



AASHTO

COMMITTEE ON BRIDGES AND STRUCTURES
2019 MONTGOMERY, ALABAMA

June 24-27, 2019

Hosted by

AASHTO





June 23, 2019

On behalf of the Alabama Department of Transportation, welcome to Montgomery for the 2019 Annual Meeting of the AASHTO Committee on Bridges and Structures. It is a pleasure to have you here in the Yellowhammer State where we are celebrating 200 years of statehood. We hope that you will enjoy your stay here!

The agenda items and other program content will cover topics impacting public and private interests nationally and internationally as well. The work you do here will continue to improve and enhance the specifications and guidelines to produce bridge and transportation structure designs that are efficient, economical and safe.

Located in central Alabama at the intersection of Interstate 65 and Interstate 85, Montgomery is rich in Southern tradition, hospitality, and vast economic diversity, yet it's a modern city on the forefront of innovation. It's the state capital and second largest city in Alabama and birthplace of two world-changing events: the Civil War and the Civil Rights Movement. Montgomery is home to Maxwell Air Force Base and the Air University—the intellectual and leadership center of the Air Force, the region's first high-speed internet exchange, and an extensive industrial base that includes Hyundai Motor Manufacturing Alabama—Hyundai's first manufacturing plant in the United States. It's got almost two centuries of tales to tell, and it's jam-packed with culture, entertainment, and activity options for all interests. Take time to tour Montgomery and see its many faces for yourself by enjoying our attractions, exploring our history, and meeting our friendly people.

We look forward to a productive and beneficial meeting and hope that you visit Alabama again soon.

Sincerely,

Tim Colquett, P.E.

State Bridge Engineer

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Annual Meeting Hosts

1998 ... Nashville, Tennessee
1999 ... San Diego, California
2000 ... Charleston, South Carolina
2001 ... Seattle, Washington
2002 ... Atlantic City, New Jersey
2003 ... Albuquerque, New Mexico
2004 ... Orlando, Florida
2005 ... Newport, Rhode Island
2006 ... Snowbird, Utah
2007 ... Wilmington, Delaware
2008 ... Omaha, Nebraska
2009 ... New Orleans, Louisiana
2010 ... Sacramento, California

2011 ... Norfolk, Virginia
2012 ... Austin, Texas
2013 ... Portland, Oregon
2014 ... Columbus, Ohio
2015 ... Saratoga Springs, New York
2016 ... Minneapolis, Minnesota
2017 ... Spokane, Washington
2018 ... Burlington, Vermont

2019 ... *Montgomery, Alabama*

2020 ... Branson, Missouri
2021 ... Indiana
2022 ... Pennsylvania



AASHTO

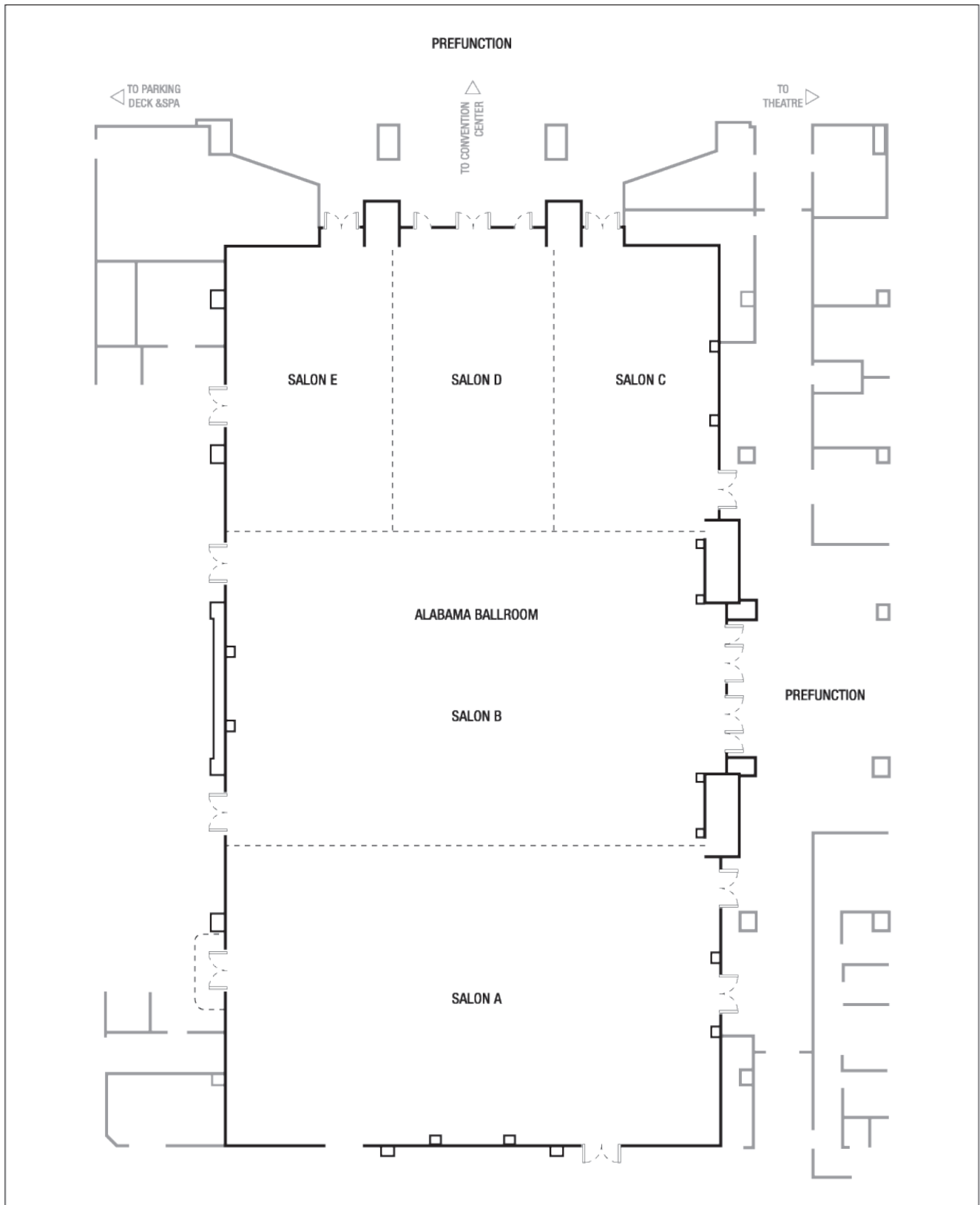
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- Rate bridge superstructures in accordance with the AASHTO Manual for Bridge Evaluation, AASHTO Standard Specifications for Highway Bridges, and AASHTO LRFD Bridge Design Specifications.
- Enter data once for design and rating (One stop shop)
- Design and rate superstructures types that represent 95% of the current US bridge inventory (steel girders, prestressed concrete, concrete multi-cell box girders (RC and PT), RC beams and slabs, concrete culverts and frames, trusses, etc.)

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Hotel Floor Plan



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General Information



Registration/Information Hours

The registration/information desk is located on the 1st floor and is available on the days and times listed below. Lost and found will be located at the registration/information desk.

- **Sunday: 12:00 p.m.–6:00 p.m.**
- **Monday: 7:00 a.m.–5:00 p.m.**
- **Tuesday: 7:00 a.m.–5:00 p.m.**
- **Wednesday: 7:00 a.m.– 5:00 p.m.**
- **Thursday: 7:00 a.m.–5:00 p.m.**



Name Badge and Meeting/Event Admission

All registered attendees and guests are required to wear their name badge to gain entry into all meetings and events, including meals, breaks, registered guest activities, the ice breaker, and the host night event. Badges will be scanned at all sessions as well as traditional sign in sheets.



Breaks and Meals

All meals are provided for attendees and registered guests as indicated in the schedule of events. Attendees and their guests must be registered to attend the breakfasts, breaks, and lunches. Morning and afternoon breaks will be held in the Alabama Ballroom Foyer on the 1st floor. Breakfast and lunch will be held in the Exhibit Hall B.



Cell Phones

Please silence or turn off all electronics during the meetings and events, as a courtesy to others.



Wi-Fi

Network Name: Renaissance_Conference

Password: BRIDGES (not case sensitive)

INSTRUCTIONS:

1. Open a web browser
2. Enter the passcode
3. Accept the terms & conditions & click "ok"



Dress Code

The dress code for all meetings is business casual. The dress code for all guest programs is casual. Wear your best hawaiian shirt, your favorite shorts, and your flip flops on Sunday evening to the Alabama Shrimp Boil. You can also come as casual as you would like for the host night event Wednesday evening.



Meeting Staff

ALDOT volunteer staff will be available to assist you with any questions you may have. ALDOT staff will be wearing navy polo shirts for easy identification.



Professional Development Hours

Professional Development Hours will be based on attendance at the technical and general sessions. A list of the hours available is on page 53 of the program guide. This form will serve as a record for all hours completed at this meeting. AASHTO will not provide certificates to attendees after the conference.



Photographs

In addition to the group photo, photographs will be taken at various meetings. These photos may be used on the AASHTO website or in future presentations. If you have concerns about the photos, please let Kristen Thomas know prior to the meeting.



Meeting Mobile App

Browse the meeting agenda on your phone or tablet via the event mobile app. Along with navigating the event agenda, you can use the app to communicate with other attendees, build a personalized meeting schedule, keep up to date on agenda changes, take notes during your meeting, and last, but certainly not least, track your Professional Development Hours. For those without a smart phone or who would like to access the information in a web browser, visit <https://crowd.cc/bridges> and for downloading the app on your mobile phone please follow the instructions:

1. Download "CrowdCompass AttendeeHub" mobile app or visit: <https://crowd.cc/s/2ZCQ4>
2. Once the App is Downloaded and opened up already, type "AASHTO 2019 Committee on Bridges" in the search box.
3. Download the event
4. Once the event is downloaded, you will be prompted to Log In
5. Enter Information as requested and a 4-digit Verification Code would be sent to your email inbox/ mobile number
6. Access the code and input within the mobile app
7. You'll be logged in successfully with a welcome message.



Guest/Spouse Programs

Gather at the registration/information desk for guest/spouse tours each day. The following daily agenda has been created by ALDOT to showcase some of Alabama's finest locations:

Monday: Trip to Selma, Montgomery Historic Cultural Tour

After departing the hotel at 9:30 am, the group will visit the Lowndes County Interpretive Center, enjoy lunch at a local Selma restaurant, take a guided tour of the Chapel A.M.E. Church, and visit the Pettus Bridge Walk and Memorial Park. Return time will be 3:45 pm. Cost is \$22/person for the day, not including lunch.

Tuesday: Montgomery Capitol and Cultural Tour

Tuesday's tour departs at 8:30, and will visit the State Capitol, Blount Cultural Park, and the Montgomery Museum of Fine Arts. After lunch at the museum café, the group will visit the Hank Williams Grave Site and Museum. Return time will be 3:00 pm. Cost is \$10/person for the day, not including lunch.

Note: Participation in the above activities does not require registration however access to hotel food functions (daily breakfast and lunches), Opening Reception (Sunday) and Host State Night Event (Wednesday) does require guest/spouse registration.



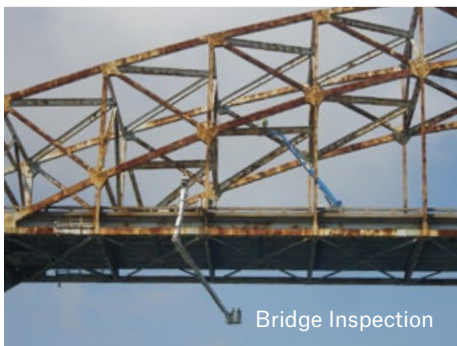
Bridge Preservation



Bridge Design



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Bridge Inspection



Underwater Bridge Inspection

From interstates and intersections to bridges and bike paths, transportation systems connect us to the people and places we care about most – and this idea drives the work we do at Gresham Smith.

Our designs are grounded in safety and efficiency, pushing boundaries toward multi-modal, technology-driven solutions. Finding better ways of moving people and products requires specialized knowledge of policies, thoughtful planning and complex technical work. That's how we live out our genuine desire to boost the quality of life within the context of each unique community.

Schedule of Events and Locations

Sunday, June 23, 2019

Noon.–5:00 p.m.	Registration	Alabama Ballroom Pre-Function
6:00 p.m.–9:00 p.m.	Welcome Reception	Union Station Train Shed

Monday, June 24, 2019

7:00 a.m.–5:00 p.m.	Registration	Alabama Ballroom Pre-Function
7:00 a.m.–8:30 a.m.	Breakfast	Exhibit Hall B
8:00 a.m.–Noon	Technical Committee Meetings: T-2: Bearings & Expansion Devices T-5: Loads & Load Distribution T-8: Movable Bridges T-9: Bridge Preservation T-16: Timber Structures	Alabama C Alabama B Alabama D Alabama A Alabama E
9:45 a.m.–10:15 a.m.	Break	Alabama Ballroom Pre-Function
Noon–1:00 p.m.	Lunch	Exhibit Hall B
1:00 p.m.–5:00 p.m.	Technical Committee Meetings: T-1: Bridge Security and Hazards T-3: Seismic Design T-10: Concrete Design T-12: Structural Supports T-19: Software and Technology	Alabama D Alabama E Alabama A Alabama C Alabama B
2:45 p.m.–3:15 p.m.	Break	Alabama Ballroom Pre-Function

Tuesday, June 25, 2019

7:00 a.m.–5:00 p.m.	Registration	Alabama Ballroom Pre-Function
7:00 a.m.–8:00 a.m.	Breakfast	Exhibit Hall B
8:00 a.m.–Noon	Technical Committee Meetings: T-6: Fiber Reinforced Polymer Composites T-13: Culverts T-15: Substructures & Retaining Walls T-17: Metals Fabrication T-18: Bridge Management, Evaluation, & Rehabilitation	Alabama E Alabama D Alabama B Alabama C Alabama A



9:45 a.m.–10:15 a.m.	Break	<i>Alabama Ballroom Pre-Function</i>
Noon–1:00 p.m.	Awards Lunch	<i>Exhibit Hall B</i>
1:00 p.m.–5:00 p.m.	Technical Committee Meetings: T-4: Construction T-7: Guardrail & Bridge Rail T-11: Research T-14: Structural Steel Design T-20: Tunnels	<i>Alabama B</i> <i>Alabama E</i> <i>Alabama D</i> <i>Alabama A</i> <i>Alabama C</i>
2:45 p.m.–3:15 p.m.	Break	<i>Alabama Ballroom Pre-Function</i>

Wednesday, June 26, 2019

7:00 a.m.–5:00 p.m.	Registration	<i>Alabama Pre-Function</i>
7:00 a.m.–8:00 a.m.	Breakfast	<i>Exhibit Hall B</i>
8:00 a.m.–Noon	State Bridge Engineers Meeting (Closed)	<i>Alabama AB</i>
9:45 a.m.–10:15 a.m.	Break	<i>Alabama Ballroom Pre-Function</i>
Noon–1:00 p.m.	Lunch	<i>Alabama Pre-Function</i>
1:00 p.m.–5:00 p.m.	General Session	<i>Alabama AB</i>
2:45 p.m.–3:15 p.m.	Break	<i>Alabama Ballroom Pre-Function</i>
6:00 p.m.	Host State Night	<i>At Alley Station</i>

Thursday, June 27, 2019

7:00 a.m.–5:00 p.m.	Registration	<i>Alabama Pre-Function</i>
7:00 a.m.–8:00 a.m.	Breakfast	<i>Exhibit Hall B</i>
8:00 a.m.–Noon	General Session	<i>Alabama AB</i>
9:45 a.m.–10:15 a.m.	Break	<i>Alabama Pre-Function</i>
Noon–1:00 p.m.	Lunch	<i>Exhibit Hall B</i>
1:00 p.m.–4:00 p.m.	General Session	<i>Alabama AB</i>
2:30 p.m.–3:00 p.m.	Break	<i>Alabama Pre-Function</i>
4:30 p.m.–7:00 p.m.	Executive Committee Meeting (by invitation only)	<i>Montgomery 7</i>

AASHTO Technical Committee Meetings

T-1 <i>Alabama D</i>	AASHTO Technical Committee for Bridge Security and Hazards Cheryl Hersh Simmons, Utah DOT, Chair Monday, June 24, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Cheryl Hersh Simmons <i>Chair</i>
1:15 p.m.	FHWA Security Research Update and Recent Advances in Bridge Security Research	Sheila Duwadi <i>FHWA Turner Fairbank Senior Research Engineer, Safety & Security</i> Vincent Chiarito <i>FHWA Research Senior Bridge Engineer, Safety & Security</i>
1:45 p.m.	State of Practice: Bridge Security Overview	Carrie Davis, P.E. <i>Structural Consultants</i>
2:05 p.m.	ASCE SEI Structural Design for Physical Security: New Bridge Design Chapter	Rob Smith, S.E., P.E., SEng, FICE, MStructE, PEng <i>ARUP</i>
2:25 p.m.	TSA Update	David Cooper <i>U.S. Department of Homeland Security/TSA</i>
2:45 p.m.	Break	
3:15 p.m.	Business Session	T-1 Members Only
5:00 p.m.	Adjourn	

T-2 <i>Alabama C</i>	AASHTO Technical Committee for Bearings and Expansion Devices Carl Puzey, Illinois DOT, Chair Monday, June 24, 2019 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Carl Puzey <i>Chair</i>
8:10 a.m.	Non-Destructive Testing of HLMR Bearings	Ron Watson <i>RJ Watson, Inc.</i>
8:40 a.m.	A19 Test Protocol—Lessons Learned, Industry Reconciliation, Owner Protocol, and Enforcement	Steve Pabst <i>Watson Bowman</i> Tom Lewis <i>DS Brown Co.</i>

(T-2 Agenda cont'd)



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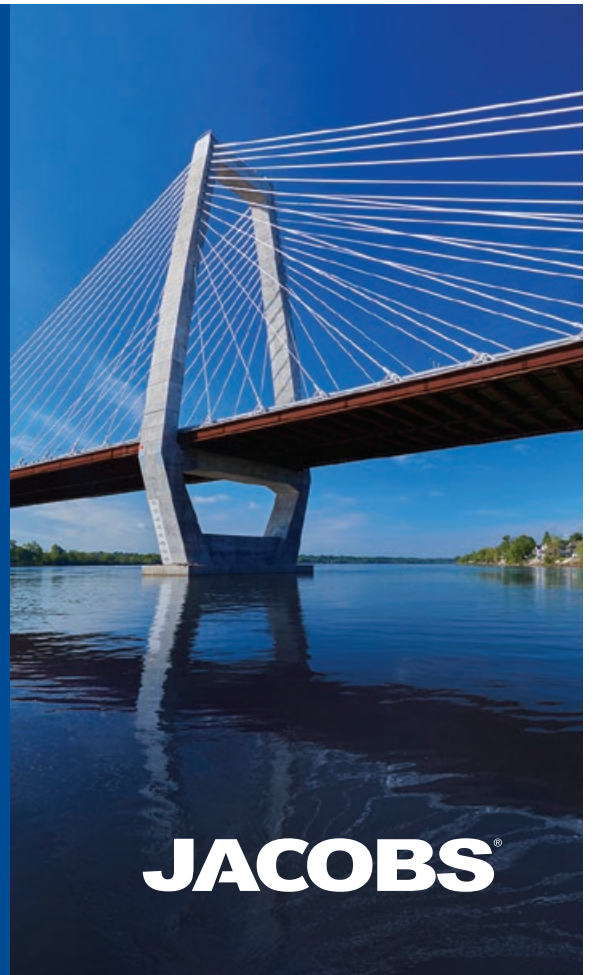
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(T-2 Agenda cont'd)

9:10 a.m.	Update on Disc-Bearing Specification Review and Potential Revisions	Sougata Roy <i>Sougata Roy, LLC</i>
9:45 a.m.	Break	
10:15 a.m.	T-2 Committee Discussion Items: <ul style="list-style-type: none"> • Potential disc bearing revisions • PTFE adhesive & bond testing issues • AASHTO M251 8.9.2 conditioning times • Other potential ballots items for 2020 <ul style="list-style-type: none"> ▪ A19 5.3.1.2 & 5.3.1.3 inconsistency ▪ C14.7.6.1 width vs length ▪ A19 5.3.4.1.1 specimen length change 	T-2 Committee
11:15 p.m.	T-2 Work Plan	T-2 Committee
11:30 p.m.	T-2 Research Priorities	T-2 Committee
Noon	Adjourn	

T-3 <i>Alabama E</i>	AASHTO Technical Committee on Seismic Design Rich Pratt, Alaska DOT&PF, Chair Monday, June 24, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Richard Pratt <i>Chair</i>
1:10 p.m.	Why Structural Engineers Need to Be Involved in Seismic Hazard Representation: The Impact of Response Spectra Definitions on the Seismic Design of Bridges	Ariadne Palma <i>Graduate Research Assistant, North Carolina State University</i>
2:10 p.m.	Unresolved Issues in Damping and Their Impact on Bridge Displacement Estimation	Mervyn Kowalsky, Ph.D., P.E. <i>North Carolina State University</i>
2:55 p.m.	Break	
3:15 p.m.	Research in Support of Seismic Bridge Design and Detailing in Alabama	Justin Marshall, Ph.D., P.E. <i>Auburn University</i>
3:45 p.m.	Research Updates: <ul style="list-style-type: none"> • Performance Based Seismic Design (NCHRP 12-106) including AASHTO Hazard Map Update • Update on AASHTO Seismic Specifications for ABC Column Connections (NCHRP 12-105) • Tsunami Guide Specifications 	Thomas Murphy, Ph.D., P.E., S.E. <i>Modjeski and Masters</i>

(T-3 Agenda cont'd)



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(T-3 Agenda cont'd)

4:30 p.m.	T-3 Research Priorities and Planning	Committee
5:00 p.m.	Adjourn	

T-4 <i>Alabama B</i>	AASHTO Technical Committee for Construction Carmen Swanwick, Utah DOT, Chair Tuesday, June 25, 2019 1:00 p.m.–5:00 p.m.	
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1:00 p.m.	Welcome and Introductions	Carmen Swanwick <i>Chair</i>
1:10 p.m.	Old Business: <ul style="list-style-type: none"> Approval of December 2018 Mid-Year Meeting Minutes Other old business 	Ahmad Abu-Hawash <i>Vice Chair</i>
1:15 p.m.	Ballot Items: <ul style="list-style-type: none"> T-4: GDSTBW Article 2.3.5.2 (Wind Load Revisions) T-4: FIO Proposed AASHTO GDCTB T-13: LRFD BCS Article 27.6.1 T-15: LRFD BCS Section 7 Earth Retaining Structures—Additions T-15: LRFD BCS Section # Soil Nails—New Section Others 	Carmen Swanwick <i>Chair</i> T-13 Matt Chynoweth
1:45 p.m.	Research Update and Needs: <ul style="list-style-type: none"> Report by Research Projects and Needs Coordinator (Discuss All Projects—Spreadsheet) RNS Development of Timelines/Incentives/Disincentives for ABC Project NCHRP 20-07/Task 388 Guidelines for Design and Construction of Temporary Bridges—Update Proposed RNS NCHRP 20-05 Bridge Construction Inspection Training Synthesis Proposed RNS NCHRP 20-0X Best Practices for Bridge Detailing for Durability NCHRP 20-05 Topic 49-03; Bridge Demolition Practices—To be published by June 2019 NCHRP 20-44(04) Implementing Products from Research on Adhesive Anchor Systems 	Ahmad Abu-Hawash Ahmad Abu-Hawash Carmen Swanwick Kathy Crowell Kathy Crowell Carmen Swanwick Ahmad Abu-Hawash William Nickas
2:30 p.m.	Discussion Topics: <ul style="list-style-type: none"> AASHTO LRFD Bridge Specifications Update—Scope of Work AASHTO Guide Specifications for ABC—Training Development ABC Traffic Impact Tier Levels; Terms for Contracting (ABC—UTC Database) FHWA—Quality Assurance Document (WSP) 	Mark Gaines Carmen Swanwick/ Mike Culmo Ahmad Abu-Hawash Carmen Swanwick

(T-4 Agenda cont'd)



(T-4 Agenda cont'd)

2:45 P.m.	Break	
3:15 p.m.	Presentations <ul style="list-style-type: none"> FHWA Update TRB ABC Joint Subcommittee Update ABC-UTC Update PCI Update NSBA Update ASBI Update Updates from Other Committees Updates to Strategic Plan/Task Other discussion 	Romeo Garcia (FHWA) (10 min) Ahmad Abu-Hawash (10 min) Atorod Azizinamini, FIU (15 min) William Nickas, PCI (15 min) Jeff Carlson, NSBA (15 min) Gregg Freeby, ASBI (15 min) T-4 Liaisons (10 min) Committee Committee
4:55 p.m.	Other Business <ul style="list-style-type: none"> 2019 T-4 Mid-Year Meeting—December (ABC–UTC; ABC Conference) 	Carmen Swanwick <i>Chair</i>
5:00 p.m.	Adjourn	

T-5 <i>Alabama B</i>	AASHTO Technical Committee on Loads and Load Distribution Jeffrey Robert, Maryland DOT, Chair Monday, June 24, 2019 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Jeffrey Robert <i>Chair</i>
8:05 a.m.	Approval of Past Meeting Minutes	Lubin Gao <i>FHWA Ex-Officio</i>
8:10 a.m.	Ballot Item—Articles 3.6.5 and C3.6.5 Vehicular Collision Force (CT)	Arielle Ehrlich <i>Minnesota DOT</i> Jeffrey Robert <i>Maryland DOT</i>
8:50 a.m.	T-13 Ballot Items—Article 3.6.1.2.6a	Josh Beakley <i>ACPA</i>
9:10 p.m.	Ballot Items—Update of Other Technical Committee’s Work	Jeffrey Robert <i>Maryland DOT</i>

(T-5 Agenda cont'd)

(T-5 Agenda cont'd)

9:20 a.m.	Update on Truck Platooning Study	Wagdy Wassef, Ph.D., P.E. WSP
9:45 a.m.	Break	
10:15 a.m.	Live Load Distribution and Dynamic Amplification on a Curved Prestressed Concrete Transit Bridge	John Lobo P.E., M.ASCE HDR, Inc. Easa Khan, Ph.D. Wood
11:05 a.m.	Update on Tsunami Guide Specification	Tom Murphy, Ph.D., P.E. Modjeski & Masters, Inc.
11:50 a.m.	General Discussion	Committee
Noon p.m.	Adjourn	

T-6 <i>Alabama E</i>	AASHTO Technical Committee on Fiber Reinforced Polymer Composites Matthew Chynoweth, Michigan DOT, Chair Tuesday, June 25, 2019 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Matthew Chynoweth Chair
8:15–8:45 a.m.	Development and Delivery of Training Materials for FRP Design and Construction for State DOTs	J. Elkaissi
8:45–9:15 a.m.	UMaine/AIT Composite Girder System	M. Frankhauser
9:15–9:45 a.m.	NCHRP 20-07 Task 428, in Updating the <i>Guide Specifications for Design of Bonded FRP Systems for Repair</i>	Matthew Chynoweth
9:45–10:05 a.m.	Break	
10:05–10:35 a.m.	Halls River Bridge Project	W. Potter
10:35–11:05 a.m.	Hampton Roads Bridge Tunnel Approaches FRP Repairs	A. Zickler
11:05–11:35 a.m.	Oregon Deck Overhang Strengthening with NSM CFRP	T. Potisuk
11:35–Noon	<ul style="list-style-type: none"> T-6 Strategic Plan Discussion Pooled-Fund Study: Durability Evaluation of In-Service FRP Composites in Highway Structures FDOT FRP Website 	Committee
Noon	Adjourn	

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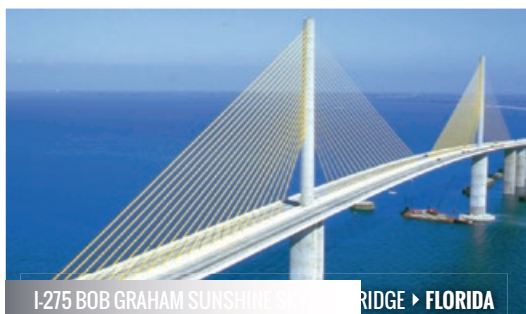
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T-7 <i>Alabama E</i>	<i>AASHTO Technical Committee on Guardrail and Bridge Rail</i> Tim Keller, Ohio DOT, Chair Tuesday, June 25, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Tim Keller <i>Chair</i>
1:05 p.m.	Midwest Pooled-Fund Update	Ronald Faller, Ph.D. <i>MwRSF</i>
2:05 p.m.	TTI Pooled-Fund Update	William Williams <i>TTI</i>
3:05 p.m.	Break	
3:20 p.m.	Texas DOT Bridge Rails	Jamie Farris <i>TxDOT</i>
4:20 p.m.	Research Discussion <ul style="list-style-type: none"> • NCHRP 22-35 • NCHRP 22-36 • NCHRP 22-41 • Other 	Tim Keller <i>Chair, Ohio DOT</i>
4:45 p.m.	Open Discussion	Tim Keller <i>Chair, Ohio DOT</i>
5:00 p.m.	Adjourn	

T-8 <i>Alabama D</i>	<i>AASHTO Technical Committee for Movable Bridges</i> Zhengzheng (Jenny) Fu, LaDOTD, Chair Monday, June 24, 2019 8:00 a.m.–Noon
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8:00 a.m.	Introduction: (T-8 members and friends of T-8)	Zhengzheng (Jenny) Fu <i>Chair</i>
8:10 a.m.	Approval of 2018 SCOBS T-8 meeting Minutes	T-8 Members
8:20 a.m.	NCHRP Project 12-112 Update—Update of the AASHTO LRFD Movable Highway Bridge Design Specifications	Jeff Newman <i>Modjeski & Masters</i>
8:40 a.m.	Broadway Bridge Rail Wheel Replacement Project	Jon Henrichsen <i>MCTD</i>

(T-8 Agenda cont'd)



(T-8 Agenda cont'd)

9:00 a.m.	92nd Street Bascule Bridge Repairs	Patrick J Marra WJE John R. Williams SBE
9:20 a.m.	Small Bridges, Big Challenges	Keith R. Griesing H&H
9:40 a.m.	U.S. vs. Europe Code Compliance	Paul Skelton H&H
10:00 a.m.	Acrow Temp. Lift Bridge on SR 80 Bridge Replacement Project, West Palm Beach, Florida	Michael J. Parciasepe ACROW
10:20 a.m.	Span Drive Machinery Vibration at Hood Canal Bridge	Ryan Kanagy SBE
10:40 a.m.	Movable Bridge Remote Operation Practices	Rob Moses & Raphael Costa HDR
	T-8 Committee Business Items:	
11:00 a.m.	Conference Call (4/12/19) Recap	
11:05 a.m.	Previous NCHRP 20-07 Task 403—Develop Detailed Elements for Movable Bridge Inspection and Management	
11:20 a.m.	20-07 Task 424—Operation of Movable Bridges from Remote Locations	
11:25 a.m.	Buy America Wavier	
11:35 a.m.	Develop T-8 Strategic Plan and Future Research Needs (will request a specialized technical support contract)	
11:45 a.m.	Mid-Year Meeting Plan	
Noon	Adjourn	



Please make sure to have your badge scanned or sign the paper sign-in sheets to record your attendance in all sessions.

T-9 <i>Alabama A</i>	<i>AASHTO Technical Committee on Bridge Preservation</i> Jim Nelson, Iowa DOT, Chair Monday, June 24, 2019 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Jim Nelson <i>Chair</i>
8:15 a.m.	Review Ballot Items	Tom Murphy <i>Modjeski & Masters</i> George Hearn <i>University of Colorado—Boulder</i> Chris Higgins <i>Oregon State University</i> Ray Bottenberg <i>Oregon DOT</i>
9:45 a.m.	Break	
10:15 a.m.	Bridge Preservation using Cathodic Protection	Paul Vinik <i>GPI</i>
10:30 a.m.	SCOM Bridge Technical WG Update	David Miller <i>Louisiana DOTD</i>
10:45 a.m.	<i>Bridge Preservation Video & ETG Update</i>	Raj Alainey <i>FHWA</i>
11:00 a.m.	FHWA Long-Term Bridge Program Update	Jean Nehme <i>FHWA</i>
11:15 a.m.	TSP2 Bridge Preservation Update	Ed Welch <i>NCPP (invited)</i>
11:30 a.m.	T-9 Research Priorities, Strategic Plan	Jim Nelson <i>Chair</i>
Noon	Adjourn	

T-10 <i>Alabama A</i>	<i>AASHTO Technical Committee for Concrete Design</i> Kevin Western, Minnesota DOT, Chair Monday, June 24, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Introduction	Committee
1:15 p.m.	Review/Approve Louisville Meeting Minutes	Kevin Western <i>Chair</i>

(T-10 Agenda cont'd)



(T-10 Agenda cont'd)

1:10 p.m.–1:20 p.m.	Approve T10 Ballot items: <ul style="list-style-type: none"> • WAI 195A—Debonding • WAI 197—PT System • WAI 199—Column Ties 	Committee
2:20 p.m.	FHWA/PCI/AASHTO Products NCBC Activities	William Nickas
2:45 p.m.	Break	
3:15 p.m.	PCI UHPC Research Implementation	Maher Tadros
3:40 p.m.	FHWA UHPC Research	Ben Graybeal
4:10 p.m.	NCHRP Update	Waseem Dekelbab
4:30 p.m.	EIT Scanning Tour	Graham Bettis
4:50 p.m.	Discuss future items/Next meeting	Committee
5:00 p.m.	Adjourn	

T-11 <i>Alabama D</i>	AASHTO Technical Committee for Research Anne Rearick, Indiana DOT, Chair Tuesday, June 25, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Anne Rearick <i>Chair</i>
1:15 p.m.	TRB Structures Section Update	Barney Martin <i>Chair, TRB Structures Section</i>
1:45 p.m.	TRB Research Update	Waseem Dekelbab <i>TRB</i>
2:15 p.m.	Presentation TBD	TBD <i>TBD</i>
2:45 p.m.	Break	
3:15 p.m.	Open Discussion	
11:00 a.m.	T-11 Business Meeting (<i>Closed to Public</i>)	T-11 Members
Noon	Adjourn	

T-12 <i>Alabama C</i>	<i>AASHTO Technical Committee on Structural Supports for Signs, Luminaires, and Traffic Signals</i> Sam Fallaha, Florida DOT, Chair Monday, June 25, 2018 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Sam Fallaha <i>Chair</i>
1:05 p.m.	Approval of Minutes of Past Meetings	Jason Hastings
1:15 p.m.	<ul style="list-style-type: none"> WAI LRFD 09: Section 14, Article 14.4.4.8 WAI SLTS 05: Section 5, Article 5.15.5 	Committee
1:30 p.m.	WAI LRFD 14: Section 3, Article C3.7	Committee
1:45 p.m.	WAI LRFD 28: Section 6, Table 6.5.1-12	Committee
2:00 p.m.	KDOT Experience with HMLT	Karen Peterson, P.E.
2:20 p.m.	Presentation: LRFD Section 6, Aluminum Design Update	Randy Kissell, P.E. <i>Trinity Consultants</i>
3:00 p.m.	Break	
3:20 p.m.	Re-Tightening the Large Anchor Bolts of Support Structures for Signs and Luminaires	An Chen, Ph.D., P.E., LEED AP <i>Iowa State University</i>
4:00 p.m.	Plan for the 2020 Wind Maps Update	Committee
4:20 p.m.	General Discussion	Committee
5:00 p.m.	Adjourn	

T-13 <i>Alabama D</i>	<i>AASHTO Technical Committee for Culverts</i> Jason Hastings, Delaware DOT, Chair Tuesday, June 25, 2019 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Jason Hastings <i>Chair</i>
8:10 a.m.	Approval of Minutes: <ul style="list-style-type: none"> 2018 Annual Meeting (Burlington) 	Jason Hastings <i>Chair</i>

(T-13 Agenda cont'd)



(T-13 Agenda cont'd)

8:15 a.m.	2019 Ballot Items: <ul style="list-style-type: none"> • WAI 19-01 Design 3.6.1.2.6a (1) • WAI 19-02 Design 3.6.1.2.6a (2) • WAI 19-03 Design 12.5.4 • WAI 19-05 Construction C27.6.1 • WAI 19-06 Design 12.12.3.10.2b-4 • WAI 19-07 Design C12.12.3.5 • WAI 19-09 Design 12.12.3.10 • WAI 19-10 Design 12.4.2.10 • WAI 19-11 Design Chapter 12 Various (1) • WAI 19-12 Design Chapter 12 Various (2) • WAI 19-13 Culvert Guide Appendices 	Jason Hastings <i>Chair</i>
9:15 a.m.	Presentation: Seismic Design Method for Long-Span Corrugated Steel Culverts and Buried Bridges	Jesse Beaver <i>Simpson Gumpertz & Heger</i>
9:30 a.m.	Break	
10:00 a.m.	NCHRP 15-54 Rating of Buried Structures	TBD
10:20 a.m.	Introduction of 2020 Ballot Items	Various
10:50 a.m.	Calculating E-80 Railroad Live Loads on Sliplined CMP Pipe	Tim Toliver <i>Advance Pipe Services</i>
11:10 a.m.	Research: <ul style="list-style-type: none"> • TRB AFF70 Update • Research Needs 	Various
Noon	Adjourn	

T-14 <i>Alabama A</i>	AASHTO Technical Committee for Structural Steel Design Thomas Macioce, Pennsylvania DOT Chair Tuesday, June 25, 2019 1:00 p.m.–5:00 p.m.
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1:00–1:15 p.m.	Introductions and Opening Remarks	Tom Macioce <i>Chair</i>
1:15–1:50 p.m.	<ul style="list-style-type: none"> • Agenda Items and Editorials • Revisions to Articles 6.8.2.2 and C6.8.2.2 • Revisions to Articles 6.10.1.4 and C6.10.1.4 • Revisions to Articles 6.12.2.2.4 and C6.12.2.2.4 • Revisions to Articles 6.13.2.9, C6.13.2.9, C6.13.6.1.3b, 6.13.6.1.3c, and C6.13.6.1.3c • Miscellaneous items 	Mike Grubb
1:50–2:00 p.m.	AASHTO Fabrication Specification	Heather Gilmer

(T-14 Agenda cont'd)

(T-14 Agenda cont'd)

2:00–2:15 p.m.	Concrete-Filled Steel Tubes	Tom Murphy
2:15–2:45 p.m.	Final LRFD Specifications for Noncomposite Box Section Members Containing Longitudinally Stiffened Plates	Don White and Tony Ream
2:45–3:15 p.m.	Break	
3:15–3:45 p.m.	Question and Answers Regarding Final LRFD	Don White and Tony Ream
3:45–4:00 p.m.	Question and Answers regarding Final LRFD Specifications for Noncomposite Box Section Members Containing Longitudinally Stiffened Plates	Committee
4:00–4:20 p.m.	Collaboration Update <ul style="list-style-type: none"> G4.1 Steel Bridge Fabrication QC/QA Guide G13.1 Steel Girder Bridge Analysis S10.1 Erection Guide Specification 	Ronnie Medlock and Brandon Chavel
4:20–4:30 p.m.	T-18 Ballot Item Regarding End Panel Shear Capacity	Matt Farrar
4:30–4:50 p.m.	FHWA FC Memo and TAs	Dayi Wang
4:50–5:00 p.m.	Open Discussion	Committee
5:00 p.m.	Adjourn	

T-15 <i>Alabama B</i>	<i>AASHTO Technical Committee for Substructures and Retaining Walls</i> Tony M. Allen, Washington State DOT, Chair Tuesday, June 25, 2019 8:00 a.m.–Noon
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8:00 a.m.–8:10 a.m.	Introductions and Opening Remarks	Tony Allen <i>Chair</i>
8:10 a.m.–8:40 a.m.	Rewrite and Update of Section 10.4—Soil and Rock Properties	Dr. Erik Loehr
8:40 a.m.–9:15 a.m.	Large Diameter Pile Research Results and Recommendations	Kathryn Petek <i>Shannon and Wilson</i>
9:15 a.m.–9:45 a.m.	Bridge Scour Risk Management—NCHRP 15-02 Scan Results	NCHRP Scan 15-02 Team Rebecca Curtis <i>Michigan DOT</i>
9:45 a.m.–10:00 a.m.	Break	

(T-15 Agenda cont'd)



(T-15 Agenda cont'd)

10:00 a.m.–11:00 a.m.	T15 Ballot Items—MSE Wall Internal Stability Items—Discussion and Vote	Scott Hidden <i>North Carolina DOT</i>
11:00 a.m.–11:30 a.m.	T15 Ballot Item—Soil Nail Wall Construction—Discussion and Vote	Tony Allen <i>Chair</i>
11:30 a.m.–11:45 a.m.	T15 Ballot Item—Minor Items—Discussion and Vote	Tony Allen <i>Chair</i>
11:45 a.m.–Noon	T15 Closed Session for Future Planning	Committee
Noon	Adjourn	

T-16 <i>Alabama E</i>	<i>AASHTO Technical Committee for Timber Structures</i> Thomas Macioce, Pennsylvania DOT Chair Monday, June 24, 2019 8:00 a.m.–9:30 a.m.
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8:00–8:10 a.m.	Welcome and Introductions	Tom Macioce <i>Chair</i>
8:10–9:15 a.m.	Agenda Item Section 8 Proposed Revision and Comments	Committee
9:15–9:30 a.m.	New Business	Committee
9:30 a.m.	Adjourn	

T-17 <i>Alabama C</i>	<i>AASHTO Technical Committee for Metals Fabrication</i> Alexander Bardow, Massachusetts DOT, Chair Tuesday, June 26, 2018 8:00 a.m.–Noon
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8:00 a.m.	Welcome and Introductions	Alexander Bardow <i>Chair</i>
8:10 a.m.	Approval of Minutes from 2018 Annual Meeting	Alexander Bardow <i>Chair</i>
8:15 a.m.	SC 10 Committee Report	Ronnie Medlock <i>SC 10 Vice Chair</i>
8:45 a.m.	T-17 Ballot Review	Ronnie Medlock <i>SC 10 Vice Chair</i>
9:05 a.m.	FHWA Research Update	FHWA

(T-17 Agenda cont'd)

(T-17 Agenda cont'd)

9:35 a.m.	Other Research Updates	Various
9:45 a.m.	Break	
10:15 a.m.	Review of Draft Metals Fabrication Specifications	Committee
11:45 a.m.	2019 T-17 Mid-Year Meeting	Alexander Bardow Chair
11:50 a.m.	Old Business	Alexander Bardow Chair
11:55 a.m.	New Business	Alexander Bardow Chair
Noon	Adjourn	

T-18 <i>Alabama A</i>	AASHTO Technical Committee for Bridge Management, Evaluation, and Rehabilitation Matthew M. Farrar, Idaho DOT, Chair Tuesday, June 25, 2019 8:00 a.m.–Noon	
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8:00 a.m.	Welcome and Introductions	Matt Farrar Chair
8:05 a.m.	<ul style="list-style-type: none"> Approval of 2018 Minutes (Burlington, VT) Approval of 2018 Midyear Minutes (Boise, ID) 	Matt Farrar Chair
8:10 a.m.	Discussion of Agenda Items: <ul style="list-style-type: none"> T18-1 ER Vehicles T18-2 Steel Girder End Panel Shear T18-3 MBE Appendix A, Ex A1 T18-4 MBE Appendix A, Ex A7 T18-5 MBE Buried Culverts 	Matt Farrar Chair
8:35 a.m.	NCHRP 20-07 Task 410 Calibration of Load Factors for the FAST Act EV-2 & EV-3	Bala Sivakumar HNTB
9:00 a.m.	FHWA Updates: <ul style="list-style-type: none"> Coding Guide Update Asset Management and TAMP Issues NBIS Update UAV (Drones) FHWA Memo regarding Timeframe for placing Posting Signs Cross-Over Tunnel Issues for Bridge Inspectors 	Shay Burrows FHWA

(T-18 Agenda cont'd)



(T-18 Agenda cont'd)

9:25 a.m.	BrM and BrR Updates and Implementation	Eric Christie and Todd Thompson <i>AASHTOWare Task Force</i>
9:55 a.m.	Break	
10:05 a.m.	<ul style="list-style-type: none"> • MBEI 2nd Additional Defect Photos and Condition States • Pooled-Fund Study for Risk Based Bridge Inspection Intervals Implementation 	Glenn Washer <i>University of Missouri</i>
10:35 a.m.	NCHRP 15-54 Proposed Modification to AASHTO <i>Culvert Load Rating Specifications</i>	Mark Mlynarski <i>Michael Baker, Jr. Inc.</i>
11:05 a.m.	NDE and Smart Bridge Technology and MBE Section 5 Materials Testing	Hoda Azari <i>FHWA</i>
11:25 a.m.	<ul style="list-style-type: none"> • Guide Spec for Internally Redundant Members—Additions • Pooled-Fund Study Regarding Pack Rust • Recap Load Rating of Rail Cars 	Rob Connor <i>Purdue</i>
11:45 a.m.	Recap	Matt Farrar <i>Chair</i>
Noon	Adjourn	

T-19 <i>Alabama B</i>	AASHTO Technical Committee for Software and Technology Scot Becker, Wisconsin DOT, Chair Monday, June 24, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Scot Becker <i>Wisconsin DOT, Chair</i>
1:05 p.m.	Alabama Technology Showcase: <i>The Portable Bridge WIM</i>	Eric Christie <i>Alabama DOT</i> Robert Taylor <i>Cestel</i>
1:30 p.m.	BIM for Bridges and Structures Initiative—Pooled-Fund Update	Julie Rivera and Connor Christian <i>HDR</i>
2:30 p.m.	FHWA Project: <i>BIM for Bridges Demonstration</i>	Brian Kozy <i>FHWA</i> Joe Brenner <i>WSP</i>

(T-19 Agenda cont'd)

(T-19 Agenda cont'd)

3:00 p.m.	Break	
3:20 p.m.	BIM for Bridges and Structures Pilot Project Updates—Utah DOT	Mark Daniels <i>Utah DOT</i>
3:40 p.m.	I-80/I-380 Interchange BIM 3D Pilot Project—Iowa DOT	Ahmad Abu-Hawash <i>Iowa DOT</i>
4:00 p.m.	Model Based Contracting at NYSDOT—Rt. 28 over Esopus Creek Bridge Replacement—New York State DOT	Brenda Crudele <i>New York State DOT</i>
4:20 p.m.	AASHTOWare Bridge Update	Todd Thompson <i>South Dakota DOT</i>
4:40 p.m.	Closing Remarks	Scot Becker <i>Wisconsin DOT, Chair</i>
5:00 p.m.	Adjourn	

T-20 <i>Alabama C</i>	AASHTO Technical Committee for Tunnels Lou Ruzzi, P.E., Pennsylvania DOT, Chair Tuesday, June 25, 2019 1:00 p.m.–5:00 p.m.
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1:00 p.m.	Welcome and Introductions	Lou Ruzzi, P.E. <i>PennDOT, Chair</i>
1:05 p.m.	Research Priorities/Strategic Plan Update	T-20
2:15 p.m.	Adhesive Anchors Policy	Bill Bergeson, P.E. <i>FHWA</i>
2:45 p.m.	Break	
3:15 p.m.	FHWA Update	Bill Bergeson, P.E. <i>FHWA</i>
3:45 p.m.	AFF60 Update	Conrad Felice P.E., Ph.D.
4:00 p.m.	Update of VDOT's Tunnel Cracking Problem Closed Session	Prasad Nallapaneni, P.E.
4:30 p.m.	Proposed Changes to <i>LRFD Manual</i> Closed Session	Lou Ruzzi <i>PennDOT, Chair</i>
4:45 p.m.	Discussion on 2020 Mid-Year Meeting Closed Session	Committee
5:00 p.m.	Adjourn	



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**FOR
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General Session Proceedings

(As of 6/6/19)

Please Note: Ballot items are indicated by sequential numbers.

Wednesday, June 26, 2019, Alabama AB

1:00 p.m.–2:45 p.m.	
	Welcome by Chairman—Carmen Swanwick, Chair, Utah DOT
	Alabama Welcome—Don Arkle, Chief Engineer, Alabama DOT
	Roll Call—Joey Hartmann, Liaison, FHWA
	Service Resolutions and Remarks by Chairman—Carmen Swanwick, Chair, Utah DOT
	FHWA Update—Joey Hartmann, Liaison, FHWA
1	T-4 Committee (Construction)— <i>AASHTO Guide Design Specifications for Bridge Temporary Works</i> : Section 2, Article 2.3.5.2, and Appendix C and E—Carmen Swanwick, T-4 Chair, Utah DOT
2	T-5 Committee (Loads and Load Distribution)— <i>LRFD Bridge Design Specifications</i> : Section 3, Articles 3.3.1, 3.6.5.1, 3.6.5.2 and 3.16—Jeff Robert, T-5 Chair, Maryland DOT
3	T-9 Committee (Bridge Preservation)— <i>Guide for Design and Construction of Near-Surface Mounted Titanium Alloy Bars for Strengthening Concrete Structures</i> —Jim Nelson, T-9 Chair, Iowa DOT
4	T-9 Committee (Bridge Preservation)— <i>Historic Bridge Preservation Guide Specification</i> —Jim Nelson, T-9 Chair, Iowa DOT
5	T-9 Committee (Bridge Preservation)— <i>Guide Specification for Service Life Design of Highway Bridges</i> —Jim Nelson, T-9 Chair, Iowa DOT
6	T-9 Committee (Bridge Preservation)— <i>Guide to Bridge Preservation Actions</i> —Jim Nelson, T-9 Chair, Iowa DOT
2:45 p.m.–3:15 p.m. Break	
3:15 p.m.–5:00 p.m.	
	PennDOT P3 Bridge Replacement—Tom Macioce, Pennsylvania DOT
7	T-10 Committee (Concrete Design)— <i>LRFD Bridge Design Specifications</i> : Section 5, Article 5.10.4.3 (WAI 199)—Kevin Western, T-10 Chair, Minnesota DOT
8	T-10 Committee (Concrete Design)— <i>LRFD Bridge Design Specifications</i> : Section 5, Various Articles (WAI 195A)—Kevin Western, T-10 Chair, Minnesota DOT
9	T-10 Committee (Concrete Design)/T-4 (Construction)— <i>LRFD Bridge Construction Specifications</i> : Section 10, Articles 10.3.2, 10.3.2.1 and 10.3.2.2 / <i>LRFD Bridge Design Specifications</i> : Section 5, Article 5.9.5.6.1 (WAI 197)—Kevin Western, T-10 Chair, Minnesota DOT



	TRB Update—Waseem Dekelbab, TRB
	FHWA Research Update—Ben Graybeal, FHWA
10	T-11 Committee (Research)—Anne Rearick, T-11 Chair, Indiana DOT
11	T-12 Committee (Structural Supports for Highway Signs, Luminaires, and Traffic Signals)— <i>LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals</i> : Section 3, Article C3.7 (WAI LRFD 14)—Sam Fallaha, T-12 Chair, Florida DOT
12	T-12 Committee (Structural Supports for Highway Signs, Luminaires, and Traffic Signals)— <i>Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals</i> : Section 5, Article 5.15.5 (WAI SLTS 05)—Sam Fallaha, T-12 Chair, Florida DOT
13	T-12 Committee (Structural Supports for Highway Signs, Luminaires, and Traffic Signals)— <i>LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals</i> : Section 6, Table 6.5.1-12 (WAI LRFD 28)—Sam Fallaha, T-12 Chair, Florida DOT
14	T-12 Committee (Structural Supports for Highway Signs, Luminaires, and Traffic Signals)— <i>LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals</i> : Section 14, Article 14.4.4.8 (WAI LRFD 09)—Sam Fallaha, T-12 Chair, Florida DOT

End of Day

Thursday, June 27, 2019

8:00 a.m.–9:45 a.m.

	Birmingham CBD Bridge Replacement Project—Tim Colquett, Alabama DOT; Lloyd Pitts, Volkert Engineering; Eric Johnson, Corven Engineering
15	T-13 Committee (Culverts)/T-5 Committee (Loads and Load Distribution)— <i>LRFD Bridge Design Specifications</i> : Section 3, Article 3.6.1.2.6a (WAI 19-01)—Jason Hastings, T-13 Chair, Delaware DOT
16	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 3, Article 3.6.1.2.6a (WAI 19-02)—Jason Hastings, T-13 Chair, Delaware DOT
17	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Articles C12.1, 12.6.4 and 12.16 (WAI 19-12)—Jason Hastings, T-13 Chair, Delaware DOT
18	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Articles 12.2, 12.6.9 and 12.16 (WAI 19-11)—Jason Hastings, T-13 Chair, Delaware DOT
19	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Articles 12.4.2.10, C12.7.2.1 and C12.7.2.7 (WAI 19-10)—Jason Hastings, T-13 Chair, Delaware DOT
20	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Article 12.5.4 (WAI 19-03)—Jason Hastings, T-13 Chair, Delaware DOT
21	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Article 12.12.3.5 (WAI 19-09)—Jason Hastings, T-13 Chair, Delaware DOT

22	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Article C12.12.3.5 (WAI 19-07)— Jason Hastings, T-13 Chair, Delaware DOT
23	T-13 Committee (Culverts)— <i>LRFD Bridge Design Specifications</i> : Section 12, Article 12.12.3.10.2b (WAI 19-06)— Jason Hastings, T-13 Chair, Delaware DOT
24	T-13 Committee (Culverts)/T-4 Committee (Construction)— <i>LRFD Bridge Construction Specifications</i> : Section 27, Article C27.6.1 (WAI 19-05)—Jason Hastings, T-13 Chair, Delaware DOT
25	T-13 Committee (Culverts)—Culvert and Storm Drain System Inspection Guide: Appendices A and B (WAI 19-13)— Jason Hastings, T-13 Chair, Delaware DOT
	Sunshine Bridge Emergency Repair—Zhengzheng (Jenny) Fu, Louisiana DOT
	Alaska DOT & PF Earthquake Response—Rich Pratt, Alaska DOT & PF
9:45 a.m.–10:15 a.m. Break	
10:15 a.m.–Noon	
26	T-14 Committee (Structural Steel Design)/T-10 Committee (Concrete Design)— <i>LRFD Bridge Design Specifications</i> : Section 4, Article 4.5.3.2.2b; Section 5, Articles C5.7.2.1 and 5.12.9.5.2; Section 6, Various Articles—Tom Macioce, T-14 Chair, Pennsylvania DOT
27	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Articles 6.3 and 6.8.2.2—Tom Macioce, T-14 Chair, Pennsylvania DOT
28	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Article 6.10.1.4—Tom Macioce, T-14 Chair, Pennsylvania DOT
29	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Articles 6.3 and 6.12.2.2.4—Tom Macioce, T-14 Chair, Pennsylvania DOT
30	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Articles 6.3, 6.13.2.9 and 6.13.6.1.3—Tom Macioce, T-14 Chair, Pennsylvania DOT
31	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Various Articles (1)—Tom Macioce, T-14 Chair, Pennsylvania DOT
32	T-14 Committee (Structural Steel Design)— <i>LRFD Bridge Design Specifications</i> : Section 6, Various Articles (2)—Tom Macioce, T-14 Chair, Pennsylvania DOT
33	T-14 Committee (Structural Steel Design)— <i>AASHTO/NSBA Steel Bridge Collaboration Guide: G4.1—Steel Bridge Fabrication QC/QA Guidelines</i> —Tom Macioce, T-14 Chair, Pennsylvania DOT
34	T-14 Committee (Structural Steel Design)— <i>AASHTO/NSBA Steel Bridge Collaboration Guide: S10.1—Steel Bridge Erection Guide Specification</i> —Tom Macioce, T-14 Chair, Pennsylvania DOT
35	T-14 Committee (Structural Steel Design)— <i>AASHTO/NSBA Steel Bridge Collaboration Guide: G13.1—Guidelines for Steel Girder Bridge Analysis</i> —Tom Macioce, T-14 Chair, Pennsylvania DOT



	Champ Clark Bridge Project—Dennis Heckman, Missouri DOT
36	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Design Specifications</i> : Section 3, Article 3.4.1—Tony Allen, T-15 Chair, Washington DOT
37	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Design Specifications</i> : Section 3, Articles 3.4.1 and 3.11.5.8.2—Tony Allen, T-15 Chair, Washington DOT
38	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Design Specifications</i> : Section 11, Various Articles (1)—Tony Allen, T-15 Chair, Washington DOT
39	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Design Specifications</i> : Section 11, Various Articles (2)—Tony Allen, T-15 Chair, Washington DOT
40	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Design Specifications</i> : Section 11, Articles 11.12.7.2 and 11.12.9—Tony Allen, T-15 Chair, Washington DOT
41	T-15 Committee (Substructures and Retaining Walls)— <i>LRFD Bridge Construction Specifications</i> : New Section 34; Section 7, Articles 7.5.5, 7.6.5 and 7.8—Tony Allen, T-15 Chair, Washington DOT
Noon–1:00 p.m. Lunch	
1:00 p.m.–2:30 p.m.	
	Mobile River Bridge—Pat Hickox, HDR
42	T-16 Committee (Timber Structures)— <i>LRFD Bridge Design Specifications</i> : Section 8, Various Articles—Tom Macioce, T-14 Chair, Pennsylvania DOT
	Global Benchmarking Program: Electrically Isolated Tendons in European Highway Structures—Kevin Western, Minnesota DOT
43	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clause 1.2.2 (R42)—Alex Bardow, T-17 Chair, Massachusetts DOT
44	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 1, 2 and 5, Various Locations (R26 & R46)—Alex Bardow, T-17 Chair, Massachusetts DOT
45	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clause 2, Various Locations (R36)—Alex Bardow, T-17 Chair, Massachusetts DOT
46	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 2, 3, 4, 5, 6, 7 and 12 (R16)—Alex Bardow, T-17 Chair, Massachusetts DOT
47	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 2, 3, 5, 6; Annexes D, K and M (R29)—Alex Bardow, T-17 Chair, Massachusetts DOT
48	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 3.4.8 and 3.7.3, Commentaries C-3.2.7, C-3.4.8 and C-3.7.3 (R40)—Alex Bardow, T-17 Chair, Massachusetts DOT

49	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 3, 4 and 5 (R34)— Alex Bardow, T-17 Chair, Massachusetts DOT
50	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 3, 4, 5, 6, 7 and 12, Various Locations (R37)— Alex Bardow, T-17 Chair, Massachusetts DOT
51	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses 5.12.1 and 5.12.2; Table 5.10 (R39)— Alex Bardow, T-17 Chair, Massachusetts DOT
52	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : CClause 5.21.5 (R31)— Alex Bardow, T-17 Chair, Massachusetts DOT
53	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clause 5.23.3 (R33)— Alex Bardow, T-17 Chair, Massachusetts DOT
54	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clause 6, Various Locations (R13)— Alex Bardow, T-17 Chair, Massachusetts DOT
55	T-17 Committee (Welding)— <i>D1.5 Bridge Welding Code</i> : Clauses K7.4 and C-K7.4 (R35)— Alex Bardow, T-17 Chair, Massachusetts DOT
2:30 p.m.–3:00 p.m. Break	
	Ballot Item Pulled
56	T-18 Committee (Bridge Management, Evaluation, and Rehabilitation)— <i>The Manual for Bridge Evaluation</i> : Section 6, Various Articles (1)— Matt Farrar, T-18 Chair, Idaho DT
57	T-18 Committee (Bridge Management, Evaluation, and Rehabilitation)— <i>The Manual for Bridge Evaluation</i> : Section 6, Various Articles (2)— Matt Farrar, T-18 Chair, Idaho DT
58	T-18 Committee (Bridge Management, Evaluation, and Rehabilitation)— <i>The Manual for Bridge Evaluation</i> : Appendix A, Example A1— Matt Farrar, T-18 Chair, Idaho DT
59	T-18 Committee (Bridge Management, Evaluation, and Rehabilitation)— <i>The Manual for Bridge Evaluation</i> : Appendix A, Example A7— Matt Farrar, T-18 Chair, Idaho DT
	Editorials—Tom Murphy, Modjeski & Masters
	Announcement of 2020 Committee on Bridges & Structures Meeting in Alabama—Dennis Heckman, Missouri DOT
	Closing—Carmen Swanwick, Chair, Utah DOT

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Segment erection for the I-59/I-20 bridge through the Central Business District of Birmingham, Ala.
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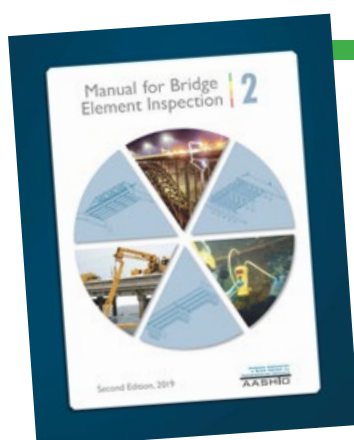
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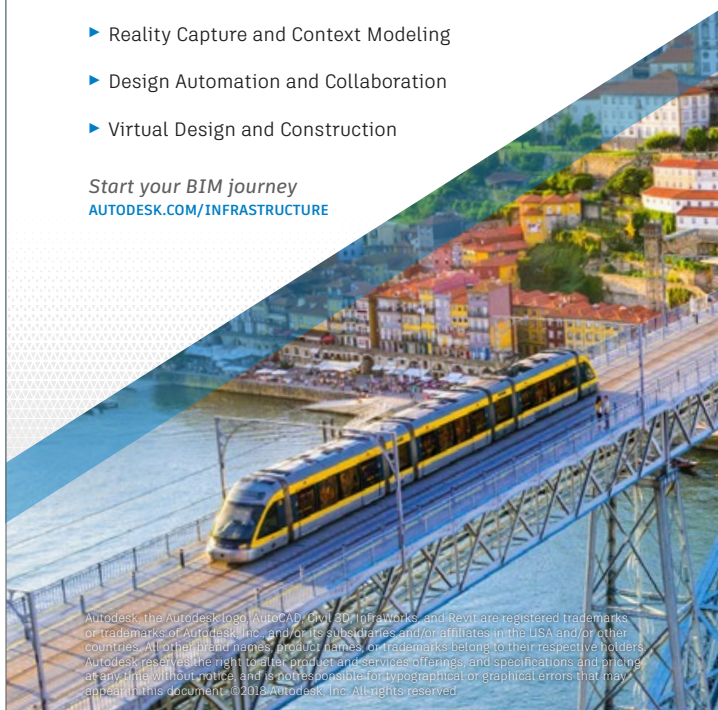
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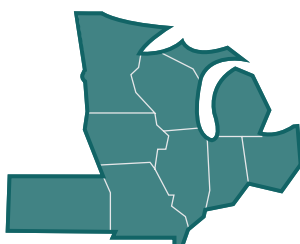
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Sessions	C.E. Hours	C.E. Hours Completed
Monday, June 24, 2019, 8:00 a.m.–Noon Morning Technical Sessions <ul style="list-style-type: none"> T-2 Bearings and Expansion Devices T-5 Loads and Loads Distribution T-8 Movable Bridges T-9 Bridge Preservation T-16 Timber Structures 	 4 4 4 4 4	
Monday, June 24, 2019, 1:00 p.m.–5:00 p.m. Afternoon Technical Sessions <ul style="list-style-type: none"> T-1 Bridge Security and Hazards T-3 Seismic T-10 Concrete Design T-12 Structural Supports T-19 Software and Technology 	 4 4 4 4 4	
Tuesday, June 25, 2019, 8:00 a.m.–Noon Morning Technical Sessions <ul style="list-style-type: none"> T-6 Fiber Reinforced Polymer Composites T-13 Culverts T-15 Substructures and Retaining Walls T-17 Metals Fabrication T-18 Bridge Management, Evaluation, and Rehabilitation 	 4 4 4 4 4	
Tuesday, June 25, 2019, 1:00 p.m.–5:00 p.m. Afternoon Technical Sessions <ul style="list-style-type: none"> T-1 Bridge Security and Hazards T-4 Construction T-7 Guardrail and Bridge Rail T-11 Research T-14 Structural Steel Design T-20 Tunnels 	 4 4 4 4 4	
Wednesday, June 26, 2019, 8:00 a.m.–Noon State Bridge Engineers Meeting	4	
Wednesday, June 26, 2019, 1:00 p.m.–5:00 p.m. General Session	4	
Thursday, June 27, 2019—8:00 a.m.–Noon General Session	4	
Thursday, June 27, 2019—1:00 p.m.–5:00 p.m. General Session	4	

Signature of Attendee _____

Date _____

Total PDH Hours
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