2015 TRB Annual Meeting.

#### **X. Briefing by National Academies Director of Congressional and Government Affairs (Jensen)**

*Jim Jensen, National Academies Director of Congressional and Government Affairs, briefed the committee on the state of transportation funding given the recent turnover of congressional representatives in the U.S. Senate and U.S. House of Representatives.*

- A. There has been considerable turnover in leadership as a result of the Senate now having a Republican majority, retirements of key leaders, and the defeat of others.
- B. There are a lot of new Congressional members with relatively little federal legislative experience. Educating these members about the value of research and the federal role in research will be a challenge.

#### **XI. Policy Studies (Godwin) (pp. 107-128)**

Status of current studies:

- A. Funding and Managing the Inland Waterways System (in review)
- B. Freight Rail Transportation and Regulation (March 2014)
- C. Essential Role of FHWA in Highway Research (April 2014)
- D. Peer Review of USDOT Report to Congress on DSRC (March 2014)
- E. Evaluation of FRA R&D Program (nearing review)
- F. Action items for Marine Board Initiatives

1. Peer review of two reports that assess impediments to U.S. Flag Vessels (pp. 117-120)
  - U.S. Coast Guard and Merchant Marine (\$92,000 and estimated 6 months in length)
2. Expert Meeting on Coastal Resiliency Metrics (Agenda add-on item)
  - U.S. Army Corps of Engineers (\$75,000) and National Oceanic and Atmospheric Administration (non-funding sponsor)

➤ **ACTION: Both approved**

G. Action items for self-initiated studies

1. Domestic Transportation of Petroleum and Natural Gas (pp. 109-111)
  - TRB and the Board on Energy and Environmental Systems
  - 18 months, \$800,000
2. Air Traffic Control Service: Symposium on Reform Options (pp. 112-114)
  - 8 months, \$200,000

➤ **ACTION: Both approved**

➤ NOTE: Godwin will share information about self-initiated studies with other possible sponsors, and may come back to the Executive Committee if they suggest additional changes.

H. Discussion only: Marine Board Initiative (pp. 115)

1. **Framework on Maritime Risk Assessments:**  
TRB was asked to convene an expert peer review at a low cost. It is necessary to identify people to serve as an expert peer reviewer of the risk assessments and for the Marine Board to produce a framework to assess activities or convene a peer review.

I. Completed Reports for 2014:

- [The Federal Aviation Administration's Approach for Determining Future Air Traffic Controller Staffing Needs](#)
- [Long-Term Pavement Performance Committee Letter Report: January 2, 2014](#)
- [Long-Term Pavement Performance Committee Letter Report: August 13, 2014](#)
- [Long-Term Pavement Performance Committee Letter Report: December 15, 2014](#)
- [Long-Term Bridge Performance Committee Letter Report: January 27, 2014](#)
- [Review of U.S. Department of Transportation Truck Size and Weight Study: First Report: Review of Desk Scans](#)

**XII. Minority Student Fellows Program (Febey)**

- A. Program is six years old.
- B. Fourteen academic institutions are participating in the program: The scholarship pays for both the student and a faculty mentor.
- C. The program cost \$50,000 overall this year. TRB financed \$31,000 this year and organizational and individual support has generated \$19,000 of support.

1. The U.S. Federal Highway Administration; North Central Texas Council of Governments; the South Coast Air Quality Management District, California; and Stantec, Inc. provide financial sponsorship to the program.
2. There were also numerous individual sponsors who donated through the checkbox option on the Annual Meeting registration. Other ways to donate are through writing checks payable to TRB and giving them to Karen Febey, and donating online through the NAS website.

### **XIII. Policy Session: Sources, Uses, and Big Data**

This session explored the sources and uses of big data; applications of emerging data and analysis capabilities; and big data visualization. Presentations were made by:

- A. Carson Farmer, Associate Director of the Center for Advanced Research of Spatial Information; Assistant Professor, Department of Geography, Hunter College, City University of New York (CUNY); and Assistant Professor, Earth and Environmental Sciences, The Graduate Center, CUNY
- B. Irving Wladawsky-Berger, Visiting Lecturer, Massachusetts Institute of Technology, Sloan School of Management; Adjunct Professor, Imperial College Business School, London; and Executive-in-Residence, New York University, Center for Urban Science and Progress
- C. Jack Dangermond, Founder and President, ESRI

### **XIV. Big Data in Transportation Policy Session: Rapporteur Summary (Fotheringham)**

*Summary observations were drawn by Dr. A. Stewart Fotheringham from the previous day's presentations. Dr. Fotheringham is currently Director of the Centre for GeoInformatics at the University of St Andrews in Scotland. In August he will be joining the GEODA Centre in the School of Geographical Sciences and Urban Planning at Arizona State University. Please refer to the rapporteur's PowerPoint slides for additional details.*

- A. Facts
  1. The big data era is here, and we are at the beginning of it.
  2. Everything is becoming 'smart.' Smart implies both monitoring and connectivity.
  3. With an era of big data, we have the capability to monitor systems in real time.
- B. Issues
  1. Privacy: With the ability to track people, agencies and organizations need to consider how much surveillance people are willing to have.
  2. Representativeness: Social media data and cell phone data are not demographically or geographically representative.
  3. Insight vs data volume: Sometimes there is too much noise in the data, and we can potentially collect too much. It's not about collecting data, but rather about being able to analyze the data collected.

4. Data quality: How do we ensure we get good quality data from unregulated sensors?
5. Moving from deductive reasoning to inductive reasoning.
6. Just because you identify a problem doesn't mean you've solved it.
7. There will be winners and losers in big data. The winners take advantage of the new technology. Losers may be the gatekeepers to data, information, and knowledge.
8. Big data is all about the democratization of data, taking data out of the hands of a few and providing it to the masses. However, if the data that come out is not "good" – you're going to have problems with your findings. It's important to have good gatekeepers of data to ensure that the quality is good.

**XV. Future Policy Sessions (Houston) (pp. 132-136)**

The following ideas were generated by the SPPR as potential topics to feature in a future policy session that will take place at the TRB Executive Committee Meeting in June 2015 in Washington, D.C.

- A. Transportation's Role in Communicable Diseases
- B. Demographic Trends and Their Impact on Transportation
- C. The Slow Pace of Regulatory Process Compared to Technological Change
- D. New Visions of Regional Planning in a Dynamically Changing Landscape
- E. Cleaner Urban Freight Transportation

➤ **ACTION: Urban Freight Transportation was selected as the topic for the June 2015 policy session.**

**XVI. International Activities (Rosenbloom) (pp. 137)**

TRB continues to see growth in international activities. Since 2004, TRB has nearly doubled its international attendance at the TRB Annual Meeting, from 9.8 percent in 2004 to 17.1 percent in 2014. TRB, along with the U.S. federal government and European Commission, continue to strengthen partnerships through co-sponsorships of meetings and conferences.

**XVII. Marine Board Report (Card)**

*The Marine Board identifies research needs and provides a forum for exchange of information relating to new technologies, laws and regulations, economics, the environment, and other issues affecting the marine transportation system, port operations, coastal engineering, and marine governance.*

- A. Vice Admiral James Card (USCG, Ret.) is now Marine Board Chair. Dr. Mary Brooks, Professor Emerita at Dalhousie University, Halifax, Canada, is Vice Chair.
- B. Focus areas of the marine board include:

1. Maritime cyber security
  2. Port and coastal resilience
  3. The future of navigation
  4. U.S. Coast Guard human capital
- C. The Marine Board is working on strengthening partnerships with the U.S. Navy and the TRB Marine Group.

**XVIII. Technical Activities Report (Turner, Norman, Houston, and Leonardo) (pp. 145-163)**

- A. Incoming TRB Executive Director Neil Pedersen discussed his strategic focus for TRB with the Technical Activities Council (TAC) at their January 11<sup>th</sup> meeting.
- B. The theme for the 2016 TRB 95<sup>th</sup> Annual Meeting is “Research Convergence: Delivering Our Connected Multimodal Future”
- C. The 2015 TRB 94<sup>th</sup> Annual Meeting reached a new attendance record: 12,200
1. More than 1,400 attendees have responded to a feedback survey launched on January 14, 2015. More than 80 percent have reported that their meeting experience was good or excellent. Areas of improvement for next year include increasing food options and providing more places for people to sit.
  2. The 2015 TRB 94<sup>th</sup> Annual Meeting featured more than 300 exhibit booths and 11 percent more exhibitors than meetings held in any previous year.
  3. Exhibit sales for the 2016 meeting started this week, and 124 exhibitors (70 percent of 2015 exhibitors) have purchased a booth for 2016. TRB’s target is to sign 80-85 percent of exhibitors for the following year’s meeting.
  4. The Annual Meeting had 23 patron participants this year. Next year, TRB will provide a tiered patron package to organizations.
  5. Next year, TRB aims to enlist more guides to assist attendees with finding their way around the meeting.
  6. The TRB Executive Committee expressed its appreciation to the TRB meetings staff for a job well done.
- D. Young Members’ Council (YMC) (Conway) (pp. 164-167)
1. Several sessions at this year’s annual meeting were organized by the Young Members Council and its subcommittees.
  2. In addition to TRB sessions and workshops, the YMC partnered with other organizations to cosponsor Transportation Camp, a meeting held one day in advance of the TRB Annual Meeting.
  3. Six YMC subcommittees met during the Annual Meeting.
  4. The YMC selected an award winner for the Outstanding Young Member award.
  5. The YMC and the Young Professionals in Transportation organized a face-to-face and online discussion with the U.S. DOT leadership to provide input on the DOT’s development of its new transportation framework, a document called *Beyond Traffic: U.S. DOT’s 30-Year Framework for the Future*.
  6. YMC has developed an active online community, consisting of 400 members on its website. YMC is planning to take advantage of the new online system, MyTRB, in the future.



7. An appointment to Chair of the Young Members Council has shifted to a two-year term.
- E. Conference Approval: The TRB Executive Committee APPROVED TRB sponsorship and co-sponsorship of the following conferences:
  1. Workshop on Connected Vehicle Dynamic Mobility Applications and Multi Modal Intelligent Traffic Signal Systems
  2. Geotechnical Risk: Assessment and Performance Management
  3. European Transport Conference (cosponsored)
  4. 8th International Conference on Bridge Maintenance, Safety and Management (IABMAS2016) (cosponsored)

➤ **ACTION: The above conferences were approved.**

**XIX. TRB's second Strategic Highway Research Program (Brach) (pp.167-177)**

*Brach provided a program closeout report of the SHRP 2 program, and more detail can be found in the Executive Committee packet. Brach provided a walk-through of the SHRP 2 Insight Website, which houses data from the Naturalistic Driving Study.*

- A. Brach previewed data tables, videos, and information that can be accessed after logging into the site.
- B. The data protects privacy of other drivers and pedestrians.
- C. Features of the website include the number of trips and the number of participants who traversed roadways at the data collection sites, a new overview video on website capability, and a new visual and cognitive tests dataset.
- D. In addition, significant amounts of data were added to the system, for new total of 4.3 million trip summaries, over 3,000 crash/near crash events, and over 15,000 baseline events.
- E. TRB will provide oversight of the database and will work with Virginia Tech, the database host, to ensure consistency and sustainability.

**XX. Cooperative Research Programs (CRP) (Jenks) (pp. 178-231)**

*Jenks provided an overview of six cooperative research programs: the National Cooperative Highway Research Program (NCHRP); the Transit Cooperative Research Program (TCRP); the Airport Cooperative Research Program (ACRP); the National Cooperative Freight Research Program (NCFRP); the Hazardous Materials Cooperative Research Program (HMCRP); and the National Cooperative Rail Research Program (NCRRP). Research is conducted by contractors; the division staff totals 40, and 2014 funding for these programs is approximately \$57 million.*

- A. Jenks highlighted that 138 CRP-related reports were published in 2014.
- B. Funding Status:
  1. NCHRP:
    - Two-thirds of the FY 2015 funding (\$26 of \$39 million) is currently available, subject to authorization by the states.

- AASHTO's Standing Committee on Research (SCOR) and its Research Advisory Committee (RAC) are currently reviewing FY 2016 projects for selection by SCOR in March.
  - Jenks highlighted a major project of NCHRP, which consists of several reports examining strategic issues in transportation. Results have been published in the NCHRP Report 750 series.
2. TCRP: \$6 million has been made available for FY 2015, which consists of a \$3 million contribution from FY 2015 appropriations, and \$3 million from the Federal Transit Administration.
  3. ACRP:
    - Authorized through FY 2015. The appropriation includes the full \$15 million, and work is underway to develop requests for proposals for the FY 2015 projects.
    - During FY 2014, there were 40 publications that were published
  4. NCFRP: Not reauthorized in MAP-21. Seven remaining research projects are expected to be completed in late 2015 and early 2016.
  5. HMCRP: Not reauthorized in MAP-21. One remaining project is to be completed in late 2015.
  6. NCRRP: No new funding has been identified for this program, but projects that have been funded are expected to be completed in 2015.

**XXI. Other Business and Final Announcements**

- A. Next Executive Committee Meeting is June 11-12, 2015:  
*This meeting takes place all day on June 11<sup>th</sup> and the morning of June 12<sup>th</sup> at the National Academy of Sciences Building on Constitution Avenue in Washington, D.C.*
- B. The Executive Committee thanked Bob Skinner for his guidance as TRB Executive Director. Skinner will retire from TRB on January 31, 2015.

**Emphasis Areas for the New TRB Executive Director**  
**by**  
**Neil Pedersen**  
**Incoming TRB Executive Director**

1. Continue to increase the value that sponsors, participants, and customers derive from TRB
  - Identify how TRB's research results and products can get to customers faster
  - Identify how TRB can further take advantage of technology to provide services and reach stakeholders
  - Determine how TRB can fully take advantage of the new venue for its annual meeting
  - Focus on how customers can more easily find information from and about TRB products
  - Focus on how TRB research results can more effectively move to implementation
  - Better evaluate and communicate the benefits derived from the results of TRB research
  - Better leverage TRB being part of the National Academies
  
2. Increase the focus given to strategic, emerging and long term issues.
  - Engage TRB's Executive Committee and other transportation leaders to further identify and define strategic issues that should be addressed by TRB
  - Provide more guidance to technical committees and CRP programs on strategic, emerging, cross cutting, and long term issues to address in TRB conferences, papers, sessions, policy studies, and CRP projects
  - Identify opportunities for joint strategic efforts with other NRC divisions
  
3. Work to ensure stable, long term revenue streams for TRB.
  - Work with key sponsors to ensure continuation of existing funding sources, especially Statewide Planning and Research (SP&R) funds
  - Explore opportunities for new sponsors, including government, non-profit, and private sponsors
  - Investigate alternative pricing plans for TRB products and services
  - Look into more opportunities to raise revenues through advertising
  
4. Develop and implement a strategic marketing and communications plan.
  - Identify who TRB's key stakeholders should be in the future
  - Develop goals for communications and marketing
  - Develop strategies and actions to support these goals
  - Ensure good two-way communications with stakeholders (listening to what their needs are as well as informing them)
  - Penetrate all levels and parts of key constituency organizations, getting customers to understand all TRB products and services
  - Develop different strategies for different constituencies
  - Focus on young stakeholders and underrepresented groups
  - Communicate the value of TRB and research for policy makers
  
5. Develop a diverse set of future leaders of TRB, both among volunteers and staff.
  - Identify and groom multiple potential successors to committee chairs
  - Target opportunities for potential successors to take on responsibility for certain committee leadership activities

- Focus on diversifying the pool of candidates that could potentially take over vacant leadership positions
- Work with NRC to create leadership development programs for potential future TRB staff leaders
- Provide potential future staff leaders with special assignments to develop and demonstrate their leadership skills

## TRB Executive Committee Meeting Attendees

### Executive Committee Members

1. Kirk Steudle (Chair)
2. Dan Sperling (Vice Chair)
3. Vicki Arroyo
4. Scott Bennett
5. James Card (Marine Board)
6. James Crites
7. Malcolm Dougherty
8. A. Stewart Fotheringham
9. John Halikowski
10. Michael Hancock
11. Steve Heminger
12. Chris Hendrickson
13. Jeff Holt
14. Geraldine Knatz
15. Joan McDonald
16. Abbas Mohaddes
17. Donald Osterberg
18. Henry Schwartz
19. Kumares Sinha
20. Gary Thomas
21. Phillip Washington

### TRB Staff

1. Cindy Baker
2. Ann Brach
3. Karen Febey
4. Steve Godwin
5. Russell Houston
6. Chris Jenks
7. Jim Jensen (NAS)
8. Lisa Marflak
9. Mark Norman
10. Neil Pedersen
11. Robert Skinner
12. Gary Walker

### Ex Officio Members

1. Deborah Butler
2. Bill Bronrott (FMCSA)
3. Alison Conway (Young Members)
4. Stacy Cummings (FRA)
5. Debra Elston (FHWA)
6. John Gray (AAR)
7. Pat Hu (RITA)
8. Barbara Ivanov (TAC)
9. Paul Jovanis (TAC)
10. Kevin Knight (USACE)
11. Therese McMillan (FTA)
12. Michael Melaniphy (APTA)
13. Gregory Nadeau (FHWA)
14. Thomas Nelson (FHWA)
15. Jeff Paniati (FHWA)
16. Kelly Regal (FMCSA)
17. Todd Ripley (MARAD)
18. Michael Rodriguez (MARAD)
19. Sandra Rosenbloom
20. Craig Rutland (USAF)
21. Nan Shellabarger (FAA)
22. Joel Szabat (MARAD)
23. Michael Trentacoste (FHWA)
24. Daniel Turner (TAC)
25. Vincent Valdes (FTA)
26. Barry Wallerstein (SCAQMD)
27. David Wilcock (TAC)
28. Gregory Winfree (RITA)
29. Bud Wright (AASHTO)

**Policy Session Attendees:**

Fran Bents (Westat)  
Michael Berg (WI)  
Åsa Bergman (RSG)  
Vince Bernardin (RSG)  
Shailen Bhatt (DE)  
Lillian Borrone  
Matthew Brown (DC)  
Bobbie Browning (GovDelivery)  
Robert Bush  
Ray Chamberlain  
Matthew Click (HNTB)  
Miller Crockart (PTV Group)  
Tom Deen  
Loren Groff  
Phil Hanegraaf (RS&H)  
James (Jim) Hanson (Atkins Global)  
Rami Harb (Atkins Global)  
Rick Huey (Westat)  
Paulo Humanes (PTV Group)  
Laddie Irion (HNTB)  
Sue Kimbrough  
Tom Klin (CH2MHill)  
Susan Martinovich (CH2MHill)  
Jason McGlashane (HDR)  
Michael Meyer  
William Millar  
Bob Murphy (AECOM)  
Wade Newton (Automobile Alliance)  
David Nichols (MA)  
Krishna Patnam (AECOM)  
Lynn Peterson (WA)  
Ananth Prasad (FL)  
Hebert Richardson  
Lisa Robert (RS&H)  
Rick Robyak (Michael Baker International)  
Tim Schmidt (FHWA)  
Jeff Short  
Howard Slavin  
Joseph M. Sussman  
Jim Twomey (Michael Baker International)  
Martin Wachs  
Mike Walton  
Chris Williges (HDR)  
Lamar Woodham (AL)

**Policy Session Panelists:**

- **Carson Farmer**, Associate Director, Center for Advanced Research of Spatial Information; Assistant Professor, Department of Geography, Hunter College, City University of New York (CUNY); and Assistant Professor, Earth and Environmental Sciences, The Graduate Center, CUNY
- **Irving Wladawsky-Berger**, Visiting Lecturer, Massachusetts Institute of Technology, Sloan School of Management; Adjunct Professor, Imperial College Business School, London; and Executive-in-Residence, New York University, Center for Urban Science and Progress
- **Jack Dangermond**, Founder and President, ESRI