Joint Meeting of the AASHTO
Standing Committee on Environment
and Subcommittee on Design

AGENDA

July 16–20, 2017 | Marriott Des Moines Downtown
Day 1 | **Sunday, July 16**

1:00 p.m.–5:00 p.m.
**SCOD** Executive Committee Meeting—Cedar Rapids (3rd Floor)

5:00 p.m.–8:00 p.m.
**JOINT** Registration—3rd Floor Foyer

6:00 p.m.–8:00 p.m.
**JOINT** Conference Reception and Poster Session—Council Bluffs, Davenport, Dubuque (3rd Floor)

Light refreshments will accompany this poster session, with participants including: state DOTs (presentations to focus on either environmental, design, or topics of overlap), consultants, TRB, and universities.

Day 2 | **Monday, July 17**

7:00 a.m.–5:00 p.m.
**JOINT** Registration—2nd Floor Foyer

7:00 a.m.–8:00 a.m.
**JOINT** Breakfast—Des Moines Exhibit Hall (3rd Floor)

8:00 a.m.–9:00 a.m.
**JOINT** Opening Plenary—Iowa Salon Ballroom D (2nd Floor)

Welcome and Opening Remarks, Iowa DOT: Mitchell J. Dillavou, P.E., Highway Division Director
Opening Remarks: Bud Wright, Executive Director, AASHTO
Matt Garrett, Director, Oregon DOT
Carlos Braceras, P.E., Executive Director, Utah DOT

Each panelist will discuss emerging issues and opportunities for the future. A Q&A and discussion session will follow.

9:00 a.m.–10:15 a.m.
**JOINT** What’s Hot! State Update—Iowa Salon Ballroom D (2nd Floor)

Fifteen states have three minutes each to highlight challenges, innovations, and other exciting things happening in environmental management and project design. Attendees will be able to connect with presenters afterwards on topics of shared interest.

**Moderators:** Kristin Schuster | Michigan DOT
Tim Sexton | Minnesota DOT

10:15 a.m.–10:45 a.m.
**JOINT** Break—2nd Floor Foyer

10:45 a.m.–Noon
**SCOE** SCOE Welcome Meeting—Iowa Salon Ballroom D (2nd Floor)
Chair: Matt Garrett | Oregon DOT

**Welcome and Introductions:** Matt Garrett | Oregon DOT
**FHWA Update:** Emily Biondi | FHWA
**AASHTO Update:** Shannon Eggleston | AASHTO
**SCOE Organizational Changes:** Tim Hill | Ohio DOT

**SCOD** General Session—Iowa Salon Ballroom E (2nd Floor)
Chair: Carlos Braceras | Utah DOT

**Welcome and Introductions:** Carlos Braceras | Utah DOT
**FHWA Update:** Robert Mooney | FHWA
**SCOD Awards:** Joyce Taylor | Maine DOT
**Technical Service Program for Design Publications Maintenance:** Patricia Bush | AASHTO

**TCHH** Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT
Noon–1:00 p.m.

**JOINT Lunch**—Des Moines Exhibit Hall (3rd Floor)

1:00 p.m.–2:45 p.m.

**JOINT**

**Concurrent Session 1a: Why Did the Person Cross the Road?**—Iowa Salon Ballroom ABC (2nd Floor)

This session will simulate a community level design charrette that might be conducted during the early development of a complete streets project. The meeting attendees will explore the principles of complete streets and their implementation in varying contexts by working through blank-slate exercises on case study corridors.

*Moderator: Jeff Carpenter | Washington State DOT*

*Presenters/Facilitators:* Michael Trepanier | Massachusetts DOT  
Susan Nichols | Massachusetts DOT  
Paul Hiers | Florida DOT  
David Larson | Minnesota DOT

**Concurrent Session 1b: Infrastructure Resilience**—Iowa Salon Ballroom E (2nd Floor)

Extreme weather events that cause significant damage to transportation infrastructure are becoming more severe and common in the United States. During this session we will hear from presenters on what they do to meet these challenges.

*Moderator: Tammy Nicholson | Iowa DOT*

*Transportation System Vulnerability in Ohio:* Matt Perlik | Ohio DOT  
*Collaborating with the Netherlands on Climate Resiliency Tools:* Carol Lee Roalkvam | Washington State DOT  
*Progression from Assessment to Action:* Brenda Powell-Jones | Caltrans  
*Sustainable Drainage Design Strategies in Coastal Regions:* Carl Spirio | Florida DOT  
*Electric Vehicle Infrastructure Enabling Resiliency:* Stephanie Weisenbach | Iowa Economic Development Authority  
*Incorporating Resiliency for Existing Infrastructure in Iowa:* Dave Claman | Iowa DOT

**Concurrent Session 1c: Mapping for the Future**—Iowa Salon Ballroom D (2nd Floor)

This session will focus on the latest mapping tools being used by the states. Discussion topics include: the states’ use of drones for mapping, graphics, traffic monitoring and construction inspections as well as other remote sensing tools being used for various environmental studies.

*Moderators: Brad Hofer | Iowa DOT  
Melissa Batula | Pennsylvania DOT*

*Revamping Public Outreach through Story Maps:* Siobhan Gordon | South Carolina DOT  
*MaPIT—MassDOT’s GIS-driven Project Initiation and Environmental Screening Tool:* Michael Bolduc | Massachusetts DOT  
*Coordinating Maintenance and Capital Program:* Melissa Batula | Pennsylvania DOT  
*Environmental Assessment Utilizing Remote Sensed Data:* Steve Zeets | Terraplane and Brian Geldner | Iowa State University

**TCHH**  
**Technical Committee on Hydrology & Hydraulics**—Concurrent Sessions (1a–1c)

**TCNMT**  
**Technical Committee on Non-Motorized Transportation**—Concurrent Sessions (1a–1c)
2:45 p.m.–3:15 p.m.

**JOINT**  Break—2nd Floor Foyer

3:15 p.m.–5:00 p.m.

**JOINT**  Concurrent Session 2a: Flexible Design and NEPA—Iowa Salon Ballroom D (2nd Floor)

This session will focus on several states’ implementation of flexible design approaches and a discussion of lessons learned, pros/cons. Discussions will review what changes were required to make these flexible design elements successful, cautions states should be aware of, and how states can make this process efficient, both from the design and the environmental perspective.

*Moderators: Bart Thrasher | Virginia DOT
Gayle Unruh | Missouri DOT*

Building a Practical Solutions Culture at CDOT: Ryan Sorensen | Colorado DOT
Performance-Based Project Development at ODOT: Dave Holstein | Ohio DOT
Complete Streets and Context-Based Design: Paul Hiers | Florida DOT
Design Build and NEPA: Stacey Smith | Missouri DOT
Kentucky SHIFTS: Brad Eldridge and David Waldner | Kentucky DOT

**Concurrent Session 2b: It’s Just Water...—Iowa Salon Ballroom ABC (2nd Floor)**

This session will consist of a variety of water resource-related topics, including design and regulatory aspects of fish passage; current FHWA activities in floodplains, hydrology and hydraulics; and innovative approaches to wastewater treatment and testing the effectiveness and longevity of stormwater BMPs.

*Moderator: Ken Stone | Washington State DOT*

Blood, Sweat, and Tiers—Four Years, Three Agencies, Two Funding Sources, and One Endangered Fish
Change the World: Judy Gates | Maine DOT
Fish Passage Design Issues for Climate Resilience and Vulnerability: Julie Heilman | Washington State DOT
Current Topics in FHWA Floodplain, Hydrology, and Hydraulics Activities: Kornel Kerenyi | FHWA
Oregon’s Stormwater Technology Testing Center: Ken Stone | Washington State DOT
Solar Distillation for Treatment and Reuse of Greywater Generated from Vehicle Washing and Plow Melt Water: Theresa Santangelo | Colorado DOT; Mike Lindstrom | Tasman Geosciences; and Tom Joseph | Epiphany Environmental

**Concurrent Session 2c: Safety and Design—Iowa Salon Ballroom E (2nd Floor)**

This panel will discuss the relationship between design standards, safety, and how they interact with the final design of a transportation facility.

*Moderators: Siv Sundaram | Oklahoma DOT
James Combs | Montana DOT*

Roadway Lighting—LED Lighting Concerns Related to the AMA Statement
Environmental: Dr. Ronald Gibbons | Virginia Tech
Design: Paul Lutkevich, P.E. | Parsons Brinckerhoff

Design Exceptions—Emphasis on the Decision Process When Weighing Impacts to Environmental or Context Sensitive Features
Environmental: Tim Hill | Ohio DOT
Design: James A. Combs | Montana DOT

**TCHH**  Technical Committee on Hydrology & Hydraulics—Concurrent Sessions (2a–2c)

**TCNMT**  Technical Committee on Non-Motorized Transportation—Concurrent Sessions (2a–2c)

**Dinner on your own**

7:08 pm (Optional)

**JOINT**  Night At the Ball Park—Principal Park, 1 Line Drive, Des Moines, IA

For those wishing to walk, guides will depart from hotel at 6:30 p.m. and 6:40 p.m. Advance ticket purchase required.
We connect expertise across services and markets to deliver transformative outcomes. We design, build, finance, operate and manage projects and programs that unlock opportunities and connect people and economies. At AECOM, our transportation experts are meeting today’s demands and laying the foundation for tomorrow’s needs.
Day 3 | Tuesday, July 18

7:00 a.m.–5:00 p.m.
**JOINT**  Registration —2nd Floor Foyer

7:00 a.m.–8:00 a.m.
**JOINT**  Breakfast —Des Moines Exhibit Hall (3rd Floor)

8:00 a.m.–9:30 a.m.
**JOINT**  Plenary on Project Management —Iowa Salon Ballroom D (2nd Floor)
This session will detail how states are working to ensure both environmental and design considerations are acted on throughout the project development processes.
Moderators: Siobhan Gordon | South Carolina DOT
FDOT Statewide Acceleration Transformation (SWAT): Marjorie Kirby and Paul Hiers | Florida DOT
AASHTOWare Project—What It Can Do for Your Agency: Jim Johnson | AASHTOWare
Risk Management for Project Development—The Pennsylvania Approach: Brian E. Shunk | Pennsylvania DOT

**TCHH**  Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT

**TCNMT**  Technical Committee on Non-Motorized Transportation—Council Bluffs (3rd Floor)
Chair: Ken Brubaker | Colorado DOT

**TCED**  Technical Committee on Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans | Indiana DOT

**PM/APD**  Technical Committees on Project Management and Alternative Project Delivery—Plenary Session

9:30 a.m.–10:00 a.m.
**JOINT**  Break—2nd Floor Foyer

10:00 a.m.–Noon
**JOINT**  Discussion on Priority Issues
10:00 a.m.–10:15 a.m.
Opening Remarks and Instructions —Iowa Salon Ballroom D (2nd Floor)

Session 1 Discussions
Topic #1: Technology in Design and Environmental: New Uses for Technology and Design Tools to Speed Up Project Development—Iowa Salon Ballroom FGH (2nd Floor)
Topic #2: Project Development and Management: Merging Design and Environmental Information—Iowa Salon Ballroom E (2nd Floor)
Topic #3: Flexible Design—Des Moines Exhibit Hall (3rd Floor)
Topic #4: Design and Environmental Streamlining—Iowa Salon Ballroom ABC (2nd Floor)

11:00 a.m.–11:45 a.m.
**Session 2 Discussions**
Topic #1: Technology in Design and Environmental: New Uses for Technology and Design Tools to Speed Up Project Development—Iowa Salon Ballroom FGH (2nd Floor)
Topic #2: Project Development and Management: Merging Design and Environmental Information—Iowa Salon Ballroom E (2nd Floor)
Topic #3: Flexible Design—Des Moines Exhibit Hall (3rd Floor)
Topic #4: Design and Environmental Streamlining—Iowa Salon Ballroom ABC (2nd Floor)
OpenRoads CONNECT Edition introduces a comprehensive modeling environment for the delivery of roadway projects, streamlining and automating workflows across all disciplines to progress designs from conception to detailed design and through construction. The successor to Bentley’s industry leading civil engineering brands InRoads, GEOPAK, MX, and PowerCivil, OpenRoads CONNECT Edition builds on Bentley’s three decades of empowering engineers in their work on thousands of the most innovative and inspiring roadway projects around the world.

*OpenRoads CONNECT Edition, the next generation of roadway design software.*

To learn more, visit: [www.bentley.com/OpenRoads](http://www.bentley.com/OpenRoads)

© 2017 Bentley Systems, Incorporated. Bentley, the “B” Bentley logo, CONNECT Edition, GEOPAK, InRoads, MX, PowerCivil, and OpenRoads are either registered or unregistered trademarks or service marks of Bentley Systems, Incorporated or one of its direct or indirect wholly owned subsidiaries. Other brands and product names are trademarks of their respective owners. 07/17
10:00 a.m.–Noon

**TCHH**  Joint Meeting of Natural Resources Subcommittee and Technical Committee on Hydraulics & Hydrology—Dubuque (3rd Floor)

**TCNMT**  Technical Committee on Non-Motorized Transportation—Council Bluffs (3rd Floor)
Chair: Ken Brubaker  |  Colorado DOT

**TCED**  Technical Committee on Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans  |  Indiana DOT

**PM/APD**  Technical Committees on Project Management and Alternative Project Delivery—Davenport (3rd Floor)
Chairs: Rob Cary  |  Virginia DOT
Chris Roy  |  Minnesota DOT

Noon–1:00 p.m.

**JOINT**  Lunch—Des Moines Exhibit Hall (3rd Floor)

1:00 p.m.– 5:00 p.m.

**JOINT**  Iowa DOT Tours
All tours depart from the hotel lobby. Pre-registration is required. Please arrive promptly for an on-time departure.
The Living History Farms (LHF) Tour
Virtual Reality Lab Tour
Automated Vehicle Demonstration

**TCHH**  Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark  |  Vermont AOT

**TCNMT**  Technical Committee on Non-Motorized Transportation—Council Bluffs (3rd Floor)
Chair: Ken Brubaker  |  Colorado DOT

**TCED**  Technical Committee on Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans  |  Indiana DOT

**PM/APD**  Technical Committees on Project Management and Alternative Project Delivery—Davenport (3rd Floor)
Chairs: Rob Cary  |  Virginia DOT
Chris Roy  |  Minnesota DOT

6:00 p.m.–8:00 p.m.

**JOINT**  Host State Reception—The Iowa Taproom, 215 E 3rd St #100, Des Moines, Iowa
Buses will begin departing from the hotel lobby at 5:45 p.m. If you wish to walk the Taproom is a short 17-minute walk from the hotel. Walking directions will be provided. Return bus service from the event will begin at 7:30 p.m.

Day 4  |  **Wednesday, July 19**

7:00 a.m.–5:00 p.m.

**JOINT**  Registration—2nd Floor Foyer

7:00 a.m.–8:00 a.m.

**FHWA**  Environmental Excellence Awards Breakfast—Des Moines Exhibit Hall (3rd Floor)
**SCOD**  Orientation Breakfast—Windows on 7th (Lobby Level)

8:00 a.m.–9:45 a.m.

**SCO**  A: Natural Resources Subcommittee Meeting—Iowa Salon Ballroom ABC (2nd Floor)
Chair: Jane Hann  |  Colorado DOT
Vice Chair: Kris Gade  |  Arizona DOT

B: Community and Cultural Concerns Subcommittee Meeting—Iowa Salon Ballroom D (2nd Floor)
Chair: Gail D’Avino  |  Georgia DOT
Vice Chair: Carolyn Holthoff  |  Oregon DOT
Let’s Connect

We’re connecting in ways you wouldn’t have imagined to bring new ideas to life.

Connect with us today and join CH2M to make a difference in your life.

Visit www.ch2m.com/careers
**SCOE**  General Session—Iowa Salon Ballroom E (2nd Floor)
Vice-Chair: Joyce Taylor | Maine DOT
Green Book Update: Doug Harwood | MRI Global and Jim Rosenow | Minnesota DOT
PennDOT’s Single Platform Approach to Design, Pre-Bid, and Construction Scheduling: Melissa Batula | Pennsylvania DOT
MASH Update: Joyce Taylor | Maine DOT and Chris Poole | Iowa DOT

**TCHH** Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT

**TCNMT** Technical Committee on Non-Motorized Transportation—Council Bluffs (3rd Floor)
Chair: Ken Brubaker | Colorado DOT

**TCED** Technical Committee On Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans | Indiana DOT

9:45 a.m.–10:15 a.m.

**JOINT** Break—2nd Floor Foyer

10:15 a.m.–Noon

**SCOE**  A: Natural Resources Subcommittee Meeting—Iowa Salon Ballroom ABC (2nd Floor)
Chair: Jane Hann | Colorado DOT
Vice Chair: Kris Gade | Arizona DOT
B: Community and Cultural Concerns Subcommittee Meeting—Iowa Salon Ballroom D (2nd Floor)
Chair: Gail D’Avino | Georgia DOT
Vice Chair: Carolyn Holthoff | Oregon DOT

**SCOD**  Regional Meetings
Region 1 Chair: Brad Foley | Maine DOT—Davenport (3rd Floor)
Region 2 Chair: William Adams | Alabama DOT—Iowa Salon Ballroom G (2nd Floor)
Region 3 Chair: Chris Roy | Minnesota DOT—Iowa Salon Ballroom H (2nd Floor)
Region 4 Chair: Tim Tegeler | Oklahoma DOT—Iowa Salon Ballroom F (2nd Floor)

**TCHH** Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT

**TCNMT** Technical Committee on Non-Motorized Transportation—Council Bluffs (3rd Floor)
Chair: Ken Brubaker | Colorado DOT

**TCED** Technical Committee On Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans | Indiana DOT

Noon–1:30 p.m.

**JOINT** Lunch—Des Moines Exhibit Hall (3rd Floor)
AASTHO Committee Re-Organization: Jim Tymon | Chief Operating Officer of AASHTO

1:30 p.m.–3:00 p.m.

**SCOE**  Environmental Process Subcommittee Meeting—Iowa Salon Ballroom D (2nd Floor)
Chair: Carol Lee Roalkvam | Washington DOT
Vice Chair: Darlene Weaver | Oregon DOT

**SCOD**  Regional Meetings
Region 1 Chair: Brad Foley | Maine DOT—Davenport (3rd Floor)
Region 2 Chair: William Adams | Alabama DOT—Iowa Salon Ballroom G (2nd Floor)
Region 3 Chair: Chris Roy | Minnesota DOT—Iowa Salon Ballroom H (2nd Floor)
Region 4 Chair: Tim Tegeler | Oklahoma DOT—Iowa Salon Ballroom F (2nd Floor)
PROVIDING INFRASTRUCTURE SOLUTIONS TO DOTs

Ananth Prasad
National Transportation Leader
aprasad@hntb.com

The HNTB Companies
Infrastructure Solutions
hntb.com
**SCOE & SCOD**

**MEETING AGENDA**

13

**TCHH**  
Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)  
Chair: Nick Wark | Vermont AOT

**TCED**  
Technical Committee On Environmental Design—Sioux City (3rd Floor)  
Chair: Louis Feagans | Indiana DOT

3:00 p.m.–3:30 p.m.  
**JOINT**  
Break—2nd Floor Foyer

3:30 p.m.–5:00 p.m.  
**SCOE**  
Environmental Process Subcommittee Meeting—Iowa Salon Ballroom D (2nd Floor)  
Chair: Carol Lee Roalkvam | Washington DOT  
Vice-Chair: Darlene Weaver | Oregon DOT

**SCOD**  
General Session—Iowa Salon Ballroom E (2nd Floor)  
Vice-Chair: Joyce Taylor | Maine DOT

NCHRP 15-50—Guidelines for Integrating Safety and Cost-Effectiveness into Resurfacing, Restoration, and Rehabilitation Projects: Doug Harwood | MRI Global

Technical Committee Updates  
Electronic Engineering Data: Mike Kennerly | Iowa DOT  
Alternative Project Delivery: Chris Roy | Minnesota DOT  
Pavements: Chris Brakke | Iowa DOT  
Roadway Lighting: Patricia Bush | AASHTO  
Roadside Safety: Chris Poole | Iowa DOT

MASH Discussion: Joyce Taylor | Maine DOT and Chris Poole | Iowa DOT

**TCHH**  
Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)  
Chair: Nick Wark | Vermont AOT

**TCED**  
Technical Committee On Environmental Design—Sioux City (3rd Floor)  
Chair: Louis Feagans | Indiana DOT

**DINNER ON YOUR OWN**

7:30 p.m. (Optional)  
**JOINT** Night at the Theater | An American in Paris—Des Moines Civic Center, 221 Walnut St., Des Moines, Iowa  
Walking directions will be provided. See registration staff for more information.

---

**Day 5 | Thursday, July 20**

7:00 a.m.–1:00 p.m.  
**JOINT** Registration—2nd Floor Foyer

7:00 a.m.–8:00 a.m.  
**JOINT** Breakfast—Des Moines Exhibit Hall (3rd Floor)

8:00 a.m.–9:45 a.m.  
**JOINT** Concurrent Session 3a: Putting the Buildability into Your Projects—Iowa Salon Ballroom FGH (2nd Floor)  
This session will focus on constructability and environmental considerations. States will share how they determine their construction footprint, and how to design projects with the final building process in mind.  
Moderator: Andy Casey | Georgia

Bridging the Gap in Arizona—Clearly Communicating Environmental Commitments from Design to Construction: Kris Gade | Arizona DOT

Developing and Delivering a Context Sensitive Solution in a Mountain Environment: David Singer | Colorado DOT

Ohio’s Constructability Process: Tim Hill | Ohio DOT

Identifying Environmental Commitments and Tracking During Construction: Angel Deem | Virginia DOT
We engineered some of our nation’s tallest buildings and designed highways from coast to coast.

Our expertise lies at the intersection of the infrastructure and the skylines we have helped to shape.

Partner with us to deliver the highways of tomorrow.

We are WSP USA.

Find out what we can do for you.

wsp.com/usa

For career opportunities, visit wsp.com/usacareers
Concurrent Session 3b: Designing for the Community—Iowa Salon Ballroom E (2nd Floor)
This session will focus on innovative ways states and other agencies are working to enhance community engagement during planning, design, and construction of projects from small to large.

Moderators: Melanie Army | Rhode Island DOT
              Angela Smith | Maryland SHA

PennDOT Connects: Mark Lombard | Pennsylvania DOT

Trends in the Human Environment—Streamlining and Stewardship: Shari Schaftlein | FHWA

Community Mitigation and Stewardship aspects associated with the Intercounty Connector:
Robert E. Shreeve | Maryland SHA

Accelerated Community and Agency Involvement for the Hampton Roads Crossing Study SEIS:
Angel Deem | Virginia DOT and Eric Almquist | RK&K

TCHH Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT

TCED Technical Committee on Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans | Indiana DOT

9:45 a.m.–10:15 a.m.
JOINT Break—2nd Floor Foyer

10:15 a.m.–Noon
JOINT Joint Closing Session—Des Moines Exhibit Hall (3rd floor)
During this working session, participants will come together to form interdisciplinary task teams centered on topics of mutual interest to SCOD, Technical Committees, and SCOE. These teams will work together to develop action agendas to lay the groundwork for continued partnership on these topics.

TCHH Technical Committee on Hydrology & Hydraulics—Dubuque (3rd Floor)
Chair: Nick Wark | Vermont AOT

TCED Technical Committee on Environmental Design—Sioux City (3rd Floor)
Chair: Louis Feagans | Indiana DOT

Noon–1:00 p.m.
JOINT Lunch—Des Moines Exhibit Hall (3rd Floor)

1:00 p.m.–3:00 p.m.
SCOE Business Meeting—Iowa Salon Ballroom E (2nd Floor)
Vice Chair: Tim Hill | Ohio DOT

Review of General Purpose Statements: Shannon Eggleston | AASHTO

FHWA Updates: Emily Biondi and Felicia James | FHWA

Subcommittee Report-Outs & Future of SCOE: Tim Hill | Ohio DOT

Center for Environmental Excellence Update: Melissa Savage, Bryan Hong | AASHTO

AASHTO ETAP Update: Samantha Hoillett | AASHTO

SCOD Business Meeting—Iowa Salon Ballroom ABCD (2nd Floor)
Vice-Chair: Joyce Taylor | Maine DOT

Roll Call: Robert Mooney | FHWA

SCOD Awards: Joyce Taylor | Maine DOT

TRB Update: Ray Derr | TRB

Regional Committee Reports
Resolutions and Other Business

3:00 p.m. Adjourn
Technical Committee on Non-Motorized Transportation Agenda
July 17–19, 2017 | Des Moines, Iowa

Monday, July 17, 2017
1:00 p.m. Open Remarks & Roll Call
1:15 p.m. SCOD/SCOE Concurrent session 1a: Why Did the Person Cross the Road
   This session will simulate a community-level design charrette that might be conducted during the early development of
   a complete streets project. The meeting attendees will explore the principles of complete streets and their implementa-
   tion in varying contexts by working through blank-slate exercises on case study corridors.
2:45 p.m. Break
3:15 p.m. SCOD/SCOE Concurrent session 2c: Safety and Design
   This session will discuss the relationship between design standards, safety, and how they interact with the final design
   of a transportation facility.
5:00 p.m. End of Day

Tuesday, July 18, 2017
8:00 a.m. AASHTO Update
         Project Updates | Ray Derr, TRB
9:15 a.m. Break
10:00 a.m. Des Moines-Area MPO Data Bike | Marcus Coenen, Des Moines Area MPO
Noon Lunch
1:00 p.m. FHWA Update | Dan Goodman, FHWA
   Session will include updates on multi-modal network publications
2:00 p.m. TRB Bicycle and Pedestrian Research Subcommittees Presentation
3:00 p.m. Break
3:30 p.m. Des Moines Bicycle Collective | Jeremy Lewis, Executive Director
5:00 p.m. Adjournment

Wednesday, July 19, 2017
8:00 a.m. PROWAG Update | Scott Windley, Access Board
8:30 a.m. Project Reports
   • 15-48, Guidelines for Designing Low- and Intermediate-Speed Roadways that Serve All Users
     Marshall Elizer, Gresham, Smith, & Partners
   • 15-52, Developing a Context-Sensitive Functional Classification System for More Flexibility in Geometric Design
     Nick Stamatiadis, University of Kentucky (TBC)
   • 17-56, Development of Crash Modification Factors for Uncontrolled Pedestrian Crossing Treatments
     Charlie Zegeer, UNC
9:45 a.m. Break (After break agenda may vary)
10:15 a.m. NCHRP 15-60 Update of the AASHTO Guide for the Development of Bicycle Facilities
         Bill Schultheiss, Toole Design
SCOD Regional Meetings | Optional
Noon Lunch
1:00 p.m. Closing remarks and adjournment
Technical Committee on Hydrology and Hydraulics Agenda
July 17–20, 2017 | Des Moines, Iowa

Monday July 17, 2017
8:00 a.m. Joint Session with SCOD and SCOE
10:15 a.m. Break
10:45 a.m. Closed Session
   • Welcome—Introductions—New Members
   • Membership and Recognition of Service
   • Past Meeting Minutes
   • Financial Report
   • AASHTO Update—SCOD Update—Next meeting location and dates
   • Future Meetings—NHEC

Noon Lunch
1:00 p.m. SCOD Concurrent Session 1b: Infrastructure Resilience
2:45 p.m. Break
3:15 p.m. SCOD Concurrent Session 2b: It’s Just Water
5:00 p.m. Adjournment

Tuesday July 18, 2017
8:00 a.m. TCHH Mission Statement
9:30 a.m. Joint Meeting with SCOE Natural Resources Subcommittee
Noon Lunch
1:00 p.m. TCHH Work Plan
   • Research Plan | • Group Photo
2:30 p.m. Break
2:45 p.m. Workgroup Updates
   • LRFD | • Bridge Chapter 17 | • Exchange | • Climate Change | • Water Quality
   • Newsletter | • NHEC | • Research | • Coastal
5:00 p.m. Adjournment

Wednesday July 19, 2017
8:00 a.m. TCHH Research
9:45 a.m. Break
10:15 a.m. Closed Session: Concerns of the States
Noon Lunch
1:00 p.m. FHWA Update
   • General | • Climate | • Research | • EDC-4 – CHANGE
   NCHRP Update
3:00 p.m. Break
3:30 p.m. Continued Research Discussion
5:00 p.m. Adjournment

Thursday July 20, 2017
8:00 a.m. State Presentations
9:30 a.m. Break
10:15 a.m. Wrap Up
Noon Adjourn
AASHTO would like to thank all of the SCOD/SCOE Meeting Sponsors!
<table>
<thead>
<tr>
<th>SESSION</th>
<th>PDH</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MONDAY, JULY 17, 2017</strong></td>
<td></td>
</tr>
<tr>
<td>Opening Plenary (8:00 a.m.–9:00 a.m.)</td>
<td>1.0</td>
</tr>
<tr>
<td>What’s Hot! State Update (9:00 a.m.–10:15 a.m.)</td>
<td>1.25</td>
</tr>
<tr>
<td>SCOD General Session (10:45 a.m.–Noon)</td>
<td>1.25</td>
</tr>
<tr>
<td>Technical Committee on Hydrology &amp; Hydraulics (10:45 a.m.–Noon)</td>
<td>1.25</td>
</tr>
<tr>
<td>Concurrent Session 1a: Why Did the Person Cross the Road? (1:00 p.m.–2:45 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 1b: Infrastructure Resilience (1:00 p.m.–2:45 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 1c: Mapping for the Future (1:00 p.m.–2:45 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 2a: Flexible Design and NEPA (3:15 p.m.–5:00 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 2b: It’s Just Water... (3:15 p.m.–5:00 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 2c: Safety and Design (3:15 p.m.–5:00 p.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td><strong>TUESDAY, JULY 18, 2017</strong></td>
<td></td>
</tr>
<tr>
<td>Plenary on Project Management (8:00 a.m.–9:30 a.m.)</td>
<td>1.5</td>
</tr>
<tr>
<td>Technical Committee on Hydrology &amp; Hydraulics (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Non-Motorized Transportation (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Discussion on Priority Issues (10:00 a.m.–Noon)</td>
<td>2.0</td>
</tr>
<tr>
<td>Technical Committee on Project Management (10:00 a.m.–Noon)</td>
<td>2.0</td>
</tr>
<tr>
<td>Technical Committee on Hydrology &amp; Hydraulics (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Non-Motorized Transportation (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Project Management (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td><strong>WEDNESDAY, JULY 19, 2017</strong></td>
<td></td>
</tr>
<tr>
<td>General Session (8:00 a.m.–9:45 a.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Technical Committee on Non-Motorized Transportation (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Hydrology and Hydraulics (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Region 1 Meeting (10:15 a.m.–Noon)</td>
<td>1.75</td>
</tr>
<tr>
<td>Region 2 Meeting (10:15 a.m.–Noon)</td>
<td>1.75</td>
</tr>
<tr>
<td>Region 3 Meeting (10:15 a.m.–Noon)</td>
<td>1.75</td>
</tr>
<tr>
<td>Region 4 Meeting (10:15 a.m.–Noon)</td>
<td>1.75</td>
</tr>
<tr>
<td>Technical Committee on Hydrology and Hydraulics (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (1:00 p.m.–5:00 p.m.)</td>
<td>3.5</td>
</tr>
<tr>
<td>Region 1 Meeting (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>Region 2 Meeting (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>Region 3 Meeting (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>Region 4 Meeting (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>SCOD General Session (3:30 p.m.–5:00 p.m.)</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>THURSDAY, JULY 20, 2017</strong></td>
<td></td>
</tr>
<tr>
<td>Concurrent Session 3a: Putting the Buildability into Your Projects (8:00 a.m.–9:45 a.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Concurrent Session 3b: Designing for the Community (8:00 a.m.–9:45 a.m.)</td>
<td>1.75</td>
</tr>
<tr>
<td>Technical Committee on Hydrology and Hydraulics (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (8:00 a.m.–Noon)</td>
<td>3.5</td>
</tr>
<tr>
<td>Joint Closing Session (10:15 a.m.–Noon)</td>
<td>1.75</td>
</tr>
<tr>
<td>SCOD Business Meeting (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>Technical Committee on Hydrology and Hydraulics (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>Technical Committee on Environmental Design (1:00 p.m.–3:00 p.m.)</td>
<td>2.0</td>
</tr>
<tr>
<td>**TOTAL</td>
<td>38.25 MAX**</td>
</tr>
</tbody>
</table>
DESIGN AND MAKE THE TRANSPORTATION SYSTEMS OF THE FUTURE

Point cloud processing
Traffic & mobility simulation
Transportation planning
eConstruction

Learn more at autodesk.com/roadsandhighways
One hundred and HDR. A century of pushing the boundaries of what’s possible. A legacy of bringing innovative solutions to every project—no matter the challenge. A future of collaborating and creating the only way we know how. Together.
HR Green’s services in Design, Construction, Location Studies and NEPA can help you navigate the latest in industry policies and innovations.

Visit our booth to learn more about our transportation services.
Combining technology and innovation to be your trusted transportation services provider.

INFRASSTRUCTURE
ENVIRONMENTAL
FIELD SERVICES
FACILITIES

olssonassociates.com
Foth is proud to be a sponsor of the 2017 AASHTO SCOE and SCOD Joint Meeting

Foth is committed to being your trusted resource for all of your infrastructure engineering needs. We strive to improve safety and quality of life, keep products on the move, and help communities develop critical public services. We look forward to sharing how Foth is leveraging emerging technologies such as virtual reality in the planning, design, and construction of projects to help our clients solve challenges.
SPECIAL PUBLICATIONS DISCOUNT FOR MEETING ATTENDEES!

Save 20% on AASHTO Publications when you order online at the AASHTO Bookstore

https://bookstore.transportation.org

by August 31, 2017, and enter this promo code at checkout:

7Q72–7R5N–VLC5–PYE9
2018 SCOD MEETING

JUNE 10–14, 2018

FRANKLIN MARRIOTT COOL SPRINGS
Franklin, Tennessee