



TRB Committee on Roundabouts ANB75
2015 Midyear Meeting
Monday, August 3rd, 2:00-3:30pm
Hollywood FL (Diplomat Resort Hotel, Room 217)
(in conjunction with ITE Int'l Meeting)
Meeting Minutes

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.

Committee Website: <https://sites.google.com/site/trbroundaboutscommitteeanb75>

AGENDA:

1. Call to Order (Gene Russell, Brian Walsh, Co-Chairs) 2:05 PM
2. Self-Introductions (All present)
3. Comments from the Co-Chairs (Gene Russell & Brian Walsh)
4. Comments on Annual and/or Web Minutes (Gene)
5. TRB Report/Comments (Rich Cunard) and discussion of committee activities on Connected Automated Vehicles (Gene, Brian) 2:10
6. Preliminary planning for 2016 Annual Meeting -Brian Items to consider: 2:25
 - a. Sunday workshop? No for 2016.Future ? (Brian)
 - b. HF workshop? No for 2016.Future ?(Janet)
 - c. Video Theatre? Ideas for future /and or expansion of format ? (Rachel, Brian)
 - d. Call for papers? Call for Poster Session? Discussion of (Gene /Brian)
 - e. Paper review volunteers- members & friends (Gene)
 - f. Other items?
7. Review and status of Committee Business Plan (Gene) 2:30
 - a. includes role of subcommittees & task forces
 - b. member and friend sign up for subcommittees & task forces
8. Research. 2:35
 - a. Discussion of TRB Research Needs Statements (RNS) new guidelines
 - b. Picking a top group for formal submission and volunteers to work on them
 - c. Research news from anyone present or writing in
9. Subcommittee/Task Reports 2:40
 - a. Communications Coordinator & Website (Gene & Brian)
 - b. Freight Task (Peter Lynch, Jeff. Gene)
 - c. Roundabout Guide Future Plans (Lee Rodegerdts)
 - d. Younger Member activities (Robert Rescot)
 - e. Webinars - past and future (Gene)
 - f. Auto Roundabout Inventory; (Ken Sides)

- g. International Coordinator (Colin R)
- h. 2017 International Conference (MarkLenters)
- 10. International News (Colin, Gene from email reports) 2:50
- 11. Agency Liaison Reports 3:00
 - a. NCUTCD (Lee Rodegerdts, Brian Walsh or others)
 - b. ITE (Mike McBride)
 - c. AASHTO Design (Jim Brewer); Traffic Engineering (Brian)
 - d. FHWA (Jeff Shaw, Mark Doctor, , Joe Bared, or others)
 - e. NCHRP (Ray Derr or others)
 - f. ASCE/TD&I (Gene Russell)
 - g. TAC/Canada (Keith Boddy)
 - h. Access Board (Melissa Anderson)
 - h. NACE?
 - I. NACO?
 - j. NACTO?
- 12. Old Business 3:10
 - a. Discussion of Blackmore and voting (Gene)
 - b. Other?
- 13. New Business 3:15
 - a. Ideas and volunteers for added activities, new subcommittees, task forces
 - b. Other?
- 14. Committee Liaisons as Available and Time Permits 3:20
- 15. Open for Attendee Comments or Questions 3:25
- 16. Adjourn 3:30

MINUTES

1. Call to Order (Gene Russell, Brian Walsh, Co-Chairs) 2:05 PM
2. Self-Introductions (All present – 21 attendees; see attachment 1)
3. Comments from the Co-Chairs (Gene Russell & Brian Walsh) by holding the mid-year meeting at the ITE Annual Meeting we try to match up the meetings to take advantage of in-person attendance.
4. Comments on Annual and/or Web Minutes (Gene) Minutes will be officially voted on at the Annual Meeting. Go to the new website: www.trbroundaboutscommitteeand75 to read these minutes and other news.
5. TRB Report/Comments (Rich Cunard) and discussion of committee activities on Connected Automated Vehicles (Gene, Brian) 2:10
 - Rich Cunard was at a recent meeting at the University of Western Michigan convened auto manufacturers and other stakeholders. TRB is active and monitoring the progress in automated vehicles. U.S. DOT had early pilot studies dating back to the Manned Moon missions. Google's digital roadmap and fully automated vehicle is setting the trend. It was noted the Google vehicle has had a few crashes with other cars trying to predict its logic while traveling. Google car has 10-million miles on their vehicles in real world conditions. Vehicle to vehicle communications is a particular area of focus. On the Infrastructure side, solutions including devices, in-pavement and freight related ideas are being researched by TRB. The Annual

meeting will have two workshops including European Union research activities. There may be up to 20 sessions during the Annual Meeting related to Autonomous research

- Brian noted Autonomous Vehicle Tour he took as part of the AASHTO SCOTE meeting in San Antonio. It was held at the SW Research Institute and featured a number of different demos including car following and car avoidance systems. He also noted that while they had a traffic signal, he was unable to find a roundabout on the course.
- University of Michigan has a roundabout in their M-city. See the website at M city@ the University of Michigan website
- 5400+ papers were received at the August 1 deadline. [Coordinating reviewers of the 2016 roundabout papers are Gene Russell, Hillary Isebrands and Brian Walsh. They will coordinate the reviews with the help of other Committee members.]

6. Preliminary planning for 2016 Annual Meeting (Brian). Items to consider: 2:25

a. Sunday workshop? No for 2016. Future ? (Brian) In the past we've had varying levels of attendance of 10 to 50+ people. 2015's session was not so well attended for various reasons including new location and large rooms that didn't feel quite as cozy (Brian). we take a break and did not submit a proposal for a sponsored session in 2016. In the future, a session could be a workshop versus another panel of speakers. The roundabouts theatre is a good venue to present and have networking; however, we may need to revise based on room arrangement and audience participation (Gene)

b. Human Factors workshop? No for 2016. Future? (Janet) No report.

c. Video Theatre? Ideas for future /and or expansion of format? (Rachel, Brian) Rachel brought in more designers with case studies. In the past we had a library or meeting room for case studies back-to-back with the theatre. We could try to combine the two but it needs to be organized carefully to manage the crowd and speakers. Brian will speak to Rachel about how to integrate topics, speakers and overall coordination.

d. Call for papers? Call for Poster Session? Discussion of (Gene /Brian) Papers for presentation or poster will be decided after September 15th. Gene emphasized that being selected for a poster session should be considered as valid as being asked to present the paper. Posters are starting to become major venues at the Annual meeting.

e. Paper review volunteers- members & friends (Gene) Gene circulated the list of reviewers to confirm that Committee members need to be reviewing papers. Gene invited others who are interested to add their names as reviewers. Papers will be assigned to every Committee member. Members have expressed a desire to pick certain topics on a first-come and first-serve basis, and this will be done. Two sessions are proposed with four to five speakers each. There may also be invited speakers but they would be held up to the past standards. Podium sessions will be equal with poster session content in value and importance.

f. Other items? None brought up

7. Review and status of Committee Business Plan (Gene) 2:30

The Business Plan was passed by the members by a majority email vote prior to the mid-year meeting. Gene reminded members that he wants all of them to identify with a sub-committee.

Also:

- Task Leaders and subcommittee members do not need not be Committee members.
- The Research Sub-Committee, Chair Phil Demosthenes, could use assistance and participation of members and friends willing to keep the TRB RNS updated and enhance one or more priorities as formal proposals for NCHRP (or other) submission annually. The Human Factors and Other Workshops Sub-committee, Chair Janet Barlow; Liaison Sub-committee, Chair Bastian Schroeder; Annual Meetings Sub-committee, Co-Chairs Brian and Hillary; Critical and Emerging Issues, Chair, Jeff Shaw; Roundabout Guide Sub-committee, Chair Lee Rodegerdts; and Webinars Sub-committee, Chair Gene Russell, could all use members and/or friends willing to work.
- .
- The Critical and Emerging Issues Sub-committee now has two Tasks 1. Freight, leader, Pete Lynch and 2. Connected Automated Vehicles, leader, Joe Balskus [Joe volunteered at the meeting]
- The Business Plan includes the role of Sub-committees and Tasks
- Members and friends should sign up for various sub-committees or tasks if they have not already done so.
- Gene commented that the Business Plan is a living document and should be reviewed and updated at least annually.
- Two future tasks under consideration are Education and Training, and Policy. [These would need a volunteer to work out and propose]
- See attachment 2 for a copy of the Business plan as adopted

8. Research. 2:35

a. Discussion of TRB Research Needs Statements (RNS) new guidelines

Gene circulated the list of research needs that Phil Demosthenes compiled with the advice to leave the ideas 'out there' but take some priority topics each year and develop them into full research proposals, knowing there may be only one or two that become eligible for funding. Gene asked member and friends to vote on two or three that are urgent enough to become proposals in the next roundabout of detailed proposals. Some subjects might make better syntheses however were not separated from the master list. Phil's thoughts (via email to Gene) are that we need more effort on implementation of roundabouts. Committee energy needs to go toward implementation and public acceptance. Comments from those in attendance today are that we strive and need to be as objective as we can be. Some felt that over-promoting roundabouts is a concern with current process. Others felt that this Committee represents advocacy in its best form. Developing a process for implementation would be a more objective pursuit. A synthesis report could capture the common elements of successful implementation. A good example of implementation is the Highway Safety Manual. A Circular could be developed on the crash reduction benefits. Ken Sides was volunteered to carry out this task, of developing a circular.

b. Picking a top group for formal submission and volunteers to work on them is a task ahead of us

c. Research news from anyone present or writing in to Co-chairs

Andy O'Brien shared some Australian studies and insights. Cycle safety is increasingly becoming an issue in urban roundabouts. Although traffic signals have a higher crash rate, roundabouts have garnered attention with crashes that are increasing each year. The ironic part is that design isn't all the issues. Some terrible designs (Andy) have no crashes while others that follow some good guidelines have numerous crashes. More to come.

9. Subcommittee/Task Reports 2:40

- a. Communications Coordinator & Website (Gene & Brian) No update
- b. Freight Task (Peter Lynch, Jeff. Gene) no report
- c. Roundabout Guide Future Plans (Lee Rodegerdts) [via email, Lee asked for members/friends wanting to assist]
- d. Younger Member Activities (Robert Rescot) [emailed report in attachments]
- e. Webinars - past and future (Gene)

Gene and Brian outlined the great success of past webinars and invited topics for future offerings. TRB invites up to two sessions per year. There have been 10 webinars developed and presented by the Roundabouts committee with TRB's support. They ranged from "state programs" to "OSOW Freight" to "Accessibility". For an idea of their success, the past six (6) webinars and their "success" based on the "estimated numbers who attended" and "percentage that rated the webinar good or excellent were:

1099 - 96%

1112 - 96%

0856 - 96%

1129 - 94%

1217 - 88%

See attachment 3 for more details of the 10 presentations

Gene wanted the Committee to be very proud of this record. Many took part in either being moderators or presenting the material as Subject Matter Experts. This was a major accomplishment of this Committee and should inspire us to do more webinars. We will be looking to submit on at least a couple of webinars this coming year. Some suggestions that seem to have pieces in place already include: Accelerated Construction Techniques, Concrete versus asphalt, grades, using material to install small compact roundabouts [Mark Lenters volunteered to work on one in the area of construction]

f. Auto Roundabout Inventory; Ad Hoc sub-committee chaired by Ken Sides; Ken has made contact with a company that has the X/Y coordinates for the U.S. roundabout locations. He is continuing to dialogue on the commercial viability of obtaining that data set. Tags could be added to differentiate traffic calming circles from conventional roundabouts.

g. International Coordinator (Colin R) (see attachment 4 for Colin's emailed report)

h. 2017 International Conference (MarkLenters)

Talking points from the dialogue of recent local arrangements committee meetings for the 2017 International Roundabout Conference, Green Bay, WI, May 2017:

- Local arrangements responsibilities and leadership have been set up with significant involvement of The University of Wisconsin and the Wisconsin Department of Transportation.
- The conference is being held in the Green Bay area where there is a wealth of roundabouts and local culture.
- A theme has not been chosen for this conference as yet but there are some elements that will receive particular emphasis or attention at the 2017 conference, namely:

- An increase in the number of written papers and with that an improvement in the evidence-based approach to the science of roundabouts. Data driven papers will be strongly encouraged but practice oriented papers will also be invited.
- Some podium presentations will be invited and poster sessions as at past conferences. There will be invited speakers as in the past and non-technical speakers also e.g. on-tour/paper with perspectives of:
 - Freight, Police, Fire, Legislators
 - Previous speakers updates capacity, safety and practice program
 - Conversation circles will be held to promote dialogue that is more formal for consensus building.
- The conference format of paneled sessions will continue as in the past, but will be reduced to three speakers in the same panel duration that provided for four in the past. The intent is better quality papers and presentations and more time for Q&A.
- The paper invitation process will commence this fall with invitations for abstracts. Abstracts will be reviewed according to a broad topic list and juried for selection of authors for papers. Approval of an abstract does not imply tacit approval of a paper. The paper must still be submitted in advance and juried as well.
- Unique to this venue is the presence of many complex and non-complex roundabouts - a veritable laboratory of roundabout interchanges and site where data has been collected in the recent past. One afternoon of sessions will be comprised of papers given on tour of the local roundabout projects. This will afford a science-minded interpretation of the tours. Individual bike, walk and vehicle tours will be provided. A local truck driver training company will be contacted to give the trucker's perspective on-site as well.
- We are investigating an off-site visit to the Green Bay Packers Stadium for a tour and reception.
- Several states will be approached for sponsorship as will FHWA and some national associations, e.g. ACEC.
- Participation in local arrangements will be by invitation – we're looking for specific talent that is locally oriented.

10. International News(ColinRidding ; see attachment 4) 2:50

[Andy had shared cycle safety issues earlier in the meeting with regards to Australia]

11. Agency Liaison Reports 3:00 Gene received reports by email and read them out to the Committee. NCUTCD (Lee Rodegerdts or others) see attachment 4

b. ITE (Mike McBride)no report

c. AASHTO Design (Jim Brewer); Traffic Engineering (Brian)

Brian reiterated that AASHTO SCOTE meeting this summer did touch on roundabouts and their use by the various states and the importance of having traffic engineers fully engaged on this tool and its application, benefits, etc.

d. FHWA (Jeff Shaw, Hillary Isebrands, Mark Doctor, , Joe Bared, or others)no report

e. NCHRP (Ray Derr or others) (Richard) no report

f. ASCE/TD&I (Gene Russell) TD&I is beginning to include some roundabout papers in their conferences

g. TAC/Canada (Keith Boddy)(see attachment 4)

h. Access Board (Melissa Anderson)(see attachment 4)

<u>Name</u>	<u>Organization</u>	<u>Name</u>	<u>Organization</u>

Attachment 2

TRB Committee on Roundabouts (ANB75)

Business Plan Adopted by Majority Vote 8-3-15

Committee Mission: To expand the body of knowledge regarding modern roundabouts that affect their safe and efficient operations for all users by addressing research needs, providing a forum for domestic and international dialogues and knowledge exchanges, and promoting and disseminating emerging roundabout knowledge, design criteria and operational guidance and practices.

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 on 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.

Committee Organization: The Committee is led by a Chair or Co-chairs and is supported by a Secretary, Research Coordinator, Communication Coordinator, Young Member Liaison and the TRB assigned membership (currently 30 members maximum plus additional Young Members). The Committee also has active participation from friends who sign on to the MyTRB website and those involved in the Roundabouts list-serve and other media, e.g.,

LinkedIn groups. The Committee is supported by a number of permanent subcommittees, currently Research, Human Factors and Other Workshops, Business, Liaison, Conferences, Annual Meeting Sessions, Webinar, Roundabout Guide, Critical and Emerging Issues and International Activities. Ad Hoc committees or task forces will be named as necessary to enhance committee business and/or permanent committee operation and may become permanent if appropriate.

- Research Subcommittee: Purpose is to coordinate and manage the strategic research program related to roundabouts. This committee is responsible for producing a listing of research needs based on inputs from others and for producing research needs statements (aka "problem statements") This subcommittee will be chaired by the committee Research Coordinator who may add one or more specific ad hoc subcommittees or task forces under his/her direction for such things as keeping the TRB RNS current, working on specific proposals, etc.
- Human Factors and Other Workshops Subcommittee: Purpose is to promote TRB Sunday Human Factors workshops that focus on human factors elements related to roundabouts, and TRB Sunday free workshops that deal with other issues of current interest. This committee is also responsible for conducting Committee activities that lead to our exploration of technical issues and strategic research needs and priorities related to human factors and other important roundabout issues.
- Business Subcommittee: Purpose is to provide guidance to the committee chair or co-chairs regarding current and future committee structure, activities, priorities, future planning, and such specific committee requirements that may arise such as Triennial Strategic Plan (TSP) reports.
- Liaison Subcommittee: Purpose is to sort out and coordinate those organizations outside of TRB, and those committees and entities within TRB, that have activities and interest in roundabouts to the extent that it is in the Roundabout Committees' interest to keep in contact with them for information of value or interest to the Roundabout Committee and/or potential future co-sponsoring of activities.
- Conferences Subcommittee: Purpose is to oversee planning, organizing and conducting triennial, International Roundabout Conferences. Makeup will normally be the Roundabout Committee Chair or a Co-chair, the current local conference planning chair from the venue decided by the full committee two years in advance and the immediate, past local conference chair, and others that might be deemed necessary

- Annual Meeting Sessions Subcommittee: Purpose is to conduct or oversee annual paper reviews, recommend papers for presentation and publication, select an annual committee best paper award and develop a program of sessions and other activities as appropriate for the annual meeting
- Webinar Subcommittee: Purpose is to propose, plan and submit a minimum of two completed webinar proposal forms to the TRB webinar staff, one in each biennial period. Makeup will normally be the Roundabout Committee Chair or Co-Chair plus other members as deemed necessary.
- Roundabout Guide Subcommittee: Purpose is to oversee planning, support content development, and provide peer review of future editions of *Roundabouts: An Informational Guide*.
- Critical and Emerging Issues Subcommittee: Purpose is to keep the committee informed and up-to-date on critical issues that need to be addressed to overcome possible negative issues with roundabouts or to address new future emerging issues for which it is in the interest of the committee to keep abreast; for example, freight (trucks and oversize vehicles) and automated, connected vehicles. The subcommittee chair may appoint and oversee any number of vice chairs for leading ad hoc subcommittees or task forces on specific issues. It is currently envisioned (2015) that there should be two such vice chairs: freight, and automated connected vehicles.
- International Activities Subcommittee: Purpose is to keep informed of roundabout activities in other countries, in particular any research and publications, and report findings at committee meetings and in addition, coordinate committee related activities of the committee's international members.

Responsibilities of Committee Members

It is the explicit responsibility of all Committee members to support permanent, reoccurring, and ad hoc committee business. Such activities may include:

- Participating as an active member of at least one and preferably two subcommittees.
- Conducting TRB paper reviews, presentation recommendations and paper award activities.
- Participating and/or assisting in mid-year and annual meeting events.
- Participating in forums to discuss technical issues, topics, and research needs related to roundabouts.
- Conducting outreach to external sources in support of committee business.
- Participating on special assignments and forums as they arise.
- Participating in face-to-face meeting when possible and/or through internet or other media sessions.
- Whenever possible, being actively involved in the business of researching and/or implementing roundabouts.
- Welcoming and encouraging friends to participate in all committee activities.

Committee Goals

1. Work with other TRB Committees and external organizations in promoting accurate information exchange regarding roundabouts.
2. Provide guidance over a strategic research program for roundabouts that methodically establishes and addresses research priorities and considers emerging issues, and annually expand and develop top research needs ideas in a form suitable for submittal for funding.
3. Encourage and support the presentation and publication of important research related to modern roundabouts. Disseminate research knowledge and information to transportation practitioners and encourage the explicit consideration of roundabouts on projects to construct new or to reconstruct intersections. This may be accomplished through the annual conference sessions and activities, conferences, the Roundabout Committee listserv, Roundabout Committee-sponsored webinars, and other media such as LinkedIn discussion groups.
4. Conduct committee business needs identified by TRB that are not explicitly included in the above goals.

Committee Strategic Action Items

Goal #1: Work with other TRB Committees and external organizations in promoting accurate information exchange regarding roundabouts		
Action	Target Date	Lead
Develop liaisons as appropriate with other national committees and federal agencies on the inclusion and accuracy of roundabout-specific material. These groups may include the ITE Roundabouts Committee, the NCUTCD Roundabout Task Force, AASHTO, NACE, NACO, NACTO, ASCE, the Access Board, groups responsible for the development of the Green Book, the Federal Highway Administration and others as appropriate. Participate in joint meetings, workshops, liaison and discussions.	Ongoing	Liaison Subcommittee
Use forums through groups such as AASHTO, ITE, APWA, NCUTCD, etc. to encourage all agencies with road building and operational responsibilities to adopt intersection control policies	Ongoing	Liaison Subcommittee
Identify and develop action regarding current and emerging issues, such as freight and automated connected vehicles.	Ongoing	Critical and Emerging Issues Subcommittee
Coordinate roundabout committee member attendance at other TRB committee meetings during TRB	Annually	Liaison Subcommittee
Goal #2: Provide guidance over a strategic research program for roundabouts that methodically establishes and addresses research priorities and considers emerging issues, and annually expand and develop top research needs ideas in a form suitable for submittal for funding		
Action	Target Date	Lead
Identify and maintain a listing of research needs ideas related to modern roundabouts, which will be posted to the Research Needs Statements (RNS) portion of the TRB website.	Ongoing	Research Subcommittee
Prioritize and select top RNS ideas and develop into a form suitable for support from one or more states for submission to the NCHRP proposal solicitation program or other funding sources.	Annually	Research Subcommittee
Develop strategic research needs document, e.g.,	Annually	Research

a "Top Ten Research Issues" document, with input from committee members and other committees		Subcommittee
Plan and support the research needs statement development, content development, and peer review of updates to <i>Roundabouts: An Informational Guide</i>	Ongoing	Roundabout Guide Subcommittee
Investigate and summarize International roundabout activities and coordinate presentations or report on findings for committee meetings	Ongoing	International Activities Subcommittee
Goal #3: Encourage and support the presentation and publication of important research related to modern roundabouts. Disseminate research knowledge and information to transportation practitioners and encourage the explicit consideration of roundabouts on projects to construct new or to reconstruct intersections.		
Action	Target Date	Lead
Issue calls for papers as appropriate	Annually	Annual Meeting Sessions Subcommittee
Plan and organize sessions and activities annually related to roundabouts at the TRB Annual Meeting	Annually	Annual Meeting Sessions Subcommittee
Appoint a video theatre, vice chair to organize the Roundabouts Video Theatre session at the TRB Annual Meeting	Annually	Annual Meeting Sessions Subcommittee
Plan, organize, and oversee a TRB International Roundabout Conference	Every 3 years	Conferences Subcommittee
Propose, and if accepted, plan and organize a human factors workshop at the TRB Annual Meeting	Every 2 years	Human Factors and Other Workshops Subcommittee
Propose, and if accepted, plan and organize a free Sunday workshop at the TRB Annual Meeting	Every 2 years	Human Factors and Other Workshops Subcommittee
Propose, and if accepted, conduct a minimum of two webinars per year	Annually	Webinar Subcommittee
Promote educational institutions to incorporate roundabout analysis and design into their curriculum	On going	Business Committee
Goal #4: Conduct committee business needs identified by TRB that are not explicitly included in the above goals.		
Action	Target Date	Lead
Prepare meeting minutes and committee correspondence	Ongoing	Secretary
Coordinate with TRB on website and other communication needs	Ongoing	Communication Coordinator
Coordinate with TRB on activities and issues related to young members	Ongoing	Young Member Liaison
Provide guidance to the committee chair or co-	Ongoing	Business

chairs regarding current and future committee structure, activities, priorities, and future planning		Subcommittee
Prepare Triennial Strategic Plan	Every 3 years	Business Subcommittee

Attachment 3

Roundabout Committee Roundabouts Sponsored May 2013 to July 2015

Roundabout Design and Development Review, May 16, 2013

Est attendance: 1099

Satisfaction Rate: 96%

Community Outreach: Successful Outcomes for Roundabout Implementation, June 19, 2013

Est. Attendees: 856

Satisfaction Rate: 96%

Roundabout Signing and Marking: State Perspectives and Case Studies, July 29, 2013

EST Attendance: 1112

Satisfaction Rate: 96%

Accommodating Large Trucks and Oversize Loads at Roundabouts: Concerns and Some Solutions, March 7, 2014

Estimated Attendance: 1129

Satisfaction Rate: 94%

Roundabout Accessibility: What Designers Should Know about National Research and Policy, May 28, 2014

Est. Attendance 1028

Satisfaction Rate: 91%

Is North America Ready for the Turbo Roundabout: Development and Advantages With and Without Raised Curbs, August 20, 2014

Est. Attendance: 717

Satisfaction Rate: 88%

Tools for Analysis of Capacity and Efficient Flow for Roundabout Design: Part I, May 6, 2015

Est. Attendance: 1072

Satisfaction Rate: 86%

20 Years of Advancements in Roundabout Design, Roundabout Construction Sequencing and the Case for Illumination of Roundabouts, June 1, 2015

Est. Attendance: 1217

Satisfaction Rate: 87%

Tools for Analysis of Capacity and Efficient Flow for Roundabout Design: Part II, June 11, 2015

Est. Attendance: 463

Satisfaction Rate: 90%

Tools for Analysis of Capacity and Efficient Flow for Roundabout Design: Part III, July 14, 2015

Est. Attendance: 561

Satisfaction Rate: 90%

Attachment 4; Emailed Reports for the mid-year meeting

Young Member Liaison Committee, Chair Robert Rescot: nominations will be coming later this year for the 2016 Outstanding Young Member (for those under 35 as of April 15 of the award year). An announcement will be coming via the weekly TRB E-Newsletter. There is also a website (which is useful for others) with a fairly decent link set to other TRB resources (<http://www.trb.org/A0040T/A0040T.aspx>). There is also the usual debate about younger member poster sessions and how they relate to "regular" committee sponsored sessions. (I'm generally opposed to them as they create a lower bar to clear for acceptance). A full schedule of younger member activities for 2016 will be published at ymc.groupsite.com

Research Coordinator, Phil Demosthenes :Here are my thoughts for the meeting at ITE/Florida.

While we need more research to refine roundabout design and safety, in my opinion, a committee priority should be achieving implementation - more roundabouts. There is already a wealth of information to support agencies to move forward on installing roundabouts yet many states and local governments resist as if roundabouts are a problem to be avoided. So I recommend committee energy directed to outreach, education and support for roundabout decision makers. It is easy to say we need more research. The pursuit of research is not confrontational with agency leadership that may be dragging its feet on implementation. While research needs to continue, the energy of the committee needs to be the production of more roundabouts. I recommend a committee priority for agency policy development, intersection control selection processes and quality control (process) of roundabout design.

We received hardly any response (3) to Gene's request to recommend your top 1 or 2 research priorities. 2 votes for: Geometric Treatments to Enhance Pedestrian and Bicycle Safety at Roundabouts. One each for: Selection of Roundabout Construction Options Safety effects of multi-lane roundabouts; Best Practice Guidance for the Safe and Balanced Striping at Single Lane and Multilane Roundabouts; Roundabout Splitter Island Geometry Effect on Safety and Entry Speed at High Speed Approaches; A Compilation of State and Local Legislation and Policy Documents on Roundabouts; Roundabout traffic control near railroad crossings

#1 My recommendation is for the first one -ped and bike safety - since multi-mode is increasingly important to agencies that fund roundabouts. And, most roundabouts are in urban areas with multi-modal demands. This would be a good field research activity as well as looking at treatments already in use and evaluating their effectiveness.

#2.Construction - a synthesis of practice. (February 2016)

We do not have much on construction. It would be good to delve more deeply into the construction sequencing, techniques, materials and project traffic control. Perhaps a synthesis of practice since this does not lend itself to traditional engineering research - it's more of a search for successful construction techniques and case studies.

#2.Lighting. There seems to be more concerns and an absence of research on how to light a roundabout for safety and operation. This would be a full research project.

The Urban Weave. Several TRB committees are concerned about the lack of updated research on the capacity and safety of urban weaving activity. Examples: Roundabout downstream exit weave from 2 to 1. Access management - downstream and upstream weaving related to access spacing and intersection corner clearance. Capacity folks - how to factor in weaving as it impacts lane capacity. Safety - how weaving generates crash rates. Models are missing accurate factors and there is a strong interest in new field research (empirical studies) to determine weaving effects. At the request of the Access Management Committee, I will be drafting a problem statement for consideration in summer 2016. I hope to have a person from each concerned committee helping with the draft. Philip Demosthenes

Young members liaison, Robert Rescot, Chair :It will be brief, the highlight will be that nominations will be coming later this year for the 2016 Outstanding Young Member (for those under 35 as of April 15 of the award year). An announcement will be coming via the weekly TRB E-Newsletter. There is also a website (which is useful for others) with a fairly decent link set to other TRB resources (<http://www.trb.org/A0040T/A0040T.aspx>). There is also the usual debate about younger member poster sessions and how they relate to "regular" committee sponsored sessions. (I'm generally opposed to them as they create a lower bar to clear for acceptance). A full schedule of younger member activities for 2016 will be published at ymc.groupsite.com

International Member Subcommittee Chair, Colin Riding

As I mentioned I will not be able to make the meeting in Florida.

As requested a few words regarding roundabouts in the UK. Also as I have been working in Kenya for several months so a few comments about that country too.

The UK's first 'turbo' roundabout has recently been installed. Although turbo roundabouts are primarily to improve traffic flow, the design was more focused on providing safer facilities for both cyclists and pedestrians. Fully segregated cycle tracks were provided and tight curve radii to slow vehicles. Pedestrian crossings were also provided on all approaches to the roundabout.

Roundabouts continue to be very popular in the UK. Numerous roundabouts continue to be signalized to improve capacity and safety.

Cyclists do not have a good safety record so new designs are really focusing on safety for cyclists. A roundabout in the London area has recently been installed and this cycle friendly scheme is one of the first of its kind. The innovative design separates cyclists from other traffic by providing segregated cycle lanes. Where cyclists cross the road traffic signals are provided to avoid any potential conflict.

A different story in Nairobi, Kenya. Roundabouts do not operate very well in Nairobi, mainly due to poor driver behaviour and lack of clear markings / signing. Some roundabouts are now being removed and replaced with signalized intersections.

Canadian Report, Keith Boddy

TRB Roundabout Update for Canada 2015 Prepared by: Keith Boddy, P. Eng. Revised: 2015-07-21

Brief update on Canadian roundabout construction and ongoing efforts British Columbia has 7 roundabouts either being designed or waiting to be constructed, 1 of these is planned for construction in 2015. The Region of Waterloo in Ontario are planning to construct 6 multi-lane roundabouts including one with 3 lane entries in 2015. Then in 2016/2017 - 8 multi-lane roundabouts including one with 3 lane entries on all 4 legs of the roundabout. For the future, the Region has approx. 30 roundabouts in various levels of the planning stages. Prince Edward Island have 2 roundabouts planned for 2015, one of which will be a mini. Nova Scotia is planning to construct 2 more roundabouts in 2015, with many more being considered for future projects. New Brunswick is planning to install a few roundabouts in the coming years. The first is being constructed by the City of Fredericton, due to open this fall. Another project will see a roundabout constructed on the provincial system near Shediac in 2016. A count of Canadian roundabout installations is underway through the Transportation Association of Canada (TAC) Joint Roundabouts Sub-Committee. We have been using approximate numbers of 300-350 as our current estimated total installations. This project is volunteer lead and will attempt to exploit the use of a GIS database. The Canadian Roundabout Design Guide (CRDG) project, is now at the 90% draft stage publication is tentatively set for 2016.

Access Board Report, Melissa Anderson: The final text of the Public Right of Way Guidelines will be presented to the Board for approval at the July meeting. We are still working on updates to the regulatory assessment, which is taking longer than expected. We received many comments about pedestrian travel at roundabouts and to research into account in the development of the final guidelines. Given current activities, it is difficult to estimate a date when it will be published. Melissa Anderson

Roundabout Guide Subcommittee: Chair Lee Rodegerdts: Roundabout Guide Subcommittee: We have an initial draft of a research needs statement for the 3rd edition. It needs more refinement to incorporate comments I've already received and to fill in some gaps. I have drafted a couple of outside subcommittee members and need to know who else has signed up for this subcommittee. The goal is to have it ready for this October's submittal deadline.

Research: Lee Rodegerdts : NCHRP Project 03-110, Life-Cycle Cost Estimation for Intersection Designs: It is still in panel review but should be finalized this fall with publication early next year.

NCHRP Project 03-78b, Guidelines for Accommodation of Pedestrians with Vision Disabilities at Roundabouts and Channelized Turn Lanes: We are anticipating delivering a draft final report this fall. I will not be presenting this in a Tuesday session as originally planned.

FHWA TOPR 34, Accelerating Roundabout Implementation in the United States: Reports are being finalized, should be completed by end of September.