About the Conference

Auburn University’s Civil Engineering Department and the Program Committee have designed the 63rd Annual Alabama Transportation Conference for federal and state highway personnel, road building contractors, general contractors, heavy construction contractors, utility contractors, county engineers, consulting engineers, construction material vendors, researchers, professional society representatives, and university faculty members. It provides an opportunity for these individuals to share innovative advances in transportation planning, design, construction, operations, and maintenance.

Technical sessions, sit-down luncheons, a welcome reception, and breaks will be provided to create a forum for the exchange of ideas between transportation engineering and construction professions. The conference will also include a Trade Exhibit with many exhibitors that will enhance learning and provide additional networking opportunities for all participants.

Location and Schedule

The conference will be held at the Renaissance Montgomery Hotel & Spa at The Convention Center, located at 201 Tallapoosa Street, Montgomery, Alabama. Final registration and check-in will be held from 8:30 a.m. to 10:30 a.m. on the Terrace Level on Tuesday, February 11, 2020. The Opening General Session begins at 10:30 a.m. in the Performing Arts Center. The conference will adjourn Wednesday afternoon, February 12, 2020 at 3:30 p.m.

Registration and Fee

All persons attending the conference must register. The registration fee of $225 includes all sessions, program materials, refreshment breaks, Trade Exhibit, Welcome Reception and luncheons. Student and ALDOT retiree registration is $50. To register, please complete the attached registration form and return it by mail to the address indicated, by FAX 334-844-5715, or by calling the Alabama Transportation Assistance Program at 800-446-0382 or 334-844-4370. Online registration is available at www.eng.auburn.edu/atap.

Accommodations

Participants are responsible for making their own lodging arrangements. A block of rooms have been reserved at the conference hotel. The room block is listed under 63rd Annual Transportation Room Block. Rate: $149 plus taxes. Call 877-545-0311 or visit https://aub.ie/accommodations-atc2020. The last day to book at this rate is January 13, 2020.
Cancellation Policy

Due to commitments to our speakers and facilities, the registration fee is non-refundable if a registrant withdraws less than five business days before the program starts. Substitutions may be made at any time, please notify us in advance if possible. No-shows will be liable for the entire conference fee. Auburn University reserves the right to cancel any program due to insufficient registrations. This decision is usually made no later than five business days prior to the event. If a program is canceled for any reason, all fees will be refunded. Auburn University will not be responsible for travel expenses incurred by a registrant as the result of a canceled program.

Professional Development Hours

Participants in this conference will be able to attend up to nine (9) hours of technical programs. Auburn University makes every effort to ensure that its technical programs conform to the requirements of the State of Alabama Board of Licensure for Professional Engineers and Land Surveyors for the award of Professional Development Hours to support the annual renewal of professional licensure.

Participants with Disabilities

It is the policy of Auburn University to provide accessibility to its programs and reasonable accommodations for persons defined as having disabilities under the Americans with Disabilities Act of 1990. Please contact us at least two weeks prior to the program so that proper consideration can be given to any special needs.

Trade Exhibit

The Trade Exhibit will be held in Exhibit Hall C, where all refreshment breaks will be served. Exhibitors from a wide range of transportation-related fields are expected to attend. The exhibit will be open from 8:30 a.m. to noon and 1:30 to 6:30 p.m. on Tuesday, February 11, and on Wednesday, February 12, from 7:30 a.m. to noon and from 1:30 to 3:30 p.m.

A list of exhibitors will be included in the copy of the conference brochure that will be distributed at the registration and check-in table.

Prospective exhibitors may register for an exhibit booth at https://aub.ie/exhibitors-atc2020.

Program Committee

**Alabama Department of Transportation**
- John R. Cooper
- George Conner
- William Adams
- Ed Austin
- John Eagerton
- Stacey Glass
- Clay McBrien
- Ed Phillips
- Phillip Shamburger
- John-Michael Walker

**Auburn University**
- Brian Anderson
- Ben Bowers
- Mike Perez
- Anton Schindler
- Hugo Zhou
- Justin Marshall
- Rod Turochy
- Addie Balch
- Veronica Ramirez
- Kim Brumbeloe
- Carla Story

**Federal Highway Administration**
- Mark Bartlett and Kristy Harris
- Montgomery, Alabama

**Alabama Section, ASCE**
- Brad Williams, Montgomery, Alabama

**Association of County Engineers of Alabama**
- Justin Barfield, Hartford, Alabama

**Institute of Transportation Engineers, Alabama Section**
- Blair Perry, Birmingham, Alabama

**American Council of Engineering Companies of Alabama**
- Reneé Casillas, Montgomery, Alabama

**Alabama Road Builders Association**
- Tom Layfield, Montgomery, Alabama

**Alabama Asphalt Pavement Association**
- Mel Monk, Montgomery, Alabama

**Alabama Concrete Industries Association**
- John Sorrell, Montgomery, Alabama

**Alabama Bridge Contractors Association**
- Clay McInnis, Montgomery, Alabama

**Precast/Pre-stressed Concrete Institute, Gulf South Region**
- Dan Eckenrode, Gulfport, Mississippi

2020 Conference Outline

**Tuesday, February 11, 2020**
- 8:30 a.m.: Opening General Session – Trade Exhibit Open
- 10:30 a.m.: Plenary Technical Session
  - Presiding: Dr. Rod Turochy, Professor and HRC Director, Department of Civil Engineering, Auburn University, Auburn, AL
- 12:10 p.m.: Governor's Luncheon – Exhibit Hall B
  - Presiding: Dr. Steve Taylor
  - Associate Dean for Research
  - Samuel Ginn College of Engineering, Auburn University, Auburn, AL
- 6:30 p.m.: Adjourn and Trade Exhibit Closes

**Wednesday, February 12, 2020**
- 7:30 a.m.: Trade Exhibit Opens
- 8:30 a.m.: Plenary Technical Session
- 10:00 a.m.: Concurrent Technical Sessions
- 10:30 a.m.: Concurrent Technical Sessions
- 12:10 p.m.: Transportation Director's Luncheon – Exhibit Hall B
  - Presiding: Dr. Rod Turochy, Professor and Director of the Alabama Transportation Assistance Program, Auburn University, Auburn, AL
- 1:30 p.m.: Concurrent Technical Sessions
- 3:30 p.m.: Conference Ends, Trade Exhibit Closes
### Roadway Design
**Meeting Room: Alabama A**
- **Presiding:** Brad Williams  
  President, ASCE Alabama Section

**Updates and Changes to ALDOT's Standard Drawings**
- David Welch  
  ALDOT, Design Bureau, Montgomery, AL

**Part-Time Shoulder Use**
- George Merritt  
  FHWA, Atlanta, GA

**Managing Risk in Design**
- George Merritt  
  FHWA, Atlanta, GA

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### Asphalt Pavements
**Meeting Room: Alabama B**
- **Presiding:** Mel Monk, Executive Director  
  Alabama Asphalt Pavement Association

**Balanced Mix Design: What is it?**
- Randy West, Ph.D.  
  National Center for Asphalt Technology
  Auburn University, Auburn, AL

**Balanced Mix Design for County Roads**
- Justin Barfield  
  Geneva County Highway Department, Harford, AL
  Chance Armstead  
  Materials & Test Bureau, ALDOT, Montgomery, AL

**The 3 P's: Pavement Preservation Policy**
- Mark Waits  
  ALDOT, Maintenance Bureau, Montgomery, AL

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### Construction
**Meeting Room: Performing Arts Center**
- **Presiding:** Skip Powe, State Construction Engineer  
  ALDOT, Montgomery, AL

**Construction of Alabama's First Steel Box Girder Bridge in Tuscaloosa**
- Kevin Kane and Trey Ogle  
  Brasfield and Gorrie, LLC, Birmingham, AL

**Construction of the Mentone Arch Bridge**
- Chris Brown  
  Wright Brothers Construction, Charleston, TN

**Georgia DOT's Experience with Public Private Partnerships**
- Steven Lively  
  Georgia DOT, Atlanta, GA

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### Highway Safety
**Meeting Room: Alabama A**
- **Presiding:** Steve Walker  
  State Design Engineer, ALDOT, Montgomery, AL

**Standardized Operating Procedure (SOP) for Determining Speed Limit(s) in Work Zones**
- Andrew Harry  
  ALDOT, Maintenance Bureau, Montgomery, AL

**MnDOT’s Restricted Crossing U-Turn Intersection as a Proven Safety Countermeasure**
- Gwen Mei  
  Minnesota DOT, St. Paul, MN

**Guidelines for Integrating Safety and Cost-Effectiveness into Resurfacing, Restoration, and Rehabilitation Projects**
- Richard Coakley  
  JACOBS, Atlanta, GA

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### Optimization, Preservation & Operation
**Meeting Room: Alabama B**
- **Presiding:** Stacey Glass  
  State Maintenance Engineer, ALDOT  
  Montgomery, AL

**Managing University of Alabama Game Day Traffic Operations**
- Jonathan Mills, ALDOT, Tuscaloosa, AL
  Jason Taylor, Arcadis, Tuscaloosa, AL

**Rehabilitation of Deteriorated Timber Piles using Fiber Reinforced Polymer (FRP) Composites**
- Vijaya (VJ) Gopu  
  Louisiana Transportation Research Center, Baton Rouge, LA

**Portable Bridge Weigh-in-Motion**
- Eric Christie  
  ALDOT, Maintenance Bureau, Montgomery, AL

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### Bridges
**Meeting Room: Performing Arts Center**
- **Presiding:** Tim Colquett  
  ALDOT, State Bridge Engineer, Montgomery, AL

**Design of the Birmingham Central Business District Segmental Bridge**
- Eric Johnson  
  Corven Engineering, Inc., Tallahassee, FL

**Bridge Information Modeling from Design through Construction**
- Jerry Pfuntner  
  Finley Engineering Group, Tallahassee, FL

**S-770 Over Hanging Rock Creek—SCDOT’s 1st Use of UHPC and NEXT-D Beams**
- Terry Koons  
  South Carolina DOT, Columbia, SC
Wednesday, February 12
10:30 a.m. to 12:00 p.m.

Transportation Stormwater Management
Meeting Room: Alabama A
Presiding: Wade Henry
Assistant Bureau Chief
ALDOT, Preliminary Engineering, Montgomery, AL

Continuing ALDOT's MS4 Success Under a New Permit
Scott Rogers, Ph.D.
ALDOT, Design Bureau, Montgomery, AL

Ten Years of Research at the AU-Erosion and Sediment Control Testing Facility
Michael Perez, Ph.D.
Department of Civil Engineering, Auburn University, Auburn, AL

Muddy 98—a Stormwater Success Story
Barry Fagan
Volkert, Inc., Montgomery, AL

City and County Engineering
Meeting Room: Alabama B
Presiding: Justin Barfield
President, Association of County Engineers of AL

ATRP-2 and RAA Annual Grant Program
Brad Lindsay
ALDOT, Local Transportation Bureau, Montgomery, AL

Safe Transportation for Every Pedestrian
Jim Meads
Sain Associates, Inc., Birmingham, AL

Development of Local Road Safety Plans in Alabama
Jerry Roche and Hillary Is brands
FHWA, Washington, DC

Geo Site Investigation: The Future is Now!
Meeting Room: Performing Arts Center
Presiding: Kaye Chancellor Davis
State Geotechnical Engineer
ALDOT, Montgomery, AL

Communicating you’re a Game: Managing Risk Using 3D Visualization of Subsurface Data
Scott Anderson, Ph.D.
BGC Engineering Inc., Golden, CO
Silas Nichols, Principal Geotechnical Engineer
FHWA-US DOT, Washington D.C.

Seeing Below the Surface: Site Characterization Using Geophysics
Jack Montgomery, Ph.D.
Department of Civil Engineering, Auburn University, Auburn, AL

Wednesday, February 12
1:30 to 3:00 p.m.

Concrete Solutions
Meeting Room: Alabama A
Presiding: John Sorrell
President, Alabama Concrete Industries Association

Portland Limestone Cements
Wayne Wilson
Holcim (US), Inc., Suwanee, GA

Innovative Roller-Compacted Concrete Pavement Technologies
Matt Music
Andale Construction, Wichita, KS

Importance of Curing Concrete
Anton Schindler, Ph.D.
Department of Civil Engineering, Auburn University, Auburn, AL

Multimodal and Emerging Transportation
Meeting Room: Alabama B
Presiding: Blair Perry
President, Alabama Section ITE

Freight, Emergency Vehicles, and Complete Streets: Strategies for Co-Existence
Alison Conway, Ph.D.
Department of Civil Engineering, City College of New York, NY

Engineering the Future of Mobility
Mike Sewell
Gresham Smith, Louisville, KY

West Central Region Connected Vehicle Pilot Deployment
Alex Hainan, Ph.D., Department of Civil, Construction, and Environmental Eng., University of Alabama, Tuscaloosa, AL

Transportation Funding
Meeting Room: Performing Arts Center
Presiding: Don Arkle
Chief Engineer, ALDOT, Montgomery, AL

The Rebuild Alabama Act
Ed Austin
ALDOT, Administrative Office, Montgomery, AL

Rebuild Alabama: The County Journey
Richie Beyer, Elmore County, Wetumpka, AL
Josh Harvill, Chambers County, Lafayette, AL

ALDOT Funding Outlook
Don Arkle
ALDOT, Administrative Office, Montgomery, AL