TRB 2013 ANNUAL MEETING

January 16, 2013
2:30PM – 6:00PM
Mariott, Washington B1

Attendees:
Members
Patricia Hu, Michael Pack, Frank Broen, Zenobia Fields, Thomas Furlani, Kevin Gilson, Charles Hixon, Rob Hranac, Lance Parve, Carl Springer, Mark Taylor, Jason Williams, Mark Yedlin, Stephanie Camay

Friends
Barbara Ostrom, Maria Chau, Noah Goodall, Nabeel Khwaja, Joe Moyer, Alex Gilman, Jarklio Sireeni, David Gerstle, Heikki Halttula, Wu Yao-Jan, Dongxi Zheng, Barry Wallick, Yelda Turkan, Ben Stabler, Tom Clemens, Jonathan Porter, Mark Sarmiento, Tom Roff, Justin Clarke, Burr Stewart, Paul Minnice, John Handley, Jenny Guarino, Bill Chadwick, Don Chen, Guohui Zhang, David Gerstle, Mike Wallace, Robert Knisely, Eunsu Lee, Ho-Ling Hwang, Daniel Wilson, Francesco Moraes, Sam Tignor, Jeff Shelton, Joni Graves, Michale Kennerly, Charles Jahern, Nimish Dharmadhikari, Jean Doig, Alex Kiheri, Chris Johnson, Kevin Stewart

Agenda item: Minutes

Highlights of meeting:
• Welcome & TRB report
• Potential ABJ95 Work Items
  o Glossary of visualization terms
  o Visualization examples for our website
  o Monthly Webinars
  o List of visualization resources
  o Update 2003 AASHTO Visualization Guide
  o Research Needs/Papers/Synthesis Topics
• 2013 7th International Visualization in Transportation Symposium
  o Beckman Center, Irvine, California on October 23-25, 2013
• Rick Pain suggested ABJ95 consider submitting for blue ribbon committee
  o Bernardo B. Kleiner will replace Rick Pain

Agenda item: Subcommittee Report on Accomplishments, Planned Activities

Symposium - Stewart and Hranac
  o Oct 23-25 Irvine
  o put program together
  o outreach to other groups
  o meeting with other committees
  o exhibitor event

Outreach – Broen and Camay
  o Survey of interest and other committees
    (TRB Visualization in Transportation Member and Friend Survey.xlsx)

Research – Springer
  o Current Research Needs not well vetted
  o State DOTS are interested
  o Submit statements for full NCHRP research
  o Update RNS

Virtual Design & Construction – Hixon and Gibson
  o See attached
  o Identify 4-5 major categories
  o Organize VDC track for Symposium

Subcommittee Reports (see summary)
• FHWA Visualization Working Group efforts
• Must rotate 1/3 of committee in 2013
• 2013 Mid-Year Meeting:
  June 10-12 Joint Mid-Year Meeting for TRB and AASHTO Committees Washington DC
• Research Needs Statements online:
  https://teachamerica-trbvis.pbworks.com/
• Submit draft RNS Statements to Carl Springer by March 15

Attached:
  o Detailed notes included in Mind Map
  o VDC Subcommittee Report
  o Attendees – Survey XLSX
  o Greg Harrington Award
  o FHWA Working Group Briefing
  o Midyear/Symposium announcements

Operations & Preservation – Ostrom
  o Subcommittee in concept

Greg Harrington Award – Furlani
  o 2013 Award – “Treeversity: Interactive Visualizations for comparing hierarchic datasets
  o John Alexis Guerra-Gomez
  o Audra Buck-Coleman
  o Michael L. Pack
  o Catherine Plaisant
  o Ben Shneiderman

Computational Transportation & Society (Joint Subcommittee ABJ20, ABJ60, ABJ95) – Miller
  o Very good workshop on Sunday
  o Mining data
  o Big data
### Agenda item: Collaborations

- **FHWA Working Group**
  - 41 members – 8 attending ABJ95
  - How to be more effective and disseminate info
- **4 projects include:**
  - Strategic opportunities efforts
  - National household travel survey
  - Federal lands
  - Best practices for GIS asset management
- **3 proposed efforts**
  - bring vis into fed highway
  - internal data analytics capability
  - advance use of 3D analytics in design and construction

- **Committee Human Factors**
  - where visualization committee provided research
  - good source of support
  - have research for recommendations
- **Human Factors Guide**
  - HFG out for 6 months
  - being well received
  - identify visualization examples from guideline
- **Journal of Transportation Research Part C**
  - call for papers
  - dedicated journal for Data Vis
  - interactive multimedia platform print & online

### Agenda item: RNS Statements to be developed

#### Data
- **Standards of visualization for performance measures**
  - accidents not standardized
  - required to MUC standards
  - operational databases
  - what’s been effective
  - ROI
  - fund themselves
- **Comprehension of multi variant analysis**
- **Legal**
  - share data
  - share information
  - risk analysis

#### Simulation
- **Visualization framework to facilitate real time traffic management**
  - AASHTO
  - traffic simulation committee
  - HCM
  - replace CH 35
  - FHWA
- **Visualizing potential impacts for evacuation planning**
  - tools
  - how to do that
- **Using simulators for road construction projects**
  - improve design iterively
  - done in Europe
  - US way behind
  - Synthesis topic

#### VDC
- **Quantify ROI for agency implementation of sym processes**
  - well written
  - It can be done - Stanford baseline
  - changes
  - find projects
  - create numbers
  - finding data
  - mega project
  - Lance is working on project
  - what are costs?
  - perceived
  - what are savings?
  - evaluation
  - checked by different process
  - construction industry
  - increased communication
  - more about value
  - cost
  - prototype project
- **Value of visualization tools**
  - usability tools
  - time to make a decision
  - incident management
  - hard to quantify

#### Operations
- **Workzone management**
- **Handle evacuation plans**
- **How to manage merge data when sharing data across sources**
- **How to set up multi screen work environment**
- **Visual analytics for transit**
- **Viz for HPMS**
- **Freight visualization tools**
- **Congestion effects on the environment**
- **Integrating weather data**
- **Options for statewide data programs beyond GIS**
- **Multimodal environment**
- **How to translate 3D - 4D - 2D**
- **Best practices in asset management dashboards**
- **Evaluation of bridge condition and surveys**
- **impact of hazmat incidents**

### Action Items:
- Meeting Adjourned
ABJ95 VDC Subcommittee Meeting

General Notes
27-attendees (5-DOT, 5-consultants, 8-university, 9-vendors)

Interests (in no particular order)
- Survey Technologies (Lidar)
- Construction Administration & Management
- Understand the complete process of VDC-CIM
- Connection between design and construction
- Linking construction to a 4D model
- Design Data
- Modernizing Civil Engineering practices
- Human Factors (Safety)
- Augmented Reality
- Driving Simulators
- Asset Management
- Real-time Environments
- Operations and Management
- Return on Investment
- Lifecycle Benefits
- Model Fidelity Specifications
- Utilities
- Best Practices for VDC-CIM
- Outreach to other committees and organizations (i.e. AASHTO)
- Legal
  - Someone referenced John (Jeffrey) Hannon, CEP, University of Southern Mississippi, john.hannon@usm.edu
- VDC-CIM Deliverables
- Looking for precedent in the use of VDC-CIM at state agencies.

Action Items
- Distill this list into 4 or 5 major categories and divide the group to tackle each of this categories.
  - What are the primary categories? Please provide your thoughts.
  - ABJ95 is participating
  - VDC-CIM sub-committee should participate
  - There will be a mid-year sub-committee meeting
- 7th International Symposium for Visualization in Transportation October 23-25
  - Call for presentations due February 15, 2013 (see attachment)
  - There is a VDC track, we need to organize it
    - Need volunteers to take on this task.
  - Do we want to have a sub-committee meeting during this event?

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<td>Eunsu Lee</td>
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<td>Upper Great Plains Transport</td>
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<td>Ho-Ling Hwang</td>
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<td>Daniel Wilson</td>
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<td>ORNL</td>
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**ABJ95 Members**
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Greg Herrington Award
Excellence in Visualization Applied to Transportation

• An award in memory of Greg Herrington honoring his many contributions toward advancing the application of visualization to problems in transportation.

Setting up a Formal Process

• What is the award for?
  – Best Paper?
  – Best Presentation?
• Proposed Award Categories:
  • Research
  • Demonstration/Implementation
  • Innovative Technology Development
  • Engineering Education
  – Is this too many?
• Do we always make an award in each category?
• How often should the award be given?
  – Yearly at the annual TRB Meeting?
  – Every 2 years at the International Visualization in Transportation Symposium?

Formal Process (cont’d)

• How should the award be given?
  – At the conference luncheon?
  – At the Visualization Committee Meeting?
• How are potential candidates selected?
  – Recommendation of session chairs?
  – Do we solicit applications (papers)?
• How are winners determined?
  – Standing committee?
• Type of Award?
  – Plaque?
  – Certificate?
  – Should definitely be visually appealing.
• Form a committee to oversee all aspects of award
# Federal Highway Administration Visualization Working Group

## Our Objective
Provide leadership and advocate for visualization and innovative data analysis and to promote initiatives to advance the practice and application of these rapidly maturing and powerful tools to accomplish the mission of FHWA.

## Membership
41 members representing numerous offices within FHWA / DOT

Chair: Michael Trentacoste, FHWA / RD&T  
Co-Chair: Jonathan Porter, FHWA / RD&T

## Partner
ABJ95 : Visualization in Transportation Committee

TRB, 7th International Visualization in Transportation Symposium

## Topics of Interest
3D Engineered Models for Construction

3D Modeling in Roadway Safety Audits

Data Visualization in Transportation Operations

Virtual Design and Construction

Lifecycle Project Management

## Completed Efforts
Visualize National Household Travel Survey Data with on-line GIS

Best Practices in GIS-Based Transportation Asset Management

Identify Strategic Opportunities for the use of Innovative Visualization Techniques

Visualize Federal Lands Project Management, Agency Management Systems Data

## Proposed Future Efforts
3-D Digital Engineering Models for Highway Project Delivery

Develop Internal Advanced Data Analysis and Visualization Capability for FHWA

Develop Performance Data Analytic Tools to Support Agency Objectives

## For further Information contact:
**Program Chair**  
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FHWA / EFLHD  
richard.mcdaniel@dot.gov

**Program Chair**  
Joe Moyer  
FHWA / RD&T  
joe.moyer@dot.gov
This unique TRB conference will blend the traditional midyear business meetings of more than a dozen standing committees with a theme dominating decision making in all transportation agencies today—Meeting State and MPO Information Needs in a Constrained Fiscal Environment. Doing more—and better—with less is the transportation challenge for today and tomorrow.

The conference begins with a review of the key sessions and workshops from the 2013 Annual Meeting that identified guideposts for navigating an era of constrained resources, including a review of the state of performance measurement mandates in the Moving Ahead for Progress in the 21st Century Act (MAP-21).

The agenda will alternate between committee meetings and plenary discussions where challenges and ideas will be shared, ending in a town hall session in which participants will focus on action opportunities for TRB committees—and the professional as a whole—for the coming years.

Smaller and more collaborative than the TRB Annual Meeting, this midyear conference will provide opportunities for information exchange and ideation that will help define the agenda for committees and their members in these interesting times.

Not a committee member? You can still join us and find opportunities to contribute to and learn from this gathering. All committee meetings are open. Come to explore sessions and committee meetings for ideas and connections.
Committees Interested Participating

- Special Task Force on Data for Decisions and Performance Measures (A0030T)
- Policy and Organization Group (AB000)
- Management and Leadership Section (ABC00)
- Strategic Management Committee (ABC10)
- Management and Productivity Committee (ABC20)
- Performance Measurement Committee (ABC30)
- Transportation Asset Management Committee (ABC40)
- Data and Information Systems Section (ABJ00)
- National Transportation Data Requirements and Programs Committee (ABJ10)
- Statewide Transportation Data and Information Systems Committee (ABJ20)
- Urban Transportation Data and Information Systems Committee (ABJ30)
- Highway Traffic Monitoring Committee (ABJ35)
- Travel Survey Methods Committee (ABJ40)
- Task Force on Understanding New Directions for the National Household Travel Survey (ABJ45T)
- Information Systems and Technology Committee (ABJ50)
- Geographic Information Science and Applications Committee (ABJ60)
- Visualization in Transportation Committee (ABJ95)
- American Association of State Highway and Transportation Officials (AASHTO) Standing Committee on Planning Subcommittee on Data

Registration Fees

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<tr>
<td>General</td>
<td>$225</td>
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<td>Speaker and TRB Sponsor</td>
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<td>Student</td>
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Hotel Information

Melrose Hotel
2430 Pennsylvania Avenue, NW
Washington, DC 20037

Rate: $224/$249 S/D (prevailing government per diem) plus taxes and fees. Group block expires May 9, 2013. Event Name: State and MPO Information Needs Meeting

Online Reservation


For more information, contact:

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Planning Team

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Kathryn A. Zimmerman, Applied Pavement Technology, Inc.
Visualization for **Big Data**

**Call for Presentations**

7th International Symposium on Visualization in Transportation

**Irvine, California  October 23-25, 2013**

The conference planning committee is seeking input on session and presentation topics from visualization experts, transportation professionals, and researchers in all modes and domains. A wide variety of sessions and speakers will be pursued including moderated sessions, panel discussions, interactive poster sessions, and application/technology demonstrations.

**Submission Process:**

Please submit session abstracts, ideas, and speaker names to [http://www.trb.org/Main/Blurbs/167315.aspx](http://www.trb.org/Main/Blurbs/167315.aspx)

**Submission Deadline:**

**March 15, 2013** (earlier submissions preferred)

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**Potential Visualization Topics:**

- Collaborative Visualization Techniques
- Performance Measurement Visualization
- Decision Support Systems
- Visual Analytics
- Transportation Operations Visualization
- Augmented Reality Applications
- Multivariate/high dimensionality visualization
- Categorizing and clustering categorical data
- Resolution issues for large datasets
- Quantifying "good" visualization
- Automating and simplifying visualization
- Interactive trees, node-network graphs, 3D, and comparisons of datasets

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Questions should be submitted to Symposium Co-Chairs Rob Hranac <rch@iteris.com> and Kevin Stewart <kevin.stewart@infrabim.com>