About the Conference

Auburn's Civil Engineering Department and the Program Committee have designed the Fifty-Third Annual 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, engineering design, and construction.

The conference presents technical presentations with discussion-oriented workshops to provide a forum for the exchange of ideas within the highway engineering and construction professions. The sponsorship of the annual conference is indicative of the broad cross-section of interest in the programs of this two-day continuing education event.

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. in the Main Lobby on Monday, February 22, 2010. The Opening General Session begins at 10:30 a.m. in Performing Arts Center on the second floor. The conference will adjourn Tuesday afternoon, February 23, 2010.

Registration and Fee

All persons attending the conference must register. The registration fee of $200 includes all sessions, program materials, refreshment breaks, and luncheons. Additional luncheon tickets are available at the registration desk. Student and ALDOT RETIREE registration will be $50.

To register, please complete the attached registration form and return it to the address indicated, or call us at (800) 446-0382, (334) 844-4370, or FAX (334) 844-5715. On-line registration is available at www.engce.auburn.edu.

Accommodations

Participants are responsible for making their own lodging arrangements. A block of rooms have been reserved at the conference hotel.
Cancellation Policy

Due to commitments to our speakers and facilities, the registration fee is not refundable if a registrant withdraws less than five business days before the program. 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.

Continuing Education

Participants in this conference will be able to attend up to eight and one half (8 1/2) 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 registration.

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.

Program Committee

Alabama Department of Transportation (ALDOT)
Joe McInnes          Ronnie Baldwin
Don Vaughn            Maxine Wheeler
Don Arkle             Buddy Black
Rex Bush              Bob Jilla
Lamar Woodham         Ed Phillips
Mike Harper           Jeff Brown
John Eagerton         George Conner
Larry Lockett         Terry McDuffie
Ron Green             William Adams
Tim Barnett
Auburn University
Brian Bowman          Robert Barnes
Larry Sellers          Bob Vecellio
David Timm            Rod Turochy
Wesley Zech            Anton Schindler

Federal Highway Administration
Mark Bartlett and Robert King, Montgomery, Alabama

Alabama Road Builders Association
Billy Norrell, Montgomery, Alabama

Alabama Asphalt Pavement Association
Mel Monk, Montgomery, Alabama

Alabama Concrete Industries Association
John Sorrell, Montgomery, Alabama

Association of County Engineers of Alabama
Tim Graves, Birmingham, AL

Institute of Transportation Engineers, Alabama Section
Dennis Dickey, Birmingham, AL

American Concrete Pavement Association, Southeast Chapter
Robert Taylor, Montgomery, Alabama

American Council of Engineering Companies of Alabama
Renee Castillas, Montgomery, Alabama

Bridge Construction Association of Alabama
Alabama Concrete Pipe Association
Fred Crawford, Montgomery, Alabama

Alabama Section, ASCE
Lawren Pratt, Birmingham, AL

2010 Conference Outline

Monday, February 22, 2010

8:30 a.m.            Registration Opens
10:30 a.m.            Opening General Session - Performing Arts Center

Presiding:            Dr. Anton K. Schindler, HRC Director and Associate Professor Department of Civil Engineering, Auburn University, Auburn, AL.

Opening Remarks
Transportation Policy in the United States
Victor Mendez, Administrator, Federal Highway Administration, Washington, D.C.

Role of the Alabama State Port Authority in the Southeastern Transportation Network
Jimmy Lyons, Director and CEO, Alabama State Port Authority, Mobile, AL.

12:00 Noon            Highway Director’s Luncheon

Presiding:            Dr. J. Michael Stallings, Head and Professor, Department of Civil Engineering, Auburn University, Auburn, AL.

Speaker:              Mr. Joe McInnes, Director, Alabama Department of Transportation, Montgomery, AL.

1:30 to 3:00 p.m.        Concurrent Technical Sessions
3:00 p.m.                Break
3:30 to 5:00 p.m.        Concurrent Technical Sessions
5:00 p.m.                Adjourn

Tuesday, February 23, 2010

8:00 to 9:30 a.m.        Concurrent Technical Sessions
9:30 a.m.                Break
10:00 to 11:30 a.m.      Concurrent Technical Sessions
11:30 a.m.               Informal Buffet (No Speaker)
1:00 p.m.                Adjourn
Technical Sessions— Monday, February 22, 2010

1:30 to 3:00 p.m.
Freight and Funding
Meeting Room: Alabama A

Presiding: Mike Harper, Assistant Chief Engineer, Operations, ALDOT, Montgomery, AL.

1:30 p.m. State Transportation Funding. Bill Flowers, ALDOT, Montgomery, AL.

2:00 p.m. Freight in the Southeast. Bruce Lambert, International Trade and Transportation Studies Institute, New Orleans, LA.

2:30 p.m. The U.S. Transportation Market: What Can Public-Private Partnerships Do For You? Vic Poteat, PBS&J, Orlando, FL.

Bridges
Meeting Room: Alabama B

Presiding: Robert King, Division Structural Engineer, FHWA, Montgomery, AL.

1:30 p.m. New Top-Down Bridge Construction Method Used on US-17 in North Carolina Elie Hornal, Flatiron Construction Corp., Lafayette, CO.

2:00 p.m. Impact of Seismic Design Requirements on Bridges in Alabama. Justin Marshall, Civil Engineering Department, Auburn University, Auburn, AL.

2:30 p.m. Bridge Replacement in Little River Canyon National Preserve. Jonathan Campbell, ALDOT, Guntersville, AL.

Ethics for You and Me
Meeting Room: Alabama CDE

Presiding: Lawren Pratt, ASCE Alabama Section President, Birmingham, AL.

1:30 p.m. Adding Corporate Value through Business Ethics: Design and Implementation. Dianne Irby, KBR, Mobile, AL and Bob Gibson, KBR, Houston, TX.

2:00 p.m. Engineering Ethics for the Professional Engineer. Alicia Rudolph, Volkert, Inc., Birmingham, AL.

2:30 p.m. Rational Integrity: The Place of Philosophical Ethics in Engineering Education. Kalynne Pudner, Department of Philosophy, Auburn University, AL.

3:30 to 5:00 p.m.
Asphalt Pavements
Meeting Room: Alabama A

Presiding: Mei Monk, Executive Director, Alabama Asphalt Pavement Association, Montgomery, AL.

3:30 p.m. Thermal Segregation Research. Don Watson, National Center for Asphalt Technology, Auburn, AL.

4:00 p.m. Recalibration of the Asphalt Layer Coefficient. David Timm, Civil Engineering Department, Auburn University, Auburn, AL.

4:30 p.m. Findings from the NCAT Pavement Test Track. Buzz Powell, National Center for Asphalt Technology, Auburn, AL.

Environmental
Meeting Room: Alabama B

Presiding: Jeff Bennefield, Road Construction Engineer, ALDOT, Montgomery, AL.

3:30 p.m. ALDOT’s Environmental Program-Successes and Areas that Need Improvement: External Projects. Barry Fagan, ALDOT, Construction Bureau, Montgomery, AL.

4:00 p.m. Invasive Species in South Alabama – Cogon Grass. Howard Peavey, ALDOT Senior Agronomist, Montgomery, AL.

4:30 p.m. Coliseum Boulevard Plume Remediation. Ashley Cousins, Environmental Strategies & Solutions, LLC, Montgomery, AL.

Transportation Planning and Assistance
Meeting Room: Alabama CDE

Presiding: Tim Graves, Etowah County Engineer and President, Association of County Engineers of Alabama, Gadsden, AL.

3:30 p.m. Alabama’s First Implementation of the Cube Land Model. Michael J. Clay, Community Planning, School of Architecture, Auburn University, Auburn, AL.

4:00 p.m. Safe Routes to School is Working in Alabama. Bill Luckerson, Multimodal Bureau, ALDOT, Montgomery, AL.

4:30 p.m. Evaluation of the Benefits of Alabama Service and Assistance Patrol. Rod Turoczy, Civil Engineering Department, Auburn University, Auburn, AL.

Technical Sessions— Tuesday, February 23, 2010

8:00 to 9:30 a.m.
Transportation - New Trends/Old Solutions
Meeting Room: Alabama A

Presiding: Dennis Dickey, President, Alabama Section - Institute of Transportation Engineers, Birmingham, AL.

8:00 a.m. Design and Computer Modeling of a Five Legged-Single Lane Urban Roundabout. Joe Ruffer, Mobile County Engineer and James Foster, Mobile County Traffic Manager.

8:30 a.m. Guardian Height and Block Adjustments. William D. Bryson, President, Bryson, LLC, Easton, PA.

9:00 a.m. Improving Safety at Horizontal Curves. Frank Julian, FHWA Resource Center, Safety and Design Team, Atlanta, GA

Geotechnical
Meeting Room: Alabama B

Presiding: Lyndi Blackburn, Assistant Materials and Tests Engineer, ALDOT, Montgomery, AL.

8:00 a.m. Thermal Integrity Testing of Drilled Shaft Concrete. Gray Mullins, University of South Florida, Tampa, FL.

8:30 a.m. Geopiers as a Ground Improvement Technique. Gerry Kehler, Geopier Foundation Company, Inc., Marietta, GA.

9:00 a.m. Pileless Bridge Abutments. Warren Schlatter, Defiance County Engineer, Defiance, OH.

Erosion Control
Meeting Room: CDE

Presiding: Buddy Cox, Geotechnical Engineer, ALDOT, Montgomery, AL.

8:00 a.m. Changes in Channel Morphology Along the Tombigbee River. Natasha Pollen-Bankhead, USDA-ARS, National Sedimentation Laboratory, Oxford, MS.

8:30 a.m. Design and Construction of a Large-Scale Erosion and Sediment Control Testing Facility in Alabama. Wesley Donald, Civil Engineering Department, Auburn University, Auburn, AL.

9:00 a.m. Erosion Control Measures and Vegetation Establishment on Disturbed Slopes in Alabama. Mark Dougherty, Biosystems Engineering, Auburn University, Auburn, AL.
Tuesday, February 23, 2010

10:00 to 11:30 a.m.

Construction

Meeting Room: Alabama A

Presiding: Rex Bush, Assistant Chief Engineer, Pre-Construction, ALDOT, Montgomery, AL

10:00 a.m. Sinkhole Repair on I-59/20, Scottie Cole, Alabaster, Birmingham, AL

10:30 a.m. Experiences with the Use of SCC in Drilled Shaft Construction, Dan Brown, Dan Brown and Associates, Sequatchie, TN

11:00 a.m. Use of Innovative Rock Blasting Techniques on I-20, Steve Wright, Wright Brothers Construction Company, Inc., Charleston, TN

Livable Communities

Meeting Room: Alabama B

Presiding: Don Arkle, Assistant Chief Engineer, Policy and Planning, ALDOT, Montgomery, AL

10:00 a.m. Gulf Coast Study: Impacts of Climate Change on Transportation Infrastructure, Bob Ritter, FHWA, Washington, DC

10:30 a.m. Sustainable Communities, K. Lynn Berry, FHWA, Atlanta, GA

11:00 a.m. Prattville’s Livable Community Strategy, Dennis Madsen, Urban Collage, Inc., Atlanta, GA and Becky White, Sain Associates, Inc., Birmingham, AL

Hydraulics and Hydrology

Meeting Room: Alabama CDE

Presiding: Jim Barrentine, Assistant State Maintenance Engineer, ALDOT, Montgomery, AL

10:00 a.m. Use of two-dimensional flow prediction models on Alabama projects, John Curry, Hydro-Engineering Solutions, LLC, Auburn, AL

10:30 a.m. Addressing Scour on New and Existing Projects, Aleycia Hall, ALDOT, Montgomery, AL

11:00 p.m. Use of rainfall distribution and rainfall statistics for highway projects, Xing Fang, Civil Engineering Department, Auburn University, Auburn, AL

PARKING

HOTEL: Renaissance Montgomery Hotel and Spa Parking Deck

The Renaissance Montgomery Hotel and Spa at the Convention Center occupies the entire block bordered by Tallapoosa Street (front), Commerce Street, Moulton Street and Bibb Street. Parking deck entrance is from the Bibb Street side of the hotel. There are 600 parking places (including valet).

Parking deck entrances are into the Hotel Second Floor and the Convention Center first and second floors. The elevators are different and marked.

Rates:
- Self Park: 0:30 min. Free; 2 to 6 hours $6.00; 6 to 10 hours $10.00; Overnight $10.00
- Valet Parking: 0 to 10 hours; $10.00; Overnight $16.00

1. MATS Parking Deck
   Located at the corner of Moulton and Bell Street.
   Hours & Rates:
   - Monday-Friday 6:30 a.m. to 6:00 p.m. – $1.00 per hour.
   - Monday-Friday 6:00 p.m. to 6:30 a.m. – no charge.
   - Friday 6:00 p.m. to Monday 6:30 p.m. (Weekends) – no charge.
   - MATS (Montgomery Area Transportation System) 334-241-2203

2. Biscuits / Riverwalk Stadium Parking
   Open daily with no attendant and no charge.
   Game Days: $4.00
   Operated by the Montgomery Kiwanis Club (334-834-7929)

3. Park-ette Parking Area 334-265-7215
   Located across Bibb Street between Lee and Commerce.
   Free Parking during the week.
   Please note: the permit only lot behind/southeast of this lot is not available without a permit for 24 hours per day, seven days a week.

4. Embassy Suites Hotel
   Located across Tallapoosa Street from the Renaissance Hotel.
   Rates: $5.00 per day.
   Parking charges apply based on demand.

5. Montgomery Chamber of Commerce Visitors Bureau
   Located off Water Street under the train station.
   Monday – Friday 6:00 a.m. to 5:00 p.m. parking with a permit only.
   No charge for Evenings, Weekends and Holidays

6. Commerce Street / Tallapoosa Street Lot
   Located across from the front entrance to the hotel at the Northwest corner of Tallapoosa and Commerce Streets.
   Monday – Friday 6:00 a.m. to 5:00 p.m. parking with a permit only.
   No charge for Evenings and weekends

Street Parking:

- Meters apply Monday through Friday from 8 a.m. to 6:00 p.m.
- No charge for Evenings, Weekends and Holidays

Parking charges apply based on demand.

Please Note: Due to the rapidly developing renovation projects throughout Downtown Montgomery, there may be changes to this information that is beyond our control.