

**TRB Standing Committee on Roundabouts ANB75  
2017 Annual Meeting, Marriott Marquis Ballroom Salon 9 (M2)**

Wednesday, January 11, 2017, 2:30 to 6:00 pm

**COMMITTEE SCOPE:** The TRB Committee on Roundabouts is concerned with all factors encompassing modern roundabouts. The Committee provides focus within TRB on current issues and future research needs pertaining to modern roundabouts. It serves as a forum for discussions about roundabout research, projects, and policy for all interested stakeholders; identifies research needs and develops research problem statements to meet the needs; and facilitates the exchange of knowledge by various media, meetings, and conferences.

See the committee website, [trbroundabouts.com](http://trbroundabouts.com), for 2017 [meeting handouts](#) including Agenda, ANB75 Webinars Completed in 2016, Scheduled webinars for 2017, background on “public relations” motion passed last January ( 2016) which needs to be changed, partial list of State & Federal research as of 2016, and ANB75 research needs statements (RNS) posted as of 12/17/2016.

**MEETING ATTENDANCE**

Bismark	Agbelie	Fred	Hanscom	Robert	Rescot
Hasnain	Ali Syed	Dave	Henkel	Cornell	Robertson
Ahmed	Amer	Tony	Hull	Lee	Rodegerdts,
Mohammad	Amin	Hillary	Isebrands	Gene	Russell,
Melissa	Anderson	Pete	Jenior	Akshay	Sabhanayaga
Janet	Barlow,	Mark	Johnson	Katy	Salamati
Christina	Barry	Nan	Kang	Victor	Salemann
Andrea	Bill	Jeremy	Kashman	Dona	Sauerburger
Tom	Blust	Mariusc	Kiec	Hardik	Shah
Keith	Boddy	Sanhita	Lahiri	Jeff	Shaw
Marcus	Brewer	Steve	LeBlanc	Daniel	Shihundu
Will	Britnell	Richard	Li	Bastian	Shroeder
Frank	Broen	Gord	Lovegrove	Daniel	Spann
Ross	Capon	Marilo	Martin Gasulla	Hermanus	Steyn
Gil	Chlewicki	Michael	Mastaglio	James	Sullivan
Craig	Cogan	Mike	McBride	Steve	Thieken
Phil	Demosthenes	Howard	McColloch	Samuel	Tigner
Ray	Derr	Dimitra	Michalaka	Abram	Van Elswyk
Said	Easa	Kazunori	Munehiro	Brian	Walsh,
Sepideh	Eshragh	Aung	Myin Thu	Yubian	Wang
Deo	Eustace	Hideki	Nakamura	Xin	Zhang
Dennis	Eyler	Bryan	Nemeth		
Bertus	Fortuijn	Wade	Odell		
James	Foster	K.	Ostrowski		
Lukas	Franck	Matt	Papirnik		
Franklin	Gbologah	Randall	Parker		
Karen	Giese	Craig	Parks		
Joseph	Glowitz	Alek	Pochowski		
Ranjit	Godarathy	Rachel	Price		
Katie	Handel	Charles	Proctor		

## **SUMMARY OF MEETING ACTION ITEMS:**

- 5<sup>th</sup> International Roundabout Conference will be in Green Bay, WI May 8-10, 2017. Early Bird registration ends March 8, 2017. <http://www.trb.org/Calendar/Blurbs/172194.aspx>
- New Problem Statement for Unintended effects of splitter islands, channelizing island and curbing at roundabouts and other intersections types. Co-sponsor with the Intersections Joint Subcommittee.
- 2017 webinars - Send ideas to Gene for additional webinar topics.

## **MEETING MINUTES:**

### **I. CALL TO ORDER (Gene Russell and Brian Walsh, Co-Chairs)**

The meeting was called to order at 2:30pm ET.

### **II. WELCOME AND SELF INTRODUCTIONS (All)**

Self introductions were made by all in attendance and sign in sheets were circulated. If you were there but do not see your name contact gene : <geno@ksu.edu>

### **III. APPROVAL OF MID YEAR MINUTES (Gene Russell)**

A motion was made by Phil Demosthenes to approve the mid-year minutes. Brian Walsh seconded the motion. There was no discussion. Mid-Year meeting minutes were approved unanimously.

### **IV. TRB STAFF REPORT (Bernardo Kleiner and Mike Griffith)**

- Over 14,000 people were registered this year for TRB.
- 5,800 papers were submitted.
- Transportation Research Record (TRR) will be fully electronic in 2018. NO print copies will be made. Papers will go live online as they are edited and completed.
- The Leadership Group wants to emphasize that TRB wants to publish quality papers so the review process is vitally important. It takes 6-9 hours to edit every paper. Poorly written papers consume a lot of time during the editing process and should be considered in the review process.
- Hybrid sessions are a new type of session that include a very short presentation (3-5 minutes) and then a poster session where authors can speak to the details. You can have up to 12 papers per session. The Hybrid sessions do count for one of the committee's session.
- The 2018 Annual Meeting will be held January 7-11, 2018.
- TRB is looking for people to volunteer to be mentors and mentees for the paper review process.

## V. AWARDS

A nomination has been submitted for the Frank Blackmore Award this year. Additional nominations will be taken through February 1, 2017. All nominations will be sent to the Committee Members for review and voting. Gene Russell will send out the nominations and criteria for the Award. Deadline for voting is February 20, 2017 for committee members. A majority of the official members (18 at this time) must vote "Yes" for the award to be given. (Post meeting note: The nominee was Pat Fleming and he was subsequently approved by a majority of the committee. Thanks to those members who bothered to vote. Congratulations Pat)

The 2017 Best Paper Award was presented to *Paper 17-06219, Operational Evaluation of Two-lane Roundabouts at Freeway Ramp Terminals*, By Zhixia Li, Madhav Chitturi, Andrea Bill, and David Noyce.

## VI. SUB-COMMITTEE REPORTS

### a. Annual Meeting Papers (Hillary Isebrands)

Thank you to all the authors, reviewers and session presiders of the papers. 96% of the reviews were completed. The committee had 22 papers submitted for review and 13 papers were accepted for presentation. Eight (8) papers were presented in the podium session and 5 papers were presented in the poster session. The re-review deadline is January 31, 2017 and reminder emails were sent out January 11, 2017 to those reviewers who need to re-review. Notifications to the authors will be made by February 15, 2017. It is anticipated that our committee will be able to publish 3 papers this year.

### b. Annual Meeting Sunday Workshops

The committee sponsored or co-sponsored 3 Sunday workshops this year, 2 free Sunday workshops and a Human Factors workshop. All were well attended.

#### 1. Free Sunday Workshops

i. Roundabouts and Channelized Turn Lanes: Access for Pedestrians, Particularly those with Vision Disabilities (Janet Barlow and Bastian Schroeder)

Based on: NCHRP Report 834: Crossing Solutions at Roundabouts and Channelized Turn Lanes for Pedestrians with Vision Disabilities: A Guidebook

Janet Barlow, Accessible Design for the Blind (ADB), presiding  
Sponsored by Standing Committee on Roundabouts (ANB75); Standing Committee on Accessible Transportation and Mobility (ABE60); Standing Committee on Geometric Design (AFB10); Standing Committee on Operational Effects of Geometrics (AHB65); Standing Committee on Pedestrians (ANF10) Pedestrian Safety at Roundabouts and CTLs: FHWA Perspective and Research (P17-21860) Elizabeth Hilton, Federal Highway Administration (FHWA) NCHRP 3-78a and 3-78b: Research Background and Outline of the Guide (P17-21861) Bastian Schroeder,

Kittelsohn & Associates, Inc. (KAI) Overview of Design Process for Roundabouts and Channelized Turn Lanes (P17-21862) Lee Rodegerdts, Kittelsohn & Associates, Inc. (KAI) Access Principles for Pedestrians who are Blind: Crossing and Wayfinding (P17-21863) Janet Barlow, Accessible Design for the Blind (ADB) Wayfinding Assessment (P17-21864) Janet Barlow, Accessible Design for the Blind (ADB) Crossing Assessment (P17-21865) Bastian Schroeder, Kittelsohn & Associates, Inc. (KAI) Implications of Wayfinding and Crossing Assessments on Design Practices (P17-21866) Lee Rodegerdts, Kittelsohn & Associates, Inc. (KAI)

- ii. Co-sponsored Public Involvement for Innovative Intersection Projects
- Walter Moore, Neel-Schaffer Inc.; Rusty Ennemoser, Florida Department of Transportation; Claudia Bilotto, WSP|Parsons Brinckerhoff, presiding Sponsored by Standing Committee on Public Involvement in Transportation (ADA60); Standing Committee on Roundabouts (ANB75) Innovative Intersection Outreach Lessons Learned (P17-20683) Mark Lenters, GHD, Inc. Andrew Heath, Georgia Department of Transportation

## 2. Human Factors Workshop

- Can Consideration of Human factors Issues Solve Operational Problems at Roundabouts? - Brian Walsh, Washington State Department of Transportation, presiding Sponsored by Standing Committee on Roundabouts (ANB75) Are roundabout designs meeting the performance expected of them? Are there human factors elements that contribute to a roundabout exceeding expectations for all users? (P17-22062) Brian Walsh, Washington State Department of Transportation Mark Johnson, MTJ Engineering, LLC Standard and Innovative Signing and Marking Practices (P17-22063) Steve Thieken, Burgess and Niple, Inc.

i. Explored ideas for the update to the Human Factors Guidelines as they are dedicating a chapter to roundabouts

ii. Considered more research on driver information overload

Post-meeting note: there was a TRB Roundabout committee webinar on February 8<sup>th</sup>, "Human Factor Issues with Roundabouts; The Need for Better Guidance", where Sam and Brian summarized the basic findings from the workshop and much more. Recording available on the TRB Webinar Website

### c. Annual Meeting Video Theatre (Rachel Price)

The video theatre had over 60 people again this year. A new format was used that combined a video session followed by a poster session. Volunteers always needed. This was a very interactive forum for attendees. There was discussion about how the video theatre is "advertised" in the TRB book. ***It is shown as a meeting. Is the committee okay with that?*** Please [respond to Rachael](#) if you have any views on this or any ideas for the

future. In the sign-up sheet several indicated they would like to be on the Roundabout listserv Gene maintains through KSU, They were added to the listserv. If anybody else would like to be added just [email Gene](#).

#### **d. International Conference (Andi Bill)**

The 5<sup>th</sup> International Roundabout Conference will be held in Green Bay, WI May 8-10, 2017. 136 Abstracts were reviewed and authors will be notified in the coming weeks if they were selected for the conference agenda. Registration information can be found at <http://www.cvent.com/events/5th-international-conference-on-roundabouts/event-summary-e41055eaaabe48d9a23511bd91f9f3e2.aspx>

- A highlight of the 2017 conference is the bus tour session planned for Tuesday afternoon (pre-registration required). The conference website advertises options for tours of roundabouts related to truck use, bicycle use and pedestrian use. A general tour of roundabouts of interest is also planned as part of this activity. Our local arrangements committee is planning the tour sites and routes to minimize travel time and maximize viewing time.
- Special events, as in the past, are planned for the Tuesday evening. In this case a visit to the Green Bay Packers stadium where tours and a reception is planned.
- The conference program has a variety of papers, speakers and posters. At this conference we're seeking to enrich the roundabout community with more evidence-based presentations, but we intend to gather case study and practice experience presentations from the grass-roots roundabout practice community also.
- The poster session will be larger this time. As a Committee we owe it to the roundabout practice community to review posters that are proposed. (Andrea Bill and Bernardo need to send out an email to potential poster submitters to send in their draft posters for review by March 1<sup>st</sup>)

#### **e. Website (Abram Van Elswyk)**

Thank you to Abram for all his work on the website. Would like to have a banner of roundabouts - revolving pictures - from multiple sources. [Contact Abram](#) if you have some to share and it will be considered for the website.

#### **f. Research**

Gene reminds us that TRB's middle name is "research." Presentation were given on the following topics. For convenience, and to keep these minutes to a reasonable length, all presentations will be posted on the committee website [trbroundabouts .com](http://trbroundabouts.com)

- Roundabout research in Wisconsin ( Andi Bill, Univ Wisconsin)  
see Wi research Bill at [trbroundabouts.com](http://trbroundabouts.com)
- Roundabout intersection sight distance (Said Easa, Univ Toronto)  
see Said Roundabout Committee Presentation at [trbroundabouts.com](http://trbroundabouts.com)

- Status of know major projects ( Lee Rodegerdts, Kittelson)  
see Lee R Project 17- at trbroundabouts.com

Deadline for the NCHRP Synthesis Statements is February 15, 2017.

Thank you to those who contributed to the Problem Statement for the Roundabout Guide 3<sup>rd</sup> Edition, lead by Lee Rodegerdts. This is in the current cycle for consideration for NCHRP projects.

Research Needs Statements Survey (Phil Demosthenes)

- Phil thanks all of those who filled out the survey monkey prioritizing our 41 RNS. The results of the RNS survey were presented and discussed. See [RNS Survey results](#) at trbroundabouts.com. Once the list is cross-referenced and duplication is removed, an additional survey will be sent out to prioritize the top 3-5 RNS.
- The RNS should be cross-referenced with the Roundabout Guide 3<sup>rd</sup> Edition scope.
- Possibility for collaboration on a research problem statement on splitter islands, channelizing islands and curbing with the Intersections Joint Subcommittee. ACTION: Hillary Isebrands and Jeff Shaw will coordinate between the committees on the Problem Statement.

#### **g. 2018 Schedule (All)**

Call for Papers, Sessions, Workshops, Webinars will be discussed at the May meeting at the International Roundabout Conference in Green Bay. A Committee meeting is currently scheduled for Monday, May 8 from 7-9pm Central Time.

### **VII. OTHER SUBCOMMITTEE REPORTS**

#### **a. Communications**

Check out our new website trbroundabouts.com

#### **b. Younger Member (Robert Rescot)**

TRB is looking for ways to involve younger members and Robert will be working with current and new Members to provide mentor/mentee opportunities within the committee work, for example, reviewing papers.

#### **c. Webinars (Gene Russell)**

The 3 TRB roundabout webinars are very well attended with satisfaction rates close to 100%. See attached summary of the 2016 Roundabout webinars. A more complete summary of 2016 webinars and accepted 2017 webinars, was handed out and can be seen on Committee website: <trbroundabouts.com> under "Meeting handouts 2017"

2017 webinars - Send ideas to Gene for additional webinar topics.

- February 8, 2017 - Human Factors issues with Roundabouts
- TBD - Mini roundabouts

- TBD - Reconstructing Traffic Circles to Modern Roundabouts

**d. Business Sub-Committee No meeting**

**e. Liaison Sub-Committee (Bastian Schroder)**

Refer to the email Bastian sent out December 28, 2017 requesting feedback on partnering committees and task forces.

It was suggested that we provide some additional coordination with the bike committee. Any roundabout committee member interested in bicycles; or friend who attends both meetings, please let us know your interest of providing liaison

**f. Emerging Issues Sub-committee (Jeff Shaw)**

- Connected Vehicle (Ken Sides/Joe Balskus) -

Joe Balskus is trying to get in touch with Tesla and Uber. Ray Derr mentioned that the French have worked in the area of merge controls.

- Freight (Peter Lynch) no report
- Roundabout Inventory (Ken Sides) no report

**g. Public Relations Sub-committee (Mark Lenters)**

The approved proposal of a PR committee (voted on in January 2016) was deemed outside the scope of TRB. A motion was made to rescind that motion by Lee Rodegerdts. There was no additional discussion. Hillary Isebrands 2<sup>nd</sup> the motion and it was approved to rescind the previous motion unanimously.

New language was proposed as follows:

"The Roundabout Committee wishes to set-up a Public Relations subcommittee to compile information from research and case studies that may be used at public hearings and similar venues where discussions of roundabout advantages and potential implementation are debated, to be available to present facts to combat erroneous, negative presentations and publications."

Brian Walsh moved that we approve the revised language describing the purpose of the PR sub-committee. Mark Johnson 2<sup>nd</sup> the motion and the new language was approved unanimously.

**VIII. AGENCY LIAISON REPORTS** ( Unfortunately, time ran short for an adequate discussion of reports for all agencies for which gene apologizes- but the committee does do a lot and has a lot to cover. I think in the future we will have to do more via emailed reports, and/or more business done in subcommittees via conference calls or video conferences prior to the annual meeting. Most of the below were from emailed reports. If anybody out there has a more detailed report, update or corrections to those below please contact gene, Brian or Hillary or all three.

- NCUTCD (no written report)**
- NCHRP( no written report)**
- ASCE T&DI (No report)**
- Access Board (No report)**

**e. TAC (Keith Boddy)**

The Canadian Roundabout Design Guide is being published by the Transportation Association of Canada in the next few week-months. This includes the design domain concept included with information and guidance from many researched sources. When the document is available, a link will be provided to the publication.

**f. ITE (Phil Rust)**

ITE Roundabout Sub-committee is creating a roundabout marketing guide. ITE is celebrating with those of you who have recently built a roundabout. Please share your story on the ITE Roundabout Community Blog for a chance to be published in the ITE Journal, present at the annual meeting, and participate in our quarterly webinar.

**g. AASHTO (Jim Brewer)**

AASHTO's goal is to print the next edition of the Green Book in 2017 or early 2018.

**h. FHWA (Jeff Shaw and Hillary Isebrands)**

- TOPR 34 – Accelerating Roundabouts in the US – 7 topics  
<https://safety.fhwa.dot.gov/intersection/innovative/roundabouts/>
- SBIR Mini Roundabout Low Cost Modular project is in Phase 2 development and will be conducting 3 demonstration projects.
- Mini Roundabout DRAFT Report is being reviewed and it will be published in 2017
- SPICE Intersection Control Evaluation Selection Tool (Similar to CAP-X but safety counterpart) – HSM Pooled Fund Project. SPICE will include NCHRP 17-70 results; conventional intersection – early 2018, need Beta testers
- ICE policies 5 State DOT's have ICE policies and 5 more states are in the development stages of a policy

**IX. INTERNATIONAL REPORTS (Coordinated by Colin Ridding- thank you Colin)**

**a. [Germany](#) - Werner Brilon**

**b. Australia (no report)**

**c. [UK](#) - Colin Ridding**

**d. [Japan](#) - Kazunori Munehiro**

**e. [New Zealand](#) - Don McKenzie**

**f. [Netherlands](#) - Bertus Fortuijn**

**g. [Spain](#) - Marilo Martin-Gasulla**

**h. Canada (Keith Boddy) Given at meeting**

- There are approximately 400 roundabouts across Canada, the numbers are growing with many new projects being implemented across the country.
- Key design challenges include allowances for OSOW vehicles, including Wind Turbine components as well as super loads associated with resource development.

## X. TRB COMMITTEE LIAISONS

Again, apologies for not having time to cover these. Bastian is attempting to cut this list down to a more reasonable group of importance for us to keep contact with. Please if anyone below has a report that should be of interest for joint cooperation, please let Bastian, Gene or Brian know Also, if any below should be taken off our list, please send us your viewpoint) ( **post meeting note: Only one report was received. From Marcus Brewer**)

a. AFB10 Geometric Design (Marcus Brewer) AFB10 (Committee on Geometric Design) Liaison Report to the 2017 Annual Meeting of ANB75 (Committee on Roundabouts)

1. Final planning is underway for the 5th Urban Street Symposium (and Midyear Meeting), held jointly with AHB65 (Committee on Operational Effects of Geometrics) and with NCSITE in Raleigh, NC (May 21-24, 2017). We encourage everyone to join us. More information can be found at [www.urbanstreet.info](http://www.urbanstreet.info), and additional details will be added as they are confirmed.

2. Initial planning for the 6th International Symposium on Highway Geometric Design in 2020 has begun. The location of the meeting, either Amsterdam or Beijing, will be determined by this year's mid-year meeting at the Urban Street Symposium.

3. The Geometric Design Committee is interested in opportunities for collaboration on future research needs statements (RNS) of mutual interest. I serve as the committee's research coordinator, so volunteers can contact me with ideas at [m-brewer@tamu.edu](mailto:m-brewer@tamu.edu).

- b. ANB25 Highway Safety Performance (Melissa Anderson)
- c. AHB70 Access Management (Phil Demosthenes)
- d. AHB50 Traffic Control Devices (Gene Hawkins)
- e. ATO55 Truck Size and Weight (Peter Lynch)
- f. AHB55 Work Zone Traffic Control (Wade Odell/Bastian Schroeder)
- g. AHB65 Operational Effects of Geometrics (Andrew Paul/Jeff Shaw)
- h. AHB40 Highway Capacity (Lee Rodegerdts/Bastian Schroeder)
- i. ANF10 Pedestrians (Alek Pochowski)
- j. ANF20 Bicycle Committee (Alek Pochowski)
- k. ABE60 Accessible Transportation and Mobility (Janet Barlow)
- l. Intersection Joint Subcommittee (Jeff Shaw)
- m. AHB60 Hwy-Rail Grade Crossings (Gene Russell) No Activity
- n. ALO60 Eminent Domain and Land Use (Phil Demosthenes)
- o. ALO70 Tort Liability and Risk Management (Gene Hawkins)

- p. ANB10 Transportation Safety Management
- q. AND40 Visibility Committee (Wade Odell)
- r. ANB23T Task Force on Highway Safety Workforce Development ?
- s. ANB20 Safety Data, Analysis and Evaluation ?
- t. AHB25 Traffic Signal Systems ?
- u. ANB30 Operator, Education and Regulation ?

**XI. ADJOURN**

The meeting was adjourned at 6pm ET.

Xii. The mid-year meeting will be by Internet sometime in August.