Simulation of Roundabouts to Advance Implementation

Event Description

Craig Parks, Boone County, Indiana, presiding

Sponsored by Standing Committee on Roundabouts (ANB75)

Modeling and Analysis of Multimodal Modern Roundabouts (17-03947)
BidouraKhondaker, University of Calgary
Lina Kattan, University of Calgary
Karan Arora, University of Calgary
Suman Mishra, University of Calgary
David Breu, ISL Engineering and Land Services Ltd.
Barkely Law, ISL Engineering and Land Services Ltd.

Effect of Calibration Process in Comparison of Simulated and Observed Rear-end Conflicts at Roundabouts (17-02598)
Alessandro Vitale, University of Calabria
Vincenzo Gallelli, University of Calabria
Giuseppe Guido, University of Calabria
Demetrio Carmine Festa, University of Calabria

Operational Evaluation of Two-Lane Roundabouts at Freeway Ramp Terminals (17-06219)
Zhixia Li, University of Louisville
MadhavChitturi, University of Wisconsin, Madison
Andrea Bill, University of Wisconsin, Madison
David Noyce, University of Wisconsin, Madison

Comparison of Driver Navigation at Turbo Roundabouts and Modern Two-Lane Roundabouts: A Simulation Study (17-03471)
Elisha Wankogere, Western Michigan University
Valerian Kwizigile, Western Michigan University
Jun-Seok Oh, Western Michigan University
Pavel Ikonomov, Western Michigan University
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399 (BKLS17-0026)

Data-Driven Approach to Advancing Roundabouts

Event Description

Scott Zehngraff, Georgia Department of Transportation, presiding

Sponsored by Standing Committee on Roundabouts (ANB75)

Investigation of Crosswalk Design and Driver Behaviors at Roundabouts (17-0025)
Daniel Findley, Institute for Transportation Research and Education
Sarah Searcy, North Carolina State University
Bastian Schroeder, Kittelson& Associates, Inc. (KAI)

Issues in the Planning and Management of Roundabouts in Cold, Snowy Regions (17-00960)
Kazunori Munehiro, Civil Engineering Research Institute for Cold Region
Tetsuya Takada,
Shingo Sato, Civil Engineering Research Institute for Cold Region
Satoshi Takamoto, Civil Engineering Research Institute for Cold Region
Tateki Ishida, Civil Engineering Research Institute for Cold Region

Evaluation of Pedestrian Crosswalk Spacing at Roundabouts Based on Shockwave Theory (17-01530)
Boon Teck ONG, Booz Allen Hamilton, Inc.
Milos Miadenovic, Aalto University
Steve LeBlanc, Johnson Mirmiran and Thompson

Feasibility of Using Truck Harsh Braking Incidents for Predicting All Vehicle Accidents at Roundabouts (17-02147)
JwanKamla, University of Nottingham
Andrew Dawson, University of Nottingham
Tony Parry, University of Nottingham
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804 (BKP17-0017)

Design, Operations, and Safety of Roundabouts

Event Description

Jerome Champa, California Department of Transportation (CALTRANS), presiding

Sponsored by Standing Committee on Roundabouts (ANB75)

Application of Random Parameter Model to Estimate Truck Accidents at Roundabouts (17-04458)
JwanKamla, University of Nottingham
Tony Parry, University of Nottingham
Andrew Dawson, University of Nottingham

Evaluation of Roundabout-Related Single-Vehicle Crashes (17-04508)
Beau Burdett,
Andrea Bill, University of Wisconsin, Madison
David Noyce, University of Wisconsin, Madison

Roundabout Deflection: Testing and Improving the Italian Standard (17-04960)
Nicola Berloco,
Pasquale Colonna, Polytechnic University of Bari
Paolo Intini,
Vittorio Ranieri, Polytechnic University of Bari

Modeling Queue Lengths at Roundabouts at Freeway Ramp Terminals (17-06665)
Zhixia Li, University of Louisville
MadhavChitturi, University of Wisconsin, Madison
Andrea Bill, University of Wisconsin, Madison
David Noyce, University of Wisconsin, Madison

Headway Acceptance Decisions on Single-Lane Roundabouts in Spain: Critical and Follow-Up Headway (17-06831)
Marilo Martin Gasulla, Universidad Politecnica de Madrid
Alfredo Garcia, UniversitatPolitecnica de Valencia
Carlos LLorca, Technical University of Munich
Public Involvement for Innovative Intersection Projects

Event Description

Projects such as roundabouts and other innovative intersection designs are providing challenges and opportunities for public involvement practitioners. Participants will have the opportunity to hear presentations on the public involvement lessons learned on roundabout and innovative intersection projects and then be involved in roundtable discussions to brainstorm ways to combine education with public engagement to ensure a smoother public meeting and ultimately a safer driving experience.

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

Roundabouts and Channelized Turn Lanes: Access for Pedestrians, Particularly Those with Vision Disabilities

Event Description

There have been many concerns about access to roundabouts and channelized turn lanes for pedestrians, particularly pedestrians with vision disabilities. This workshop reviews research
completed at roundabouts and channelized turn lanes and then walks participants through design procedures outlined in the guidebook developed by NCHRP Project 3-78b, Guidelines for the Application of Crossing Solutions at Roundabouts and Channelized Turn Lanes.

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, Kittelson& Associates, Inc. (KAI)

Overview of Design Process for Roundabouts and Channelized Turn Lanes (P17-21862)
Lee Rodegerdts, Kittelson& 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, Kittelson& Associates, Inc. (KAI)

Implications of Wayfinding and Crossing Assessments on Design Practices (P17-21866)
Lee Rodegerdts, Kittelson& Associates, Inc. (KAI)

Can Consideration of Human Factors Issues Solve Operational Problems at Roundabouts? (HF-E Ticket required)

Event Description
Roundabouts reduce fatalities and serious injuries, but some roundabouts experience operational problems or high crash numbers. Participants will review problem roundabouts and examine whether operational issues are related to human factors. Are human factors guidelines available or are new guidelines needed? The workshop goal includes citing available and needed research,
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which may also be used to inform potential future material for inclusion in the NCHRP Report Human Factors Guidelines for Road Systems.

Brian Walsh, Washington State Department of Transportation, presiding

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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.

(BKM17-0038)

Roundabouts Committee

Event Description

Eugene Russell, Kansas State University; Brian Walsh, Washington State Department of Transportation, presiding

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(BKG17-0004)

Roundabout Video Theatre

Event Description

Rachel Price, Reid Middleton, Inc., presiding

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