

# *Transportation Infrastructure Driving the Economy*



**LTC**  
**2018**

## **LOUISIANA TRANSPORTATION CONFERENCE**

**February 25-28, 2018**

**Raising Cane's River Center, Baton Rouge**

**[www.ltrc.lsu.edu/ltc\\_18](http://www.ltrc.lsu.edu/ltc_18)**

## CONFERENCE HOSTS



## THANK YOU TO OUR CONFERENCE SPONSORS

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Special thanks goes to GEC, Inc.,  
for coordinating the  
industry exhibits/reception.

Special thanks to the following companies for  
sponsoring the Sunday evening Opening Reception:  
Ergon Asphalt and Emulsions,  
Highway Graphics, LLC, and Lion Oil Company

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# Let's Stay Connected!

## River Center Wi-Fi

LTC Attendees may access wi-fi with the following credentials:  
 Network name: LTC\_Guest  
 Password: ltc2018

## LTC Social Media

Follow Louisiana Transportation Research Center on Facebook ([www.facebook.com/LTRCUpdates](http://www.facebook.com/LTRCUpdates)) or Twitter (@LTRC\_Updates). We will be using #LTC2018 for real-time conference news and photos.

## LTC Mobile Site

Visit [www.ltrc.lsu.edu/ltc\\_18/mobile](http://www.ltrc.lsu.edu/ltc_18/mobile) on your mobile device to easily access the conference schedule, exhibitor maps, sponsors, and other information. You can also scan the QR code to access the link.



You can add a shortcut to the mobile site to your homescreen. Be sure to open the link in your mobile device's browser and follow directions below:

### ANDROID INSTRUCTIONS

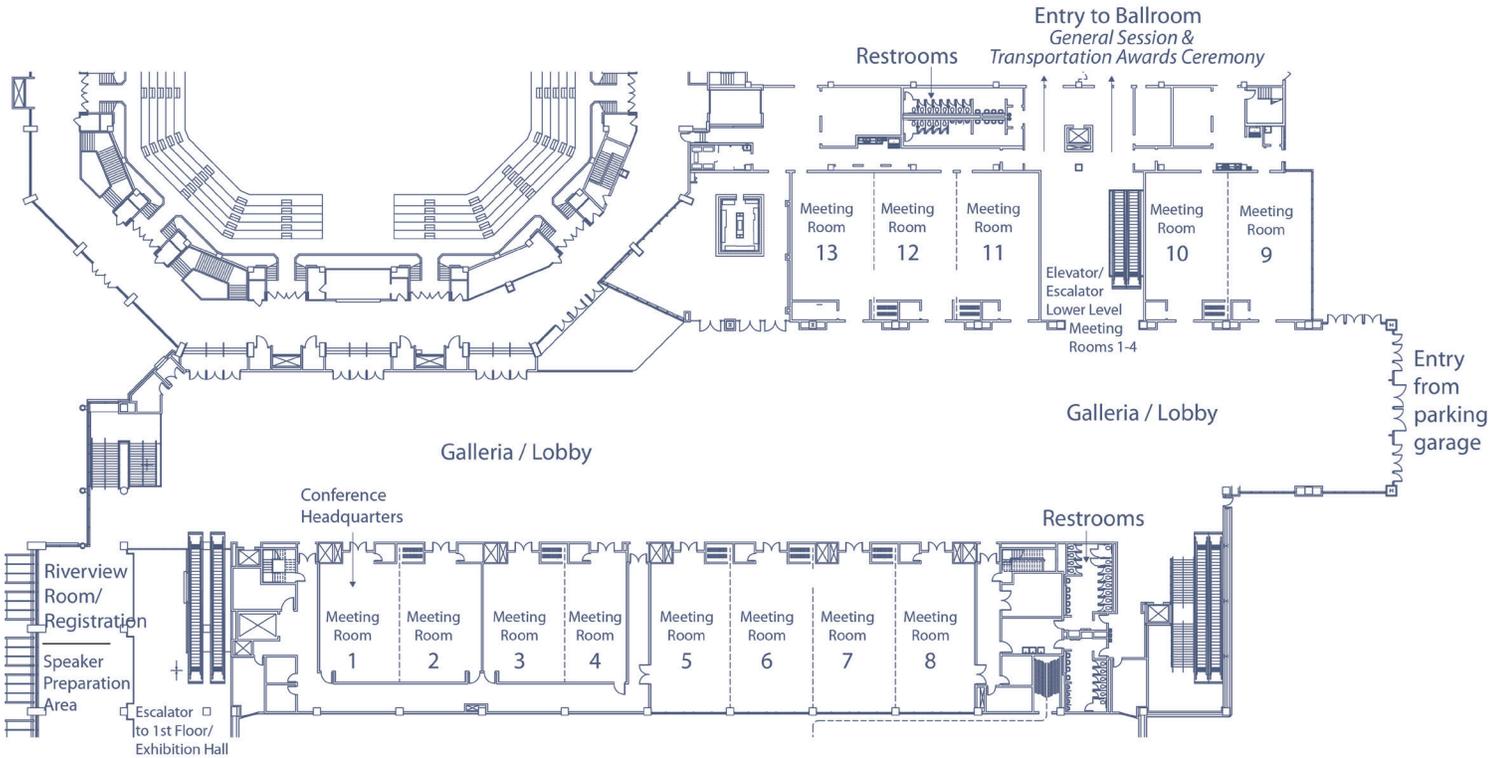
- Go to [www.ltrc.lsu.edu/ltc\\_18/mobile](http://www.ltrc.lsu.edu/ltc_18/mobile) in Firefox for Android.
- Press the Menu button (either below the screen on some devices or at the top-right corner of the browser), then tap on Page.
- Tap Add to Home Screen.

### IPHONE INSTRUCTIONS

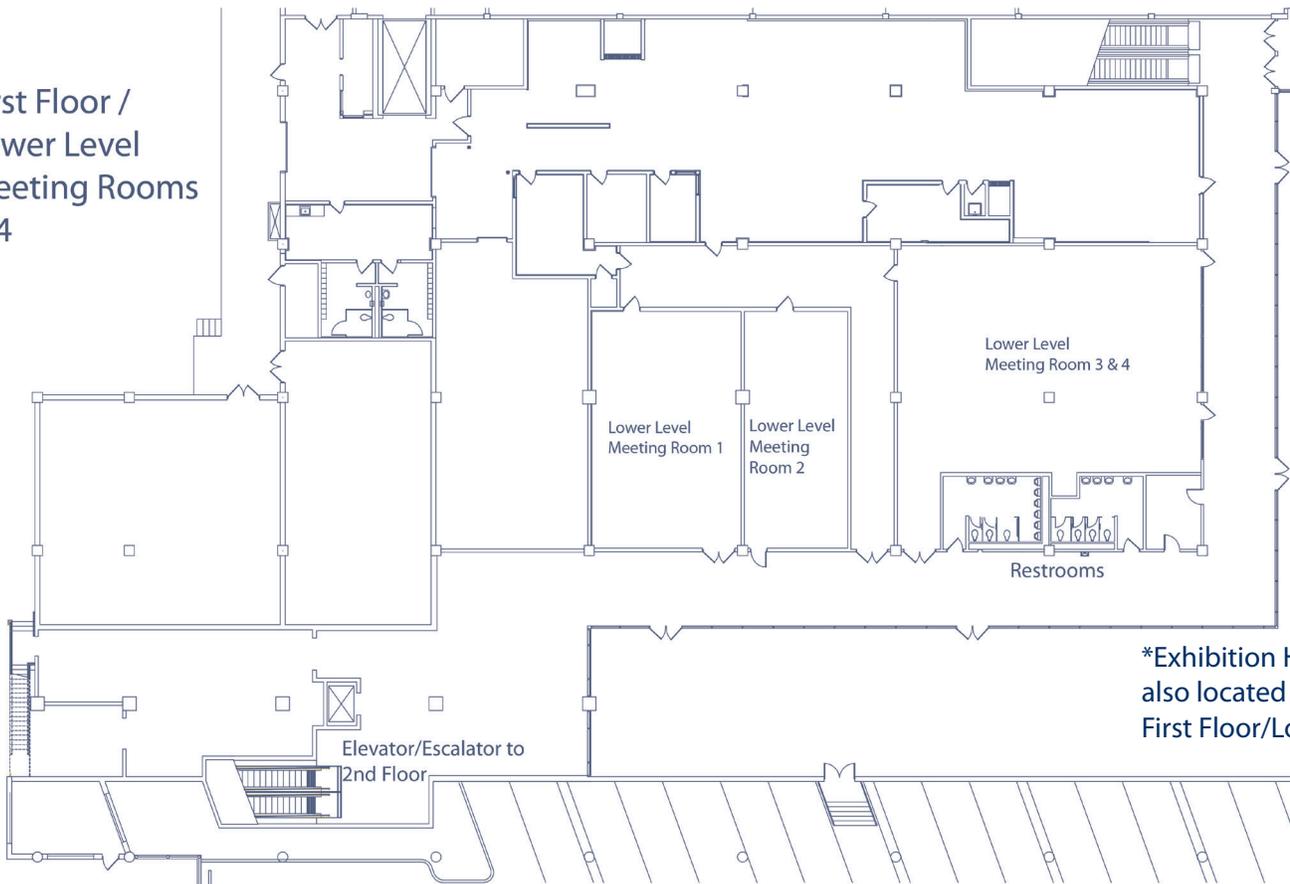
- Go to [www.ltrc.lsu.edu/ltc\\_18/mobile](http://www.ltrc.lsu.edu/ltc_18/mobile) in Safari. Tap the "Share" button at the middle of the bottom bar.
- Scroll right on the bottom bar and tap Add to Home Screen.
- Type in a new name for your shortcut if you wish and tap Add.

# River Center Maps

## Second Floor / Level 2



## First Floor / Lower Level Meeting Rooms 1-4



# Conference Information

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## Conference Headquarters

The 2018 Louisiana Transportation Conference Headquarters is located in Meeting Room 1 on the second floor (Level 2). The Conference Headquarters will be open Sunday, 2 p.m. – 6 p.m.; Monday and Tuesday, 7 a.m. – 5 p.m.; and Wednesday, 7 a.m. – 4 p.m. If you have special needs during the conference, visit the Conference Headquarters and every effort will be made to accommodate your request.

## Downtown Dining Options

Please note that Monday and Wednesday lunches are on your own. Tuesday lunch will be provided in the Exhibition Hall.

The Belle of Baton Rouge Hotel will serve a lunch buffet in The Atrium on Monday, 2/26, beginning at 11:15 a.m. The buffet will cost \$13 plus tax and gratuity. In addition, a map of restaurants within walking distance is provided on page 4 courtesy of Visit Baton Rouge.

## Parking Procedures

- Park in either the East or West garage. Garage entrances are on St. Louis Street, north of St. Louis/Government St. intersection.
- You may enter/exit garage as often as necessary by following the procedures below.

### Procedures for Driver:

- 1—Take ticket from machine each time you enter garage.
  - 2—Report to Parking Validation (Riverview Room, registration area, Level 2) to turn in ticket and receive a garage exit pass any time before departure from conference.
    - A pass is only good for that day.
    - Each time you exit the garage and return the same day, you must repeat this procedure.
- The Following Step Is Very Important:**
- You must inform Parking Validation if this is your second (or subsequent) time to get a pass that day—no penalty, they just need to know for proper payment to East Baton Rouge Parish (EBR) authorities.
- 3—Same procedures are to be followed each day/each entry.
  - 4—Different colored passes are provided each day.
  - 5—If you fail to exchange parking ticket for pass, you will be responsible for paying the fee—no reimbursement after the fact.
  - 6—After the morning break on Wednesday (9:45 a.m. – 9:55 a.m.), Parking Validation will relocate from the registration area to the area outside of the ballroom on Level 2. Conference staff will be available from 10 a.m. – 12 p.m.

and again from 1:30 p.m. – 2 p.m. If you have not validated your parking ticket by this time, you are responsible for the parking fee.

## Badge/Name Tag

Please remember to wear your 2018 Louisiana Transportation Conference badge/name tag at all times, as this is your admission to all events.

## PDHs for Engineers & Land Surveyors

The program provides abstract information and a schedule of sessions, including the biennial engineer/land surveyor license requirement for ethics/boundary surveys. The ethics session will be offered twice (on Sunday at 4:30 p.m. and on Wednesday at 2:00 p.m.), presented by **Richard Savoie (Sunday) and Christopher Knotts (Wednesday)**. Standards of Practice for Boundary Surveys in Louisiana will also be offered twice (on Sunday at 3:30 p.m. and on Wednesday at 2:00 p.m.), presented by **Stephen Estopinal**.

Pages 31-32 of this program provide a detachable register to keep track of the sessions that are attended and number of PDHs that are accumulated. *Please note that PDHs are not given for the Personal Development Sessions. Also note that LTC Conference Management does not verify PDHs; this is up to the attendee to document.*

## Industry Exhibits

Exhibits on transportation technologies/products will be displayed during the following times in the River Center Exhibition Hall (ground level):

**Monday** 5:00 p.m. to 8:00 p.m., Industry Reception

**Tuesday** 7:00 a.m. to 3:15 p.m.

## Speaker Preparation

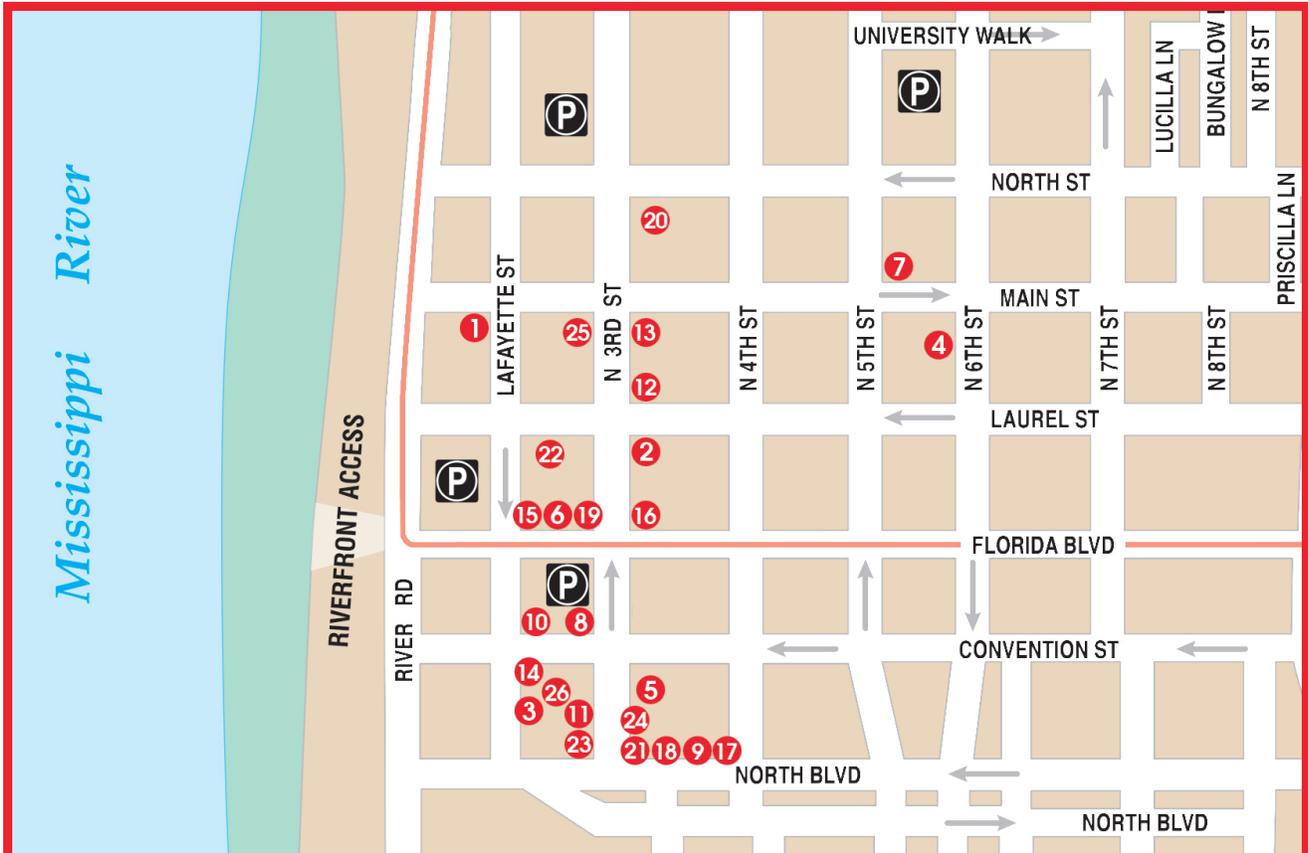
A laptop will be available in the registration area for speakers to use in preparation for presentations.

## Transportation Excellence Awards

An awards ceremony will be held Wednesday from 9:55 a.m. until 10:50 a.m. in the River Center Ballroom.

## Conference Evaluation & Presentations

A conference evaluation survey will be sent to you electronically after the conference. Please take a few minutes to respond to the survey, so we can gain your valuable input as we plan the next Louisiana Transportation Conference. After the conference, the presentations will be made available to all registered delegates, upon completion of the evaluation.



## Downtown Baton Rouge Restaurant List

- |  |   |  |   |  |
|--|---|--|---|--|
| <p><b>1 Aztecas Mexican Cuisine</b><br/>453 Lafayette St.<br/>225.223.6164</p> | <p><b>7 Main Street Market</b><br/>440 N 3rd St<br/>225.343.0600</p>            | <p><b>13 Matherne's</b><br/>440 N 3rd St<br/>225.343.0600</p>                                    | <p><b>19 Schlitz and Giggles</b><br/>301 Third St.<br/>225.218.4271</p> | <p><b>25 The Little Village</b><br/>447 Third St.<br/>225.218.6685</p> |
| <p><b>2 Blend</b><br/>304 Laurel St.<br/>225.757.5645</p>                      | <p><b>8 Jimmy John's</b><br/>201 Third St.<br/>225.379.8500</p>                 | <p><b>14 PJ's Coffee Shop</b><br/>100 Lafayette St.<br/>225.381.0055</p>                         | <p><b>20 Smoothie King</b><br/>One America Place<br/>225.336.6560</p>   | <p><b>26 Tsunami</b><br/>100 Lafayette St.<br/>225.346.5100</p>        |
| <p><b>3 Capital City Grill</b><br/>100 Lafayette St.<br/>225.381.8140</p>      | <p><b>9 Jolie Pearl Oyster Bar</b><br/>315 North Boulevard<br/>225.615.7172</p> | <p><b>15 Poor Boy Lloyd's</b><br/>201 Florida St.<br/>225.387.2271</p>                           | <p><b>21 Somos Bandidos</b><br/>303 North Blvd.<br/>225.329.7766</p>    |  |
| <p><b>4 Cocha</b><br/>445 N 6th St.<br/>225.615.8826</p>                       | <p><b>10 King Bar and Bistro</b><br/>200 Convention St.<br/>225.343.1515</p>    | <p><b>16 Raising Cane's</b><br/>302 Third St.<br/>225.332.4887</p>                               | <p><b>22 Strands Café</b><br/>226 Laurel St.<br/>225.344.5346</p>       |  |
| <p><b>5 Downtown Seafood</b><br/>130 Third St.<br/>225.346.3006</p>            | <p><b>11 Lava Cantina</b><br/>151 Third St.<br/>225.389.6459</p>                | <p><b>17 Roly Poly</b><br/>327 North Blvd.<br/>225.412.4234</p>                                  | <p><b>23 Stroube's Chophouse</b><br/>107 Third St.<br/>225.448.2830</p> |  |
| <p><b>6 Faye's Subs and Salads</b><br/>311 Third St.<br/>225.343.0283</p>      | <p><b>12 Maggie Café</b><br/>333 Laurel St. #110<br/>225.960.3400</p>           | <p><b>18 Sadaf Café Greek &amp; Lebanese Restaurant</b><br/>321 North Blvd.<br/>225.344.0090</p> | <p><b>24 Subway</b><br/>301 North Blvd<br/>225.343.9444</p>             |  |

# DOTD Business Conference

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The DOTD Business Conference will be held in conjunction with the LTC on **Tuesday, February 27**. The Business Conference activities will all take place in Lower Level Meeting Rooms 3 & 4.

## 8:00 a.m. - 9:45 a.m.

*Welcome and Introductions*, Barry Keeling and Don Johnson  
*Enterprise Support Services*, Brad Doucet

- Records Management Improvements
- Decision Support Services

*Human Resources*, Susan Pellegrin

- Critical Task Training  
(DOTD's Continuity Assurance Program)
- Selecting the Best Training

## 9:45 a.m. - 10:15 a.m. Break

## 10:15 a.m. - 12:00 p.m.

*Information Technology*, Mark Meng

- OTS General Consolidation Updates/  
Organizational Structures  
~Help Desk Update  
~End User Support Update  
~Organizational Updates
- OTS Desktop Leasing Contract and Piloting
- Brief summary of key ongoing and future projects at DOTD

*Audit*, Mark St. Cyr

- Audit Issues/Opportunities – MPO Overhead, Fueltrac, etc.
- ORM - Exposure Reporting Overview

## 12:00 p.m.- 1:00 p.m. Lunch

## 1:00 p.m. - 2:45 p.m.

*Budget*, Barbara Aguillard

- How to Use the Budget Request Portal
- How to Navigate the Carry Forward Process
- How to Complete the Budget Request Forms

*Procurement*, Charlotte Garrison

- Q & A on Procurement Processes  
~Why do I have to justify my purchase to Procurement, the budget belongs to my department?  
~ Why does Procurement have to approve a purchase that is within my purchasing authority?  
~ Why can't I sign an agreement that has terms and conditions?

*Financial Services*, Lesha Woods

- P-Card/T-Card/Expense Accounts
- "How to" discussions (various topics)  
~Looking up vendor checks  
~Best practice for GLs  
~Funding sources for Capital Projects  
~Processing Petty Cash

## 2:45 p.m. - 3:15 p.m. Break

## 3:15 p.m. - 5:00 p.m.

*Panel Discussion*

- Financial Services
- Budget
- Audit
- Procurement
- Human Resources
- Office of Technology Services
- Enterprise Support Services

*Wrap-Up and Adjournment*

# Tabletop Displays

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Visit the following groups on Tuesday, February 27, from 9:45 a.m. - 4:00 p.m. in the Exhibition Hall Lobby Area.

## Road Design

The LADOTD Road Design Section will showcase interactive and poster displays featuring past, current, and future activities of the section. Displays depicting the accomplishments of the section, a continuous presentation of select construction project photographs, and poster displays of projects under Road Design's administration will also be featured.

## Office of Multimodal Commerce

Our display will include the popular flight simulator. In addition, staff from each division will be able to answer all your questions and distribute our educational materials.

## Public Transportation

The Public Transportation tabletop display features information on the Public Transportation Programs: Rural Public Transportation, Intercity Bus, Elderly and Disabled Transportation, Job Access/Reverse Commute, Metropolitan Planning Program, and the Statewide Training Program.

## Decision Tool Suite for Pavement Preservation:

### Service Life and Cost Benefits

An innovative, if not revolutionary, software suite (beta version) has been developed under an LTRC research project entitled *Development of Cost Effective Treatment Performance and Treatment Selection Models*, Report Number 518. Its relative ease of use allows engineers to compare the service life extension as well as cost benefits of multiple treatments simultaneously on the selected roadway segment of their choosing.

The software suite utilizes equations for 48+ pavement treatment and distress types. It is unique in that it uses data specific to the roadway selected by the engineer such as historical distress data from the PMS database, the effect of climate for its location, traffic loadings specific to it, PMS thresholds based upon its highway classification, and DOTD bid item cost history. The actual distress history of the selected roadway segment instead of generalized distress history of similar roads in Louisiana is used in the analysis. This increases the accuracy of the service life extension output.

Treatment benefit, annualized costs, and service life extension are incorporated into the software suite to capture the complexities of cataloging and ranking pavement preservation treatments.

## Louisiana Local Technical Assistance Program

Louisiana Local Technical Assistance Program (LTAP) stimulates the progressive transfer of highway technology through training, work force development and technical assistance. A cooperative effort of DOTD, FHWA and LSU, LTAP leverages the expertise and resources of these organizations for the benefit of local transportation and public works agencies.

## Compliance Programs

The Compliance Programs Office will provide information relative to the federal programs we administer: Disadvantaged Business Enterprise Program, Small Business Enterprise Program, Title VI, Labor Compliance, and On-the Job Training.

## Maintenance Systems Management

The new LADOTD Office of Operations statewide program launched in 2017. The goal is to identify, recognize, and share the best ideas, tools, processes, projects and programs being used in different areas of the state that help make Operations work safer, more cost effectively, easier, etc. Innovations can be submitted for any of the following areas:

- Tools and work processes—modifications or enhancements made by LADOTD employees, or changes to a work process means or methods.
- Software/Technical—implementation or modification of software or other technical aids.
- Innovations are evaluated in the following areas:
  1. Originality – How new is it to DOTD?
  2. Duration – How long has it been in practice with desired results?
  3. Transferability – How likely is it to be used in other areas?
  4. Organizational impact – How will it positively impact department with tangible results?
  5. Conservation of Resources – How much money will it save?
  6. Cost to Implement – What is the total cost of the innovation?
  7. Meets Intended Goal – How well does the innovation perform against the intended goal?
  8. Impact on Safety – What is the impact on safety to employees, contractors or the traveling public?

## Destination Zero Deaths

We invite you to help Louisiana improve traffic safety by joining the Destination Zero Deaths initiative. Whether it is through education, enforcement, emergency response, or engineering, your work can make an impact and potentially save someone's life. Speak with our DZD Team members and find out how you can be part of this life-saving journey! Let's get the word out about buckling up, driving sober, and not being distracted behind the wheel.

# Poster Presentations

Visit the following graduate student projects in the Galleria on Tuesday, February 27.

## Session 1 | 1:00 p.m. - 3:00 p.m.

### **Determination of Polymer Degradation in Asphalt Binder Due to Aging**

*Roksana Hossain, Waleed M. Omer, and Nazimuddin M. Wasiuddin  
Louisiana Tech University*

### **A Framework for Over-Height Vehicle Impact Reduction on Bridges**

*Marc Hoffmann  
Louisiana State University*

### **Louisiana Pedestrian Crash Characteristics**

*Ming Sun  
University of Louisiana at Lafayette*

### **Prediction of Distracted Driving Crash Severity with Multinomial Logistic Regression and Data Mining Algorithms**

*M. Ashifur Rahman and Xiaoduan Sun  
University of Louisiana at Lafayette*

### **A Decision-Making Tool for Incorporating Cradle-To-Gate Sustainability Measures into Pavement Design**

*Sujata Subedi, Marwa M. Hassan, Qiangdong Nie, Neveen S. Talaat Soliman, Kevin Gaspard, and Tyson Rupnow  
Louisiana State University*

### **Impacts of Updated Design Rainfall Values on Louisiana Infrastructure**

*Mario Durbic  
Louisiana State University*

### **Field Evaluation and Cost Effectiveness of Crack Sealing in Flexible and Composite Pavements**

*Momen Mousa, Mostafa A. Elseifi, Mohammad Bashar, Zhongjie Zhang, and Kevin Gaspard  
Louisiana State University*

### **Field Performance and Cost Effectiveness of Chip Seal in Flexible Pavements**

*Mohammad Z. Bashar, Mostafa A. Elseifi, Momen Mousa, Zhongjie Zhang, and Kevin Gaspard  
Louisiana State University*

### **Development of a Structural Capacity Prediction Model Based on Traffic Speed Deflectometer Measurements**

*Zia Uddin Ahmed Zihan, Mostafa A. Elseifi (Corresponding Author), Zhongjie Zhang, and Kevin Gaspard  
Louisiana State University*

### **Effect of Steel Confinement on the Performance of Bridge Piers Retrofitted with Externally-Wrapped FRP**

*Diogo Zignago Vieira and Michele Barbato  
Louisiana State University*

## Session 2 | 3:00 p.m. - 5:00 p.m.

### **Slurry Fluorogypsum (S-FG)-Based Blend for Road Pavement Construction**

*Yasser Bigdeli and Michele Barbato  
Louisiana State University*

### **Effects of Light-Activated Self-Healing Polymers on the Rheological Behaviors of Asphalt Binder Containing Recycled Asphalt Material**

*Sharareh Shirzad  
Louisiana State University*

### **Evaluation of Hollow-Fibers Encapsulating a Rejuvenator in Asphalt Binder with Recycled Asphalt Shingles**

*Max A. Aguirre, Marwa M. Hassan, Sharareh Shirzad, Samuel Cooper, Ioan I. Negulesco, and Louay N. Mohammad  
Louisiana State University*

### **Updating Direct Cone Penetration Test Methods for Estimating the Capacity of Driven Piles Based on Probabilistic and Robertson Classification Methods**

*Mohsen Amirmojahedi  
Louisiana State University*

### **Numerical Evaluation of the Behavior of GRS-IBS under Working Stress Conditions**

*Murad Abu-Farsakh, Allam Ardah, and George Voyiadjis  
Louisiana State University*

### **Effect of Secondary Tasks and Driver Behavior on Crash/Near-crash Risk at Intersections and Non-intersections: A Naturalistic Driving Study**

*Grace Ashley, Osama A. Osman, Sherif Ishak, Julius Codjoe, and Bitu Hashemi  
Louisiana State University*

### **Field Implementation of Handheld FTIR Spectrometer for Polymer Content Determination and for Quality Control of RAP Mixtures**

*Lamiya Noor and N. Wasiuddin  
Louisiana Tech University*

### **Tailoring Engineered Cementitious Composites with Locally Accessible Raw Ingredients for Applications in Transportation Infrastructures**

*Kamal Baral, Jovan Tatar, and Qian Zhang  
University of Louisiana at Lafayette*

### **Feasibility of Using Surface Mounted Shape Memory Alloys for Post-tensioning of Deteriorated Concrete Bridge Girders**

*Arkabrata Sinha and Jovan Tatar  
University of Louisiana at Lafayette*

### **Do Nanoparticle-Modified Adhesives Improve Strength and Durability of FRP-Concrete Adhesively Bonded Joints?**

*Syed Ahnaf Morshed, William Chirdon, Qian Zhang, and Jovan Tatar  
University of Louisiana at Lafayette*

# Program At-A-Glance

## Sunday, February 25

### 2:00 p.m.–6:00 p.m.

Conference Registration, *River Center Riverview Room*

### 3:30 p.m.–5:30 p.m.

Standards of Practice for Boundary Surveys in Louisiana, *River Center Meeting Rooms 9, 10*

### 4:30 p.m.–5:30 p.m.

Professionalism and Ethics for Engineers and Land Surveyors, *River Center Meeting Rooms 5, 6, 7, 8*

## Monday, February 26

### 7:00 a.m.–5:00 p.m.

Conference Registration, *River Center Riverview Room*

### 7:00 a.m.–8:30 a.m.

Continental Breakfast, *River Center Galleria*

### 7:30 a.m.–8:30 a.m.

Secretary's Breakfast, *River Center Lower Level Meeting Rooms 3 & 4*  
**BY INVITATION ONLY**

### 9:00 a.m.–11:15 a.m.

General Session, *River Center Ballroom*

### 11:15 a.m.–1:00 p.m. | Lunch (on your own)

### 1:00 p.m.–2:45 p.m.

Concurrent Sessions, *River Center*

1: DOTD's Response to House Resolution 178 (2016) (Room 2)

2: DOTD Permit & Agreement Processes (Room 3-4)

3: Multimodal Commerce Drives Economic Growth (Room 5-6)

4: Louisiana SHSP Overview & How it Drives the HSIP (Room 7-8)

5: Bridge Painting (Room 9)

6: Concrete - Session 1 (Room 10)

7: Moving into The Digital Age: DOTD Establishes a Remote Sensing Program for the Planning, Collection, and Management of Aerial Imagery and Lidar Data (Room 11)

8: Maintaining DOTD's Assets (Room 12)

9: Public Works & Water Resources (Room 13)

10: Personal Development: Phantom of the Conversation (Lower Level Meeting Room 1)

### 1:00 p.m.–2:45 p.m.

Workshop - Decision Tool Suite for Pavement Preservation: Service Life and Costs/Benefits, *River Center Lower Level Meeting Rooms 3 & 4*

### 2:45 p.m.–3:15 p.m. | Break, River Center Galleria

### 3:15 p.m.–5:00 p.m.

Concurrent Sessions, *River Center*

11: Transportation Vulnerabilities in Changing and Subsiding Landscapes - Projecting Future Realities (Room 2)

12: Managed Lanes and Tolling Operations (Room 3-4)

13: Traffic Engineering - Session 1 (Room 5-6)

14: Curbing Roadway & Lane Departure (Room 7-8)

15: CPM (Critical Path Method) (Room 9)

16: Concrete - Session 2 (Room 10)

17: Audit and Contract Requirements (Room 11)

18: Bridge Maintenance - Session 1 (Room 12)

19: Records Management and Decision Support - Panel Discussion (Room 13)

20: Personal Development: Phantom of the Conversation (Lower Level Meeting Room 1)

### 5:00 p.m.–8:00 p.m.

Industry Exhibits/Reception, *River Center Exhibition Hall*

## Tuesday, February 27

### 7:00 a.m.–5:00 p.m.

Conference Registration, *River Center Riverview Room*

### 7:00 a.m.–8:00 a.m.

Continental Breakfast, *River Center Exhibition Hall*

### 7:00 a.m.–3:15 p.m.

Industry Exhibits, *River Center Exhibition Hall*

### 8:00 a.m.–9:45 a.m.

Concurrent Sessions, *River Center*

21: Student Presentations / Awards (Room 2)

22: Practical Design / Design Guidelines (Room 3-4)

23: Emergency Operations (Room 5-6)

24: Data Integration for Strategic Investments (Room 7-8)

25: Project Management (Room 9)

26: Geotech - Session 1 (Room 10)

27: Bridge Load Rating (Room 11)

28: Project Needs, Funding, and Delivery - Keys to Success (Room 12)

29: Every Day Counts (Room 13)

30: Personal Development: AASHTO TC3 - A National Transportation Training Resource (Lower Level Meeting Room 1)

### 9:45 a.m.–10:15 a.m. | Break, River Center Exhibition Hall

### 9:45 a.m.–4:00 p.m.

Tabletop Displays, *River Center Exhibition Hall Lobby Area*

### 10:15 a.m.–12:00 p.m.

Concurrent Sessions, *River Center*

31: Materials Lab Updates - Aggregates, Cement, and Epoxy (Room 2)

32: Traffic Engineering - Session 2 (Room 3-4)

33: ITS Maintenance and Communications (Room 5-6)

34: Ped / Bike Planning with Safety in Mind (Room 7-8)

35: Constructability and ICE (Room 9)

36: Geotech - Session 2 (Room 10)

37: Recent Bridge Construction Projects (Room 11)

- 38: *Environmental* (Room 12)  
39: *Local Public Agencies* (Room 13)  
40: *Personal Development: AASHTO TC3 - A National Transportation Training Resource* (Lower Level Meeting Room 1)

**12:00 p.m.–1:00 p.m.**  
Lunch, River Center Exhibition Hall (lunch provided)

**1:00 p.m.–3:00 p.m.**  
Graduate Student Poster Presentations - Session 1,  
*River Center Galleria*

- 1:00 p.m.–2:45 p.m.**  
Concurrent Sessions, *River Center*
- 41: *Compliance* (Room 2)
  - 42: *Access Management (RCUTs)* (Room 3-4)
  - 43: *Connected Vehicles / Autonomous Vehicles* (Room 5-6)
  - 44: *Legal Panel Discussion* (Room 7-8)
  - 45: *Contracts - Session 1* (Room 9)
  - 46: *Asphalt Pavement Density: Impacts and Specifications* (Room 10)
  - 47: *Bridge Design Manual, Standards, & Specifications* (Room 11)
  - 48: *Incorporating State / Local Data for Enterprise GIS* (Room 12)
  - 49: *Americans with Disabilities - What You Need to Know* (Room 13)
  - 50: *Personal Development: Phantom of the Conversation* (Lower Level Meeting Room 1)

**2:45 p.m.–3:15 p.m. | Break, River Center Exhibition Hall**

**3:00 p.m.–5:00 p.m.**  
Graduate Student Poster Presentations - Session 2,  
*River Center Galleria*

- 3:15 p.m.–5:00 p.m.**  
Concurrent Sessions, *River Center*
- 51: *Metropolitan Planning Organizations – Development and Implementation of Their Long-Range Transportation Plans* (Room 2)
  - 52: *FHWA Transportation Performance Management Rules* (Room 3-4)
  - 53: *Multimodal Infrastructure is Transportation Infrastructure* (Room 5-6)
  - 54: *Mean, Lean, and Green: What Does it Take to Implement a Complete Street?* - Panel Discussion (Room 7-8)
  - 55: *Contracts - Session 2* (Room 9)
  - 56: *Synthesis on Tack Coat Specifications, Materials, Construction, and Testing* (Room 10)
  - 57: *Bridge Repair and Rehabilitation* (Room 11)
  - 58: *Implementing Enterprise GIS* (Room 12)
  - 59: *Moving from Data Collection to Information Use on the Local Transportation Network: We've Got It, Now What Do We Do with It?* (Room 13)
  - 60: *Personal Development: Interactive Tips and Tricks for Meeting Facilitation* (Lower Level Meeting Room 1)

## Wednesday, February 28

**7:00 a.m.–8:00 a.m.**  
Continental Breakfast, *River Center Galleria*

- 8:00 a.m.–9:45 a.m.**  
Concurrent Sessions, *River Center*
- 61: *Bridge Maintenance - Session 2* (Room 2)
  - 62: *Advancements in Technology for 511 and Traffic Signal Operations in Louisiana* (Room 3-4)
  - 63: *Multimodal Infrastructure: Driving the Economy* (Room 5-6)
  - 64: *Roundabout Design and Construction - Panel Discussion* (Room 7-8)
  - 65: *DOTD Real Estate – Property Management / Partial Acquisition Costs* (Room 9)
  - 66: *Stepping into the Age of Automation: Inspection and Materials* (Room 10)
  - 67: *Managing SUE Project Deliverables / Surveying With Unconventional Robotics* (Room 11)
  - 68: *Management Systems Updates* (Room 12)
  - 69: *Funding for Capital Projects - Panel Discussion* (Room 13)
  - 70: *Personal Development: Designing Engaging Visuals* (Lower Level Meeting Room 1)

**8:00 a.m.–9:45 a.m.**  
Workshop - Decision Tool Suite for Pavement Preservation: Service Life and Costs/Benefits, *River Center Lower Level Meeting Rooms 3 & 4*

**9:45 a.m.–9:55 a.m. | Break**

**9:55 a.m.–10:50 a.m.**  
Transportation Awards Ceremony, *River Center Ballroom*

**10:50 a.m.–11:00 a.m. | Break**

- 11:00 a.m.–12:00 p.m.**  
Concurrent Sessions, *River Center*
- 71: *Research - Swamp Tank* (Room 2)
  - 72: *Continuous Improvement Program Changes* (Room 3-4)
  - 73: *Federal Disaster Relief* (Room 5-6)
  - 74: *2016 Flood Events* (Room 7-8)
  - 75: *Transit Services & Engineering Applications* (Room 9)
  - 76: *Preserving Treasured Assets, Including Our Workers* (Room 10)
  - 77: *CADD Topics* (Room 11)
  - 78: *Statewide Topographic Mapping Program* (Room 12)
  - 79: *Traffic Incident Management* (Room 13)
  - 80: *Personal Development: Designing Engaging Visuals* (Lower Level Meeting Room 1)

**12:00 p.m.–2:00 p.m. | Lunch (on your own)**

**2:00 p.m.–3:00 p.m.**  
Professionalism and Ethics for Engineers and Land Surveyors,  
*River Center Meeting Rooms 5, 6, 7, 8*

**2:00 p.m.–4:00 p.m.**  
Standards of Practice for Boundary Surveys in Louisiana,  
*River Center Meeting Rooms 9, 10*

# Session Descriptions

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The following pages contain concurrent session titles, a session description, titles of presentations, and names of presenters. A copy of the presentations will be available on the LTRC website after the conference.

**[MONDAY 1:00 p.m.–2:45 p.m.]**

## **Session 1: DOTD's Response to House Resolution 178 (2016)**

*Moderator: Connie Betts  
Meeting Room 2*

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In an effort to identify plausible alternative funding sources for highway transportation projects, House Resolution 178 (HR 178) was enrolled during the 2016 Regular Legislative Session. This two-part request asks LADOTD to evaluate the feasibility of (1) tolling highways and bridges and (2) implementing local option motor fuel taxes in Louisiana. An overview of LADOTD's response to HR 178 will be presented in this session.

### **Feasibility of Tolling Selected Priority A & B Megaprojects**

*Kent Olsen, HDR Engineering, Inc.*

### **Feasibility of Implementing Local Option Motor Fuel Taxes**

*Sharon Green, HDR Engineering, Inc.*

## **Session 2: DOTD Permit & Agreement Processes**

*Moderator: Brian May  
Meeting Room 3-4*

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Many people know that LADOTD's Road Design Section is responsible for developing road plans, either through in-house design or by reviewing consultant plans, but other responsibilities involve R/W Permits, RR Permits, and Utility Agreements. This session will discuss these responsibilities as well as the processes that are involved with the different permits and agreements that may be required for your projects.

### **R/W Permits**

*Joy Johnson, LADOTD*

### **Railroad Safety and Construction**

*Bill Shrewsberry, LADOTD*

### **Utility Relocation**

*JoAnn Kurts, LADOTD and Billy Moore, Cardno*

## **Session 3: Multimodal Commerce Drives Economic Growth**

*Moderator: Molly Bourgoyne  
Meeting Room 5-6*

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Mega Projects! Multimodal Connectivity! Infrastructure! Economic Development! Oh, My!

Long Bridge, Gateway Port Terminal Facility, Mississippi River Ship Channel Deepening, and Dredging innovation study with case studies, alternative methodologies and funding vehicles, and a GIS platform for visual interpretation and planning. Projects that enable multimodal connectivity and a future with deep water marine, inland marine, high-speed and intercity passenger rail, commuter rail, freight rail, air, pipeline, transit, bicycle, pedestrian, and vehicular traffic.

### **Long Bridge - Present and Future: A Multimodal Analysis**

*Edward LaGuardia, Michael Baker*

### **Port of Plaquemines Master Plan**

*Chris Fetters and David Ronsen, GIS Engineering*

### **Mississippi River Ship Channel Deepening to 50 Feet**

*Sean Duffy, Big River Coalition/LAMA*

### **Implementation of the LTRC Dredging Study and How it Addresses SR 220 with CPRA & USACE with The Water Institute**

*Chris Fetters, GIS Engineering*

## **Session 4: Louisiana SHSP Overview & How it Drives the HSIP**

*Moderator: Autumn Goodfellow-Thompson and Rudynah Capone  
Meeting Room 7-8*

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Louisiana has set a clear vision for reducing death and injury on the roadways—Destination Zero Deaths. In 2016, 758 people died and nearly 1,400 suffered serious injuries in traffic-related crashes on Louisiana's roadways. To move the numbers down, Louisiana has identified specific emphasis areas based on the safety data, with a focus on fatal and serious injury crashes: Impaired Driving, Young Drivers, Occupant Protection, Infrastructure and Operations (Roadway Departure, Intersections, and Non-Motorized Users) and Distracted Driving. By concentrating on the emphasis areas, we plan to make the biggest impact.

This session will cover an overview of the 2017 Strategic Highway Safety Plan (SHSP) update as well as funding opportunities for implementing SHSP strategies through federal funding programs, the Louisiana Highway Safety Commission behavioral programs, and LADOTD Highway Safety Improvement Program.

## Quick Glance at the 2017 SHSP Update

*Rudynah Capone, LCTS and Autumn Goodfellow-Thompson, LADOTD*

## NEW SHSP Emphasis Area - Distracted Driving

*Ron Whittaker, LADOTD and Jessica Bedwell, LHSC*

## LHSC Behavioral Programs

*LHSC Representative*

## Show Me the Money! The HSIP Project Selection Process

*Adriane McRae and Karla Courtade, LADOTD*

## Session 5: Bridge Painting

*Moderator: Casey Allen*

*Meeting Room 9*

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This session will review design considerations for cleaning and painting a steel structure. This includes environmental concerns where lead and other regulated heavy metals are present, corrosion protection, and performance. A review of environmental implementation procedures on LADOTD projects will be explored—ranging from containment and ventilation methods to waste transportation and disposal. Basic theories and procedures involving thermal spray coatings (metalizing) for corrosion protection of steel and concrete will be discussed along with some of the unique design aspects and administration of work undertaken during bridge cleaning, painting, and repair projects.

## Hazardous Paint Removal: Environmental Design & Field Implementation

*Kevin Guth, KGC Environmental Services, Inc.*

## Thermal Spray Coatings for Corrosion Protection- What You Need to Know

*John Crowe, GPI*

## Design Considerations and Project Administration of Bridge Coating Projects

*Mike Beitzel, Modjeski and Masters, Inc.*

## DOTD Experience with High Performance Paint

*Mike Grubb, LADOTD*

## Session 6: Concrete - Session 1

*Moderator: Chris Abadie*

*Meeting Room 10*

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Jointed concrete pavements are a series of slabs with transverse joints spaced every 20 feet. Part of the success of joint performance depends on proper installation of steel dowel bar load transfer devices placed across these joints. Specifications for alignment of the bars led to a field investigation of whether the devices were typically placed according to a prescribed alignment tolerance, and if not, to what extent an out-of-tolerance condition might affect performance. LADOTD has conducted one of the most recent and extensive field evaluations of alignment and performance, and the results are presented for the first time in this session.

Concrete is required to have a prescribed compressive strength prior to loading which requires sampling and testing during construction.

The Maturity Meter is being implemented by LADOTD to provide a non-destructive means of determining when lanes can be opened to traffic by minimizing the number of cylinders required for sampling and testing during construction. The presentation will provide examples of the use of the Maturity Meter in Louisiana and the degree of success at the project level.

Roller Compacted Concrete for highway applications has been successfully researched by LADOTD at the Pavement Research Facility and is ready for implementation. The presentation will provide examples of implementation around the country for this technology that has been demonstrated to successfully carry repeated heavy loads and is an economical alternative to both conventional flexible and rigid pavements for certain applications.

## Dowel Bar Alignment

*Tyson Rupnow, LTRC*

## Implementation of LADOTD Mass Concrete and Maturity Testing Specifications

*Mark Cheek, The Beta Group*

## RCC - Implementation and Nationwide Projects

*Corey Zollinger, Cemex*

## Session 7: Moving into The Digital Age: DOTD Establishes a Remote Sensing Program for the Planning, Collection, and Management of Aerial Imagery and Lidar Data

*Moderator: Barrett Smith*

*Meeting Room 11*

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Presentations, respective of each dataset, will describe the specifications and challenges associated in collecting and processing each dataset. These datasets will be incorporated into the Statewide Geospatial Database for Topographic Mapping and made available to state, local, and federal partners.

## Remote Sensing for Statewide Digital Geospatial Database

*Brenda Browning and Kurt Johnson, LADOTD*

## LiDAR Collection with sUAS

*Chad Netto, Chutz Surveying, LLC*

## Session 8: Maintaining DOTD's Assets

*Moderator: Shane Caldwell*

*Meeting Room 12*

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This session covers managing LADOTD's maintenance work, including funding, equipment, activities, and contracts. There will also be a presentation on innovative ideas districts are using to accomplish goals with limited resources.

## Innovations Showcase

*Kevin Reed, LADOTD*

## DOTD Maintenance 101

*David Miller, Kevin Reed, Vince Latino, and Leslie Mix (retired), LADOTD*

## Session 9: Public Works & Water Resources

*Moderator: Chris Knotts*

*Meeting Room 13*

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This session will cover the current transition of LADOTD Hydraulics analyses from 1-dimensional to 2-dimensional modeling. This is an FHWA-encouraged effort that will be transitioned into over the next year and be fully implemented by the end of 2018. We will also cover the Statewide Flood Control Program and that program's criteria.

### C.H.A.N.G.E. is Here: An Overview of FHWA's EDC Hydraulic Modeling Innovation

*Don Hendon, Garver/FHWA C.H.A.N.G.E.*

#### Statewide Flood Control Program

*Billy Williamson, LADOTD*

## Session 10: Personal Development—Phantom of the Conversation

*Moderator: Ted Ball*

*Lower Level Meeting Room 1*

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This session looks at how we all use visual speech information—literally what you see affects what you hear. Face-to-face, we cannot avoid integrating visual cues we see into what we think we hear. That's the good news! The bad news is that this process is a form of hallucination and can cause sincerely honest mistakes in communication. See how this process works and what we can do to reduce its effect.

*Presented by Ted Ball, LTRC*

## Workshop - Decision Tool Suite for Pavement Preservation: Service Life and Cost/Benefits

*Lower Level Meeting Room 3 & 4*

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An innovative if not revolutionary software suite (beta version) has been developed under an LTRC research project entitled "Development of Cost Effective Treatment Performance and Treatment Selection Models," Report Number 518. Its relative ease of use allows engineers to compare the service life extension as well as cost benefits of multiple treatments simultaneously on the selected roadway segment of their choosing.

The software suite utilizes equations for 48+ pavement treatment and distress types. It is unique in that it uses data specific to the roadway selected by the engineer, such as historical distress data from the PMS database, the effect of climate for its location, traffic loadings specific to it, PMS thresholds based upon its highway classification, and LADOTD bid item cost history. The actual distress history of the selected roadway segment—instead of generalized distress history of similar roads in Louisiana—is used in the analysis. This increases the accuracy of the service life extension output.

Treatment benefit, annualized costs, and service life extension are incorporated into the software suite to capture the complexities of cataloguing and ranking pavement preservation treatments.

*Presented by Kevin Gaspard and Zhongjie "Doc" Zhang, LTRC*

**[MONDAY 3:15 p.m.–5:00 p.m.]**

## Session 11: Transportation Vulnerabilities in Changing and Subsiding Landscapes - Projecting Future Realities

*Moderator: James E. Mitchell*

*Meeting Room 2*

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Coastal Louisiana and the Mississippi River Delta are some of the most dynamic landscapes on earth. This poses great challenges for transportation infrastructure: roads, ports, and waterways. Subsidence and sea level rise, as well as changing weather patterns and climate, all combine to exacerbate these issues. This session will chronicle changes in elevation, weather, and sea level that must be accounted for in the design and engineering of transportation infrastructure. Creating a sustainable future for Louisiana will require creativity, sound science, and good engineering.

### The Process of Change - Louisiana Changing Elevation Profiles and the Causes

*Cliff Mugnier, LSU Center for Geoinformatics*

### The Monitoring and Forecasting of Flooding and Coastal Inundation

*Jonathan Brazzell, NOAA National Weather Service*

### Protecting Critical Coastal Highways and Evacuation Routes to Support the State's Economy

*Joe Thompson, Lafayette 911 and Louisiana USAR Teams 2 - Climate change effects on emergency operations and Search and Rescue*

### Projecting Out and Using Present Day Data and Trends to Portray the Future Landscape and Transportation Environment

*Tim Osborn, NOAA*

## Session 12: Managed Lanes and Tolling Operations

*Moderator: Scott Rundell*

*Meeting Room 3-4*

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The state of Louisiana is always looking to viable alternatives for improving traffic and to generate necessary funding dollars for road and bridge projects in the future. Tolling is now being considered for new road and bridge construction projects moving forward in the state. Managed Lanes, which is another form of tolling, is also an option for improving traffic conditions without having to necessarily build new transportation corridors. In addition, tolling agencies from across the United States are required to be interoperable in the future, which means that your toll tag (GeauxPass) would work on other state toll roads. The session will include industry experts in managed lanes and tolling, and provide a picture of what the future in transportation could look like in Louisiana.

## **Managed Lanes**

*Steve Debella, HNTB*

## **Technology/Future of Tolling**

*William Marrinez de Velasco and Steven Dunski, Emovis*

## **Inoperability**

*J.J. Eden, ATI*

## **Session 13: Traffic Engineering - Session 1**

*Moderator: Ryan Hoyt*

*Meeting Room 5-6*

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As congestion continues to grow in Utah and as the ability to add new capacity diminishes, the Utah Department of Transportation has used several innovative intersection types to optimize mobility of its transportation system. This presentation will focus on the lessons learned from the various intersection and interchange applications within Utah, including Diverging Diamond Interchanges, Continuous Flow Interchanges, Through Turns, and Reversible Lanes. These lessons are focused on geometric designs, operational strategies and safety experiences.

Another intersection design involves roundabouts, and, with 28 on Louisiana roads and more on the horizon, we will learn about the design tools that Washington DOT employs in the design. Encouraging conceptual drawings by the designer or traffic engineer that are approximately scaled assist the “reader” in understanding how the roundabout concept will fit into a location and help show from a measurement standpoint the balance with how it impacts “land takes,” environmental mitigation and the “footprint” that will be needed to serve the expected traffic. This session will also incorporate reiterative thinking into the design process. Knowing the 1st conceptual drawing that is started will never be as good as the 3rd conceptual gives the designer/traffic engineer the ability to use reiterative conceptual while still in sketch form. This can save valuable time in the design process. Another tool that will be explored will be a “truck swept path” program most agencies use and how it can work optimally so that a design is not over or underbuilding a roundabout based on not using the tool correctly or to its full capabilities.

## **Utah’s Experience with Alternative Intersections and Interchanges**

*Mark Taylor, Utah DOT*

## **Using Design Tools for Roundabouts**

*Brian Walsh, Washington DOT*

## **Session 14: Curbing Roadway & Lane Departure**

*Moderator: Adriane McRae*

*Meeting Room 7-8*

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Did you know over 50% of our traffic fatalities in Louisiana occur on two-lane rural roads? Even with the lower vehicular traffic, they are the most vulnerable, especially if a motorist leaves the travel lane. During this session, researchers will discuss engineering ideas (tried/proven and innovative) for keeping motorists in their lane and how we are evaluating their safety effectiveness here in Louisiana and nationally.

## **Benefits of Centerline Rumble Strips on Rural 2 Lane Highways in Louisiana**

*Xiaoduan Sun, ULL*

## **Safety Effectiveness of Raised Pavement Markers, Audible Thermoplastic Striping, and 6” Edgelines**

*Paul Carlson, TTI/Texas A&M*

## **Using LaSET to Evaluate Safety of Enhanced Signing at Curves**

*Jeff Dickey, HSRG*

## **Session 15: CPM (Critical Path Method)**

*Moderator: Dallas Ballmer*

*Meeting Room 9*

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CPM (Critical Path Method) is a commonly used scheduling technique in the field of civil engineering, particularly construction engineering. CPM identifies all activities related to a project and uses the relationships of those activities to determine the longest path from the start of a project to the end of a project. CPM is typically used on large, complex projects, to deliver a project efficiently and with a clear plan. LADOTD is in the process of updating our CPM Special Provision to encompass updates in technology and to improve the usage of CPM schedules in construction. Software updates and specification revisions will be discussed.

## **Contractor Application and Primavera Upgrade**

*Bill Schalin, Oracle*

## **CPM Specification Revision**

*Daryl Ivy, SJB Group*

## **Oracle Software**

*Mindy Statz, Oracle*

## Session 16: Concrete - Session 2

Moderator: Jack Kiefer

Meeting Room 10

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Chemicals added to concrete are routinely used to alter the properties and behavior of final mix. This presentation will provide information on both typical admixture applications and why they are used in concrete as well as some of the more exotic applications used to further enhance concrete performance.

Internal curing of concrete using expanded clay sand size particles has been researched in Louisiana, with several successful applications. The product is ready for implementation and to further that goal, the speaker will provide some of the applications of this technology around the country.

Reconstruction of concrete pavements can be accelerated by using precast concrete panels that are made to fit, saving curing time in the field. The presentation will highlight an ongoing project in the Shreveport District to reconstruct a ramp leading from a state route to the interstate.

### Admixture Overview

Tom Greene, GCP Applied Technologies

### Internal Curing - Local and Nationwide Projects

Jeff Speck, Trinity Industries

### Precast Panels

Phillip Sturdivant, LADOTD

## Session 17: Audit and Contract Requirements

Moderator: Mark St. Cyr

Meeting Room 11

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This session will consist of three presentations focused on differing aspects of contract requirements and awards and how the LADOTD Audit Section is involved. The first involves the indirect cost rates developed by our MPOs and the acceptance process of those rates. In the second, we will discuss how the department has implemented the pre-award risk assessment and monitoring process for sub-recipients as dictated by the OMB Super-circular. Finally, our Consultant Contract Services section will discuss changes to the contracting process and how it is handled during interim and post audits of projects.

### MPO Overheads

Connie Betts and Brian Carter, LADOTD

### LPA Risk Assessment and Monitoring

Katie Vance and Jonathan Pitre, LADOTD

### Contract Changes and Audits

Darlene Major, Randy Jarreau, and Michael Miesch, LADOTD

## Session 18: Bridge Maintenance - Session 1

Moderator: Jarrett Lambert

Meeting Room 12

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This session will cover information on the status of Louisiana bridges, a closer look at the contracted repairs on LA 1 at the Intra-coastal Waterway in West Baton Rouge Parish, and repair projects performed by LADOTD forces.

### Status of Louisiana Bridges

David Miller, LADOTD

### LA 1 Bridge Repairs in WBR

Joshua Stutes and Chad Roubique, LADOTD

### In-House Bridge Repair Projects

Haylye Brown, LADOTD

## Session 19: Records Management and Decision Support - Panel Discussion

Moderator: Brad Doucet

Meeting Room 13

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LADOTD's Records Management Program has undergone significant change and improvement over the past few years. Learn about the new central scanning service and other recent improvements in records management at the department.

LADOTD was the pilot Agency for LaGov, the State of Louisiana's Enterprise Resource Planning system. Learn about how the Decision Support team at DOTD has leveraged over seven years of information provided by LaGov to improve business processes and decision making throughout the department.

### Scanning Transportation Records: Challenges and Solutions

Claire Dixon, LADOTD

### Providing Analytical Services and Support to the DOTD Enterprise

Tiffany Williams, Michael Root, and Clyde Ashley, LADOTD

## Session 20: Personal Development—Phantom of the Conversation

Moderator: Ted Ball

Lower Level Meeting Room 1

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This session looks at how we all use visual speech information—literally what you see affects what you hear. Face-to-face, we cannot avoid integrating visual cues we see into what we think we hear. That's the good news! The bad news is that this process is a form of hallucination and can cause sincerely honest mistakes in communication. See how this process works and what we can do to reduce its effect.

Presented by Ted Ball, LTRC

## [TUESDAY 8:00 a.m.–9:45 a.m.]

### Session 21: Student Presentations / Awards

Moderator: V.J. Gopu

Meeting Room 2

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Teams of civil engineering students from Louisiana universities will present their senior design projects. These projects receive support from LADOTD through its Support Program for Civil Engineering Studies.

### Session 22: Practical Design / Design Guidelines

Moderator: Ryan McMillan

Meeting Room 3-4

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LADOTD has been pro-active in pursuing practical design methods for several years. This session will discuss the LADOTD philosophy as well as what tools are being used to create a culture of using practical design. This session will also look into how the Ohio DOT is utilizing their performance based design in project development.

#### Performance Based Project Development (PBPD) in Ohio

Dave Holstein, Ohio DOT

#### Practical/Performance Based Design in LA

Chad Winchester, LADOTD

#### Design Reports, Waivers, and Exceptions

Robert Isemann, LADOTD

### Session 23: Emergency Operations

Moderator: Skip Breeden

Meeting Room 5-6

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This session will concentrate on two topics:

First – A discussion of how to determine when disaster damage is eligible for FEMA or FHWA reimbursement. This discussion will also provide tips on how to determine whether a reimbursement request should be forwarded to FEMA or FHWA.

Second – A discussion on coordination of public works functions during emergency/disaster events. Roles and priorities change on the fly – we must be ready.

#### Disaster Event Funding/ Reimbursement

Skip Breeden, LADOTD

#### Coordination of 2016 Emergency Operations

Yvonne Murphy and Skip Breeden, LADOTD

### Session 24: Data Integration for Strategic Investments

Moderator: Bryan Costello and Cory Hutchinson

Meeting Room 7-8

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Data-driven decision making is what it takes to implement Louisiana's Strategic Highway Safety Plan. To achieve a significant reduction in traffic fatalities and serious injuries on Louisiana's public roads, it is imperative that we use data to allocate our limited resources. This session will discuss how we collect and analyze safety data and the results of our analysis.

#### Crash Data Overview and Quality Assurance Program

Cory Hutchinson, HSRG and Bryan Costello, LADOTD

#### Crowd Sourcing for Traffic Volume Estimation

Julius Codjoe, LTRC

#### Safety Analysis Tools Used for Coalitions and Districtwide Investment Plans - Statewide Dashboards, Network Screening, Project Level Analysis

April Renard, LADOTD and Mark Verret, HSRG

#### Utilizing Crash Records and Roadway Characteristic Data to Develop Local Road Safety Plans

Ashley Moran, Acadiana MPO

### Session 25: Project Management

Moderator: Christina Brignac

Meeting Room 9

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We will be discussing the process and challenges to deliver projects expeditiously and the innovation that occurred along the way.

The LA 318 Interchange project is the first Design Build project that included right-of-way acquisition as part of the scope as well as the first time that an Alternative Technical Concept required an Environmental Supplement. We will discuss this project, its processes, and how it was completed.

We will review what has been constructed and the status of where we are today regarding the 18-mile LA 1 elevated roadway leading to Port Fourchon.

#### Accelerated Projects: Making Every Day Count

Tim Nickel, LADOTD and Joe Cains, Stantec

#### LADOTD Design Build: LA 318 Interchange (Future I-49 South)

Tim Nickel, LADOTD

#### LA 1: Port Fourchon to Golden Meadow Status

Tim Nickel, LADOTD and Dusty Bastion, HNTB

## Session 26: Geotech - Session 1

Moderator: Jeff Lambert

Meeting Room 10

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This session will discuss the long term problems of building embankments using high plasticity clays. The first presenter will summarize some of the research that has been done at Louisiana State University and the University of Texas at Arlington to be able to predict the stability of embankments. There will be an overview of lessons learned from prior failures and remedial measures will be discussed in the context of predicting future events. The second presenter will discuss a “green” method of repairing slopes utilizing recycled plastic pins and will provide case studies.

### Predicting the Stability of Highway Embankments in Louisiana

Navid Jaffari, LSU

### Slope Stabilization Using Recycled Plastic Pins

Sadik Khan, Jackson State

## Session 27: Bridge Load Rating

Moderator: Carl Gaudry

Meeting Room 11

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As the nation’s infrastructure ages and highway transportation demands continue to increase, it is imperative that states keep a close eye on the condition and structural capacity of existing highway structures. Recent federal requirements and new methods and technologies are being developed and implemented to aid in more and better assessment and monitoring of the existing bridge inventory.

### Load Rating of Cast-In-Place Reinforced Concrete Box Culverts Using Field Testing

Ayman Okeil, LSU

### Bridge Evaluation Based on Health Monitoring Data

Dana Feng, LADOTD

### Off-System Bridge Rating Program

Kian Yap, LADOTD

## Session 28: Project Needs, Funding, and Delivery - Keys to Success

Moderator: Bob Schmidt

Meeting Room 12

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Whether your perspective is from the public side or private side, keys to success in accomplishing goals for the transportation industry are the same: determining needs, finding the funding that is necessary, and successfully delivering the projects. This session provides a look at these three components from the Louisiana perspective. Project Needs will be presented in terms of both maintenance of our existing transportation system as well as the backlog demand of new capacity mega-projects identified by LADOTD’s Statewide Transportation Plan. Existing and Proposed New Funding will be presented both from the state and federal perspectives: what is Louisiana’s

current funding and what is the outlook for increased funding? This includes the potential for a new Louisiana gas tax or other measures, plus the proposed \$1 trillion Trump infrastructure plan and what it could mean for Louisiana. New Project Delivery Methods will focus on two alternative project delivery and finance tools in Louisiana’s toolbox, CMAR (construction manager at risk) and PPP (public-private partnerships). The Lake Pontchartrain Causeway and Belle Chase Bridge major projects are currently advancing under these new (to Louisiana) delivery methods. Join state and federal industry senior leaders in these presentations.

### Existing Maintenance and Mega-Project Backlog

Connie Betts, LADOTD

### Existing State Funding Program and Potential New State Funds; Existing FAST Act Federal Program; Proposed TRUMP Infrastructure Plan

Joshua Hollins, LADOTD, Wes Bolinger, FHWA, and Matt Reiffer, ACEC

### Safety Bay CMAR project / Belle Chase Bridge PPP project

Carlton Dufrechou, Lake Pontchartrain Causeway and

Cheryl Duvieilh, LADOTD

## Session 29: Every Day Counts

Moderator: Mary Stringfellow

Meeting Room 13

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Every Day Counts is innovation implementation. LADOTD has been participating in this Federal Highway Administration program since it began. This session is an update of some of the initiatives: where we have been, where we are now, and where we are going.

### The Environmental Section’s Involvement in EDC 1-4

Noel Ardoin, LADOTD

### Pavement Preservation

Jason Lacombe, LADOTD

### Stakeholder Partnering

Ann Wills, LADOTD

### 3-D Modeling

Ryan Richard, LADOTD

## Session 30: AASHTO TC3 - A National Transportation Training Resource

Moderator: John Dean

Lower Level Meeting Room 1

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With the dynamics of a changing workforce and the introduction of new technologies and requirements, AASHTO is committed to provide workforce training and development resources to its members. TC3 is a technical service program within AASHTO that focuses on developing training products for technical staff in the areas of Construction, Maintenance, and Materials. TC3 main resource is a library of 120 on-line training modules covering a variety of topics in those primary discipline areas.

As a national resource, TC3 helps states, local governments and industry save money at a critical time for infrastructure investment. Although principally developed by and for state DOT staff, any group that is in the business of building or maintaining surface transportation infrastructure can benefit from the expansive on-line curriculum developed by AASHTO.

To support the on-line curriculum, the TC3 has developed a broad matrix of core skill competencies for the transportation workforce. The TC3 uses them as a guide for course development, but many find these matrices a valuable tool to support workforce development planning.

The TC3 recently rolled out a private sector subscription program so industry can realize cost savings by purchasing pre-paid access to the TC3 curriculum at discounted rates. This program is gaining popularity and momentum and has the potential to expand the access to the transportation technical and professional staff well beyond the DOT.

*Presented by Mark Chaput, TC3*

**[TUESDAY 10:15 a.m.–12:00 p.m.]**

### **Session 31: Materials Lab Updates – Aggregates, Cement, and Epoxy**

*Moderator: Francisco Gudiel  
Meeting Room 2*

The information presented will update the recent changes on qualification requirements for the following topics:

- Aggregates source approval process and friction rating criteria; aggregates and the effects of ASR and ACR in concrete due to alkali reactivity of aggregates; and the steps the 2016 Specs took to address this issue
- Cement and fly ash alkali load and how it may affect the use of alkali silica reactive aggregates in concrete; tests to evaluate mix reactions and potential concrete expansion due to alkali reactivity
- Epoxy and the implementation of new qualification requirements and updated performance criteria in the 2016 Specs; how it has affected the number of approved materials.

#### **Aggregate Friction Rating**

*Brandon Johnson and Khalil Hanifa, LADOTD*

#### **LADOTD Policy on ASR/ACR**

*Brandon Johnson and Justin Morris, LADOTD*

#### **Rapid Setting Patching Material (Epoxy)**

*Justin Morris and Khalil Hanifa, LADOTD*

#### **Round Table Discussion**

*All presenters*

### **Session 32: Traffic Engineering - Session 2**

*Moderator: Joshua Harrouch*

*Meeting Room 3-4*

Automated traffic signal performance measures (ATSPMs) modernize traffic signal management by providing high-resolution data to support objectives and performance-based maintenance and operations strategies that improve safety and efficiency while cutting congestion and cost. ATSPMs are a revolutionary and deceptively simple approach to troubleshoot, alert, prioritize, and optimize traffic signals. Half of this session will discuss Utah's experience and how agencies can obtain and use low cost ATSPMs to improve traffic signal maintenance and operations. The other half of this session will cover Sidra software and the similarities and the differences with the Highway Capacity Manual, and comparing the two different models. The presenter will elaborate on why roundabout delay quickly escalates as volumes get close to capacity, how adding lanes or making them longer can easily fix a failing roundabout, and could a failing single lane be better than making it two lanes with good LOS.

#### **Utah's Experience with Alternative Intersections and Interchanges**

*Mark Taylor, Utah DOT*

#### **How Does Sidra Incorporate the HCM?**

*Howard McCulloch, Sidra*

### **Session 33: ITS Maintenance and Communications**

*Moderator: Erik Smith*

*Meeting Room 5-6*

ITS Maintenance provides many services to the public on behalf of LADOTD through its interstate cameras (CCTV), Dynamic Message Signs (DMS), and the monitoring of the network components that power and connect our devices to LADOTD's fiber-optic network. As such, constant labor is needed to monitor and provide both routine and responsive maintenance to promote safety and efficiency on Louisiana roads. This session will cover the scope and methods of ITS Maintenance as delivered by LADOTD ITS employees, contractors, and consultants.

#### **ITS Maintenance Interactive Performance Measures Dashboard**

*Paul Hsu and Jeff Jones, Arcadis*

#### **DOTD Update on ITS Maintenance**

*Tony St. Philip, LADOTD*

#### **Contractor Update on ITS Maintenance**

*Mark Melancon, Intelligent Transportation Systems, LLC*

#### **Contractor Update on ITS Maintenance**

*Michael Taylor, DETEL*

## Session 34: Ped / Bike Planning with Safety in Mind

Moderator: Jessica DeVille

Meeting Room 7-8

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Louisiana has an award-winning Complete Streets Policy, but non-motorized user fatalities and serious injuries are on the rise. Are we doing enough to implement the policy? This session will discuss key strategies that enable safety partners to prioritize Complete Streets implementation, which includes the explicit consideration of non-motorized user safety.

### Statewide Long Range Bicycle Planning Tool

Paul Waidhas, BKI

### Pedestrians & Bicyclists Count: Developing a Statewide Multimodal Count Program

Tara Tolford, UNO

### BR Ped/Bike Safety Action Plan

Yuwen Hou and Thomas Montz, Arcadis

### Bicycle & Pedestrian Planning: A Roadmap to Increased Safety

Matt Johns and Sooraz Patro, Rapides Area Planning Commission

## Session 35: Constructability and ICE

Moderator: Nicholas Olivier

Meeting Room 9

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This presentation will guide the audience through a sample CMAR project and explain the benefits, challenges, process, team member responsibilities, and sample best practices from projects around the country. LADOTD has been working on process and legislation for several years and this presentation will help answer questions and improve understanding of this innovative contracting tool.

### ICE (Independent Contractor Estimates) / CMAR (Construction Management at Risk)

Chris Wilson, ICE and Jerry Volz, AIM Construction

## Session 36: Geotech - Session 2

Moderator: Chris Nickel

Meeting Room 10

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This session will focus on deep foundations. The first presenter will discuss post grouted drilled shafts and provide some preliminary guidance on their use based on findings from an evaluation done by FHWA and ADSC. The next speaker will cover the importance of foundation type selection when constructing new foundations adjacent to existing foundations. Two case studies will be presented. The final presentation will cover a project in Seattle, WA, on the Evergreen Point Floating Bridge, which is currently the world's longest floating bridge.

## Post Grouted Drilled Shafts – Preliminary Findings from FHWA/ADSC Evaluation

Ben Rivers, FHWA

## Deep Foundation Type Selection Considering Impact to Adjacent Structures

Albert Y. Ayenuprah, Jr., Ardaman & Associates

## Evergreen Point Floating Bridge – Seattle, WA

Ben Upsall, Geoengineers

## Session 37: Recent Bridge Construction Projects

Moderator: Anthony Bamugo

Meeting Room 11

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While LADOTD constructs numerous projects every year, some incorporate less than typical features. This session features presentations on recent or ongoing projects which included construction techniques, products, and/or design aspects which are unique, seldom used, or even new technology.

### Luling Bridge Cable Stay Replacement

Paul Fossier, LADOTD

### Luling Bridge Steel Crack Repair and Deck Overlay Replacement

Zhiyong (John) Liang, SDR Engineering

### I-49/I-220 Interchange Segment K-Phase 2 Shreveport, LA

Dustin Guskiewicz and Du'Sean Grant, PCL and Bernard Sincavage and Andy Bajnauth, LADOTD

### US 80 over Bayou Lafourche – AccelBridge

Justin Peltier, Huval & Associates and Eddie He, AccelBridge

## Session 38: Environmental

Moderator: Noel Ardoin

Meeting Room 12

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Now that the Historic Bridge Inventory has been completed, LADOTD must implement special considerations for Historic Bridge Improvements into the project delivery process. The implementation process demonstrating LADOTD's commitment to bridge preservation will be outlined. In addition, there will be a summary of noise modeling as part of the NEPA process followed by a demonstration of FHWA's new Traffic Noise Model software (TNM 3.0) which has recently been updated. The software update is more user friendly than previous versions and can be utilized as an extension to popular GIS and CADD software.

### Implementation of the Historic Bridge Program

Christina Slattery, Mead & Hunt

### Highway Noise Analysis Using the FHWA TNM 3.0

Aaron Hastings, USDOT Volpe Center

## Session 39: Local Public Agencies

*Moderator: Marie Walsh*

*Meeting Room 13*

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Local Public Agencies (LPAs) are our partners. We share a mission to improve the lives of our stakeholders. These presentations will discuss the programs and options available to the Local Public Agencies.

### **Picking the Best Types of Projects**

*Mary Stringfellow, FHWA*

### **Programs - How They Work**

*Ann Wills, LADOTD*

### **Picking the Best Bridge for the Off-System Bridge**

### **Replacement Program**

*Gary Pentek, LADOTD*

### **What the Future Holds**

*Eric Kalivoda, LADOTD*

## Session 40: AASHTO TC3 - A National Transportation

### **Training Resource**

*Moderator: John Dean*

*Lower Level Meeting Room 1*

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With the dynamics of a changing workforce and the introduction of new technologies and requirements, AASHTO is committed to provide workforce training and development resources to its members. TC3 is a technical service program within AASHTO that focuses on developing training products for technical staff in the areas of Construction, Maintenance, and Materials. TC3 main resource is a library of 120 on-line training modules covering a variety of topics in those primary discipline areas.

As a national resource, TC3 helps states, local governments and industry save money at a critical time for infrastructure investment. Although principally developed by and for state DOT staff, any group that is in the business of building or maintaining surface transportation infrastructure can benefit from the expansive on-line curriculum developed by AASHTO.

To support the on-line curriculum, the TC3 has developed a broad matrix of core skill competencies for the transportation workforce. The TC3 uses them as a guide for course development, but many find these matrices a valuable tool to support workforce development planning.

The TC3 recently rolled out a private sector subscription program so industry can realize cost savings by purchasing pre-paid access to the TC3 curriculum at discounted rates. This program is gaining popularity and momentum and has the potential to expand the access to the transportation technical and professional staff well beyond the DOT.

*Presented by Mark Chaput, TC3*

**[TUESDAY 1:00 p.m.–2:45 p.m.]**

## Session 41: Compliance

*Moderator: Stephanie Ducote*

*Meeting Room 2*

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The purpose of this mandatory training is to provide an overview of the Federal Compliance requirements related to Construction projects. What is provided in this training session are the duties and responsibilities being performed by the District personnel to accomplish these compliance requirements.

### **DOTD BP Compliance for Construction**

*Angela Benn, Amber White, and Juanita Linton, LADOTD*

## Session 42: Access Management (RCUTs)

*Moderator: Desmond Sam*

*Meeting Room 3-4*

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Access management projects are being implemented nation-wide due to the increased safety and efficiency associated with these improvements. DOTD has implemented several projects which employ RCUT treatments. These presentations will discuss the implementation of these projects and lessons learned during the process, and will also provide Louisiana specific safety performance data for some of these projects.

### **Access Management: An R-Cut Above the Rest!**

*Cristine Gowland, LADOTD*

### **Safety Evaluation of J-Turn Projects in Louisiana**

*Xiaoduan Sun, University of Louisiana at Lafayette*

### **RCUT Project Process on US 190 in Livonia**

*Andrew Judice, LADOTD*

## Session 43: Connected Vehicles / Autonomous Vehicles

Moderator: Steve Glascock

Meeting Room 5-6

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The session will present the Department's Connected and Autonomous Vehicles (CAV) team efforts, an example of how LSU's state-of-the-art driving simulator is used for CAV research, and some industry perspectives on this disruptive technology including the history of CAVs—yesterday, today, and tomorrow.

### DOTD CAV Technology Team: Updates & Moving Forward

Akhil Chauhan, Arcadis

### Connected & Autonomous Vehicles—Current State and the Art of Making it Happen

Peter Ashley, Applied Information

### How Effective are Connected Vehicle Safety Applications? Investigation of Impact of CV Market Penetration in the Driving Simulator

Osama A. Osman, Louisiana State University

### CAVs – A Long and Winding Road

Glenn Havinovski, Iteris

## Session 44: Legal Panel Discussion

Moderator: Dan Magri

Meeting Room 7-8

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This session will include a panel discussion on recent case studies related to highway safety.

### Panelists

Corrine Blache and Laura Putnam, Attorney General's Office

Jason Placke and Lesia Warren, LADOTD

## Session 45: Contracts - Session 1

Moderator: Mark Chenevert

Meeting Room 9

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Anyone who touches an engineering or a related consulting services contract during his or her workday should attend this session to hear about recent contract changes, the difference between Title 48 and Title 39, changes to the consultant invoice process, and info about entity state agreements.

### Engineering Contracts: What's New and What You Need to Know

Darlene Major and Claire Popovich, LADOTD

### Title 48 v. 39: Knowing Which One Applies to Your Contract

Darlene Major and Charlotte Garrison, LADOTD

### Consultant Invoice Process - What's New?

Mike Gorbaty, LADOTD

### Entity-State Agreements - Are These Really Necessary?

Mike Gorbaty and Claire Popovich, LADOTD

## Session 46: Asphalt Pavement Density: Impacts and Specifications

Moderator: Sam Cooper, III

Meeting Room 10

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This session will present research regarding impacts of asphalt mixture design and construction on the density and durability of asphalt pavements. The session will also provide an update of ongoing research geared toward non-destructive density determination for pay in Louisiana.

### Impact of Design and Construction of Asphalt Mixtures on Pavement Density and Performance

Louay N. Mohammad, LTRC

### Non-Destructive Density Determination for Quality Acceptance

Sam Cooper, III, LTRC

## Session 47: Bridge Design Manual, Standards, & Specifications

Moderator: Heather Patton

Meeting Room 11

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Over the past couple of years, significant changes, revisions and new versions of various "standards" used by LADOTD and specifically Bridge Design have been released. Within this session, presentations will be made to describe and explain the changes which have been made and how they might affect future projects.

### Bridge Design & Evaluation Manual and LG Girder Standards

Zheng Zheng (Jenny) Fu, LADOTD

### LU PPC Girder Standards

Mohsen Shahawy, SDR Engineering

### Standard & Special Details Updates

Adam Lancaster, LADOTD

### 2016 Standard Specifications Part 8 - Structures

Kelly Kemp and Paul Vaught, LADOTD

## Session 48: Incorporating State / Local Data for Enterprise GIS

Moderator: Jason Chapman

Meeting Room 12

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This session will focus on LADOTD efforts to satisfy the need for a statewide GIS to be used by state and local governments as well as federal reporting requirements. Presentations will cover the data collection methods for attribute data on state highways and "public" non-state roadways over the past three years. LADOTD is collaborating with various local governments to build relationships and establish various means of data exchange. These relationships will help strengthen LADOTD's inventory of all roads within Louisiana by compiling current data provided by local governments in a combi-

nation of formats. This information will be migrated into the state-wide GIS for distribution and maintenance purposes. The session will also cover traffic monitoring data collection projects and the tools used to integrate it within the GIS enterprise.

#### **Road Inventory Data**

*Delicia Justice, LADOTD*

#### **Traffic Count Data Systems**

*George Chike, LADOTD*

#### **Data Collaboration with GIS**

*Darryl Mack and Nathan Baylot, LADOTD*

### **Session 49: Americans with Disabilities - What You Need to Know**

*Moderator: Ann Wills*

*Meeting Room 13*

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Have you thought about how you would get around town if you were visually or mobility impaired? This session will discuss the problems and challenges from both the visually and mobility impaired perspectives and LADOTD's new, revised Standard Plan, PED-01, and the ADA Transition Plan.

#### **Updates to PED-01**

*Melissa LeBas, LADOTD*

#### **ADA Transition Plan**

*Heather Huval, LADOTD*

#### **Visually-Impaired Challenges**

*Blanche Faulk and Stacy Cox, LA School for the Visually Impaired*

#### **Mobility Challenges**

*Joe Wills, LADOTD*

### **Session 50: Personal Development— Phantom of the Conversation**

*Moderator: Ted Ball*

*Lower Level Meeting Room 1*

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This session looks at how we all use visual speech information—literally what you see affects what you hear. Face-to-face, we cannot avoid integrating visual cues we see into what we think we hear. That's the good news! The bad news is that this process is a form of hallucination and can cause sincerely honest mistakes in communication. See how this process works and what we can do to reduce its effect.

*Presented by Ted Ball, LTRC*

**[TUESDAY 3:15 p.m.—5:00 p.m.]**

### **Session 51: Metropolitan Planning Organizations – Development and Implementation of Their Long-Range Transportation Plans**

*Moderator: Dan Broussard*

*Meeting Room 2*

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Metropolitan Transportation Plans (MTP) play a critical role as the cornerstone of metropolitan area transportation planning processes—linking regional visions to financially realistic plans for multimodal transportation systems and providing strategic direction for the investment decisions in Transportation Improvement Programs (TIP). The MTP can establish the long-term transportation investment, service, and policy agenda for the region. It can also be a critical document for demonstrating that the federal planning regulations as well as locally expressed priorities, public involvement, and many other critical inputs to the planning process take explicit form in a single formal document. That document provides important opportunity for the planning agencies to communicate the priorities, critical choices, and general directions for the region to a broad audience, including planning partners, other stakeholders, elected officials, and the public.

This session will highlight two MTP updates from differing perspectives, each one with a unique set of circumstances to address: Baton Rouge, a larger MPO (population greater than 200,000), will be finalizing their 20-year plan in early 2018 and Lake Charles, a smaller MPO (population greater than 50,000 but less than 200,000), is just beginning the process of updating their plan.

#### **IMCAL's Metropolitan Transportation Plan Update**

*Cheri Soileau, IMCAL*

#### **CRPC's Metropolitan Transportation Plan Update**

*Jamie Setze, CRPC*

## Session 52: FHWA Transportation Performance Management Rules

Moderator: Jerry Pitts  
Meeting Room 3-4

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“The Rules are in... Now What!?” The FHWA Transportation Performance Management (TPM) Final Rules have been set, but what does this mean for Louisiana? The Louisiana FHWA Division staff will breakdown specific TPM requirements for achieving national performance goals in Infrastructure Condition (pavements and bridges), Safety, Congestion Reduction, System Reliability, and Freight Movement and what this means for Louisiana moving forward with project selection and federal-aid funding.

### Asset Management Overview and Pavement Condition Measures

Scott Nelson, FHWA

### Bridge Condition Measures

Art Aguirre, FHWA

### Safety Measures

Betsy Tramonte, FHWA

### System Performance Measures

John Broemmelsiek, FHWA

### Freight Movement and CMAQ System Performance Measures

Carlos McCloud, FHWA

## Session 53: Multimodal Infrastructure *is* Transportation Infrastructure

Moderator: Molly Bourgoyne  
Meeting Room 5-6

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CMAR! APMS! WRDA! DDIs! Oh, My!

- CMAR (Construction Management at Risk) pilot program and benefits with compare/contrast elements between CMAR and Design, Bid, Build
- Update to the Louisiana APMS, pavement inventory and condition statistics for the State’s airport system, as well as demonstrating the project’s web-based deliverable
- WRDA Process (which began in 2000) and challenges that the non-Federal sponsors had to go through to get authorization
- Freight movements through Diverging Diamond Interchanges (DDIs)
- Roundabouts, Do’s and Don’ts!

### Construction Management at Risk (CMAR) Pilot Program Effectiveness - A Port of Lake Charles Case Study

Don Brinkman, Port of Lake Charles

### Aviation: Louisiana State Airport System Pavement Condition Index (PCI) Study

Kyle Potvin, Applied Pavement Technology

### Acadiana Gulf of Mexico Access Channel (AGMAC) - “A Need for Action”

O’neil Malbrough, Jr., GIS Engineering

### Diverging Diamonds and Roundabouts: How to Keep on Trucking Along

Meredith K. Cebelak and Michael Flatt, Gresham Smith and Partners

## Session 54: Mean, Lean, and Green: What Does it Take to Implement a Complete Street? - Panel Discussion

Moderator: April Renard  
Meeting Room 7-8

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With funding constraints, institutional resistance, and competing priorities, implementation of Louisiana’s Complete Streets Policy has been slow to progress. However, success is possible and this diverse and progressive panel will discuss ways to overcome these challenges.

### Panel Discussion on Implementing Complete Streets from Various Perspectives (Economic Development, Health, Bike Advocacy, Traffic Engineering, and Transit)

Logan Anderson, Baton Rouge Area Chamber

Meg Young, New Orleans Health Department

Dan Favre, Bike Easy – Greater New Orleans

Dan Gelinne, UNC Highway Safety Research Center

Laurence Lambert, Vectura

## Session 55: Contracts - Session 2

Moderator: Mark Chenevert  
Meeting Room 9

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Project Managers will benefit from hearing about the process for modifying Standard Specifications, and reviews of the Falcon and Bid Review processes will be presented.

Additionally, consultants will benefit from hearing about recent changes to the LADOTD Form 24-102.

### Changes in the Specification Revision Process

Jacques Deville, LADOTD

### Falcon Info

Patrick Wollerson, LADOTD

### Bid Review Process

Charles Nickel and Al Simon, LADOTD

### 24-102 - What Does this Number Mean to You?

Rhonda Braud, LADOTD

## **Session 56: Synthesis on Tack Coat Specifications, Materials, Construction, and Testing**

*Moderator: Danny Gierhart*

*Meeting Room 10*

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Every synthesis includes a long survey over the synthesis topic. After receiving a survey response from all 50 states, plus 7 Canadian Provinces, regarding what they do with tack coats, a summary will be presented. It's rare to have a 100% response rate from the states, and this will allow Louisiana's responses to be highlighted in comparison to what other states are doing.

### **Synthesis on Tack Coat Specifications, Materials, Construction, and Testing**

*Danny Gierhart, Asphalt Institute*

## **Session 57: Bridge Repair and Rehabilitation**

*Moderator: Andrew Windmann*

*Meeting Room 11*

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Projects often have constraints that require extraordinary measures or efforts to overcome. The two projects presented in this session required innovative or unconventional means of resolving such constraints.

### **I-40 (TN) Fast Fix 8 Presentation**

*Ted Kniazewycz, Tennessee DOT*

### **Gasparilla Island Swing Bridge Replacement**

*Henri Sinson, Hardesty & Hanover, LLC*

## **Session 58: Implementing Enterprise GIS**

*Moderator: Jason Chapman*

*Meeting Room 12*

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LADOTD GIS/Mapping is advancing the Enterprise GIS and its usability within the Department and for public distribution. This session will provide an update on the steps being taken to migrate roadway geometry and attribute data into one geospatial database where they reside together interactively. Efforts are underway to load local road geometry and attribute data that have been collected through the use of contracted services. DOTD will provide access to local agencies and seek participation from them to maintain fundamental elements. We will explore the possibilities of incorporating data from other agencies and data deliveries, as well as the distribution of GIS and feature data services for mapping and data analysis.

### **Development of an Enterprise GIS**

*Darryl Mack and Chris Cannaday, LADOTD*

### **Incorporating Collected Data**

*David Druen and Nathan Baylot, LADOTD*

### **Publication of Data with GIS Services**

*Jason Carr and Michael Vetter, LADOTD*

## **Session 59: Moving from Data Collection to Information Use on the Local Transportation Network**

*Moderator: Marie Walsh*

*Meeting Room 13*

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LADOTD and local agencies have expended significant time and money to collect data to aid in both state and local-level decision making and to meet federal regulations. Vast amounts of data are now being maintained by different state and local sources. Now, the challenge is using what has been collected and in identifying missing or hard to use data that is both common and critical to different programs and to different user groups. This session will explore what data are available, the plans to make these data sets available to the appropriate user groups, and plans to develop data that is still missing or difficult to access.

### **Using Roadway Data to Proactively Plan and Manage Local Road Resources**

*Mary Stringfellow, FHWA*

### **Moving from Data to Information to Save Lives**

*Peter Allain and Steve Strength, LA LTAP and LRSP*

### **Available Data and How to Get It**

*Darryl Mack, LADOTD*

## **Session 60: Personal Development—Interactive Tips and Tricks for Meeting Facilitation**

*Moderator: John Dean*

*Lower Level Meeting Room 1*

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Learn how to implement various forms of technology in a meeting or other work environment that gets involvement and participation. This workshop will provide a brief overview of multiple free and/or paid services to elicit interaction and responses from participants, as well as complete formal and informal assessments in real time. Bring your smart phone, tablet, or laptop to participate and follow along. Participants will understand how these tools can help in their jobs while garnering higher participation, and more honest answers, all in a quicker method that's easy to use and understand.

*Presented by Garrett Wheat, LTRC*

## [WEDNESDAY 8:00 a.m.–9:45 a.m.]

### Session 61: Bridge Maintenance - Session 2

Moderator: *Jasmine Galjour*

Meeting Room 2

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This session will include presentations that provide information about ancillary structures, timber repairs with fiber reinforced polymer, and a look at the US 61 @ I-10 ramp repair.

#### Timber Repairs with Fiber Reinforced Polymer

*Vijaya "VJ" Gopu, LTRC*

#### Ancillary Structures

*Chace Hulon, Moffatt & Nichol*

#### US 61 @ I-10 Ramp Repair

*Aaron Elisar and Scott Lobell, LADOTD*

### Session 62: Advancements in Technology for 511 and Traffic Signal Operations in Louisiana

Moderator: *Carryn Sollie*

Meeting Room 3-4

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This session will focus on how LADOTD is continuing to use advanced technology to enhance and expand our services to the public. From traveler information to advanced signal operations strategies for improved system efficiency and safety.

#### Florida DOT 2017 Hurricane Irma 511 ATIS Response

*Mike Haas, IBI Group*

#### Modernizing the EBR Emergency Vehicle Preemption System

*Sarah Edel, EBR City Parish and Leary Tomlin, Gresham Smith & Partners*

#### Adapting to Adaptive Traffic Signals

*Jonathon Fox, Intelligent Transportation Systems, LLC*

### Session 63: Multimodal Infrastructure: Driving the Economy

Moderator: *Molly Bourgoyne*

Meeting Room 5-6

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Airports! Waterways! Railroads! Ports! Oh, My!

- Photo story of the Airport Inspection Program.
- Baptiste Collette Bayou deepening from 14-ft to 22-ft contributes to the local state, and national economy.
- Lessons Learned and Challenges to a State DOT when working with railroads.
- Overall analysis of where Ports have been, where they are, and how and where they should think about going into the future of commerce exchanges, movements, and demand.

### Airport Safety Inspection Program at Louisiana Airports - a Photographic Story

*Jason Ball, LADOTD*

### Baptiste Collette Bayou Navigation Channel Deepening, Section 203 Study

*Melissa Kennedy, HNTB*

### Working on the Railroad with State DOTs - What You Should Know

*Kevin Keller, HDR*

### State of Ports in Louisiana

*Paul Aucoin, Port of South Louisiana*

### Session 64: Roundabout Design and Construction - Panel Discussion

Moderator: *Danielle Langford*

Meeting Room 7-8

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Roundabout design does not have to be a one-size fits all approach. Walsh will speak about right-sizing roundabouts, and the use of Washington State DOT "compacts." The roundtable panel discussion will be a mixture of design and construction personnel with an emphasis on what works in a set of roundabout construction plans and what does not work.

#### Compact Roundabouts and Practical Design

*Brian Walsh, Washington DOT*

#### Roundabout Round Table

*Panel of LADOTD Construction and Design Staff*

### Session 65: DOTD Real Estate – Property Management / Partial Acquisition Costs

Moderator: *Jamie Boullion*

Meeting Room 9

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This session will include two presentations. The first presentation will be a 30 minute overview of LADOTD's excess property disposal process. It will discuss the various laws and statutes that govern the department's handling of excess property as well as the key players involved in determining if a property is excess and unnecessary to the department. The second presentation will last for the remainder of the session and will be an in-depth discussion of the high costs of partial acquisitions, including several real-world examples.

#### Property Management:

#### The Ins and Outs of the Property Disposal Process

*Jamie Boullion, LADOTD*

#### The Complexity of Partial Acquisitions:

#### The High Cost of What is Not Acquired

*Donna Stinson, LADOTD*

## Session 66: Stepping into the Age of Automation: Inspection and Materials

*Moderator: Amar Raghavendra*

*Meeting Room 10*

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LTRC and LADOTD Materials Automation are working to advance LADOTD into the digital age for field inspection and materials management. Technology doubles about every two years, yet many tasks around LADOTD have remained the same over the last 30 years. Between web and cellular technologies, we all have data at our fingertips. The next generation (and many of the current generation) are already proficient in basic computing technologies and some web technologies. LTRC is conducting a study with Pavia Systems, Inc. to bring tablets to the field to replace field books, increase field documentation, and enhance communication in the field. The LADOTD Materials Automation group is working to bring mix design and sample management online. This allows for mix designs to be handled globally rather than by project and for samples to be tracked similar to shipping a package. Centralizing all of this data allows for more efficient reporting and automation of many tasks that required scanned paper trails. As more and more data becomes connected with other data, department administration will have the ability to make more data-driven decisions.

### **DOTD's Innovation in Project Delivery Using HeadLight**

*Si Katara and Steven Vellozo, Pavia*

### **DOTD's Experience with Headlight**

*Chad Roubique and Lester Fletcher, III, LADOTD*

### **LaPave Online**

*Patrick Icenogle, LADOTD*

## Session 67: Managing SUE Project Deliverables / Surveying With Unconventional Robotics

*Moderator: Barrett Smith*

*Meeting Room 11*

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This session includes presentations that will highlight methods utilized by LADOTD consulting engineers to provide advanced techniques and technologies in the delivery of topographic surveys. Since the early 1990s, Subsurface Utility Engineering (SUE) has been a proven solution to identifying existing subsurface utilities on transportation projects. The use of SUE has been endorsed by numerous industry organizations, including the Federal Highway Administration (FHWA), the American Association of State Highway and Transportation Officials (AASHTO), the American Society of Civil Engineers (ASCE), the American Public Works Association (APWA), and State Departments of Transportation including LADOTD and many others. The ASCE standard that defines SUE practices, CI/ASCE 38-02 "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data," has become the industry standard for transportation engineers around the country. As construction activity in the right of way increases and we attempt to fit more utilities into the available underground space, the likelihood of conflicts

between utilities increases. It is dangerous and expensive to manage utility conflicts and relocations in the field during construction, and therefore desirable to identify and solve the conflicts prior to construction. SUE is a means to better characterize the quality of subsurface utility information and to manage the risks associated with construction activities that affect subsurface utilities.

### **Managing SUE Mapping in Transportation Project Delivery**

*Billy Moore, Cardno, Inc.*

### **Avoiding Road Closures for Survey Using Robotics (the R2D2 Kind)**

*Jonathan Coco and Joey Coco, Forte and Tablada, Inc.*

### **Subsurface Utility Engineering: Designation Techniques, Suitability, and Utility Conflict Mitigation**

*Andrew McLaughlin, Craig Polifrone, and Dennis Hymel, T. Baker Smith*

## Session 68: Management Systems Updates

*Moderator: Jason Chapman*

*Meeting Room 12*

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In 2017, one of the Federal Highway Administration's final rules establishing performance measures for state DOTs and Metropolitan Planning Organizations took effect. The rule, established by MAP-21, measures and addresses requirements to assess the condition of pavements and bridges on the National Highway System (NHS). This session will review Louisiana's current measures and the tools used to set target goals. New technology in pavement distress collection will be presented with comparisons between the 2D to 3D methods. See how advanced modeling of Interstate distress curves affected the predicted Interstate budget to meet LADOTD goals. LADOTD's bridge management system is being updated to the latest version of AASHTOWare's BrM. Discover the challenges of implementation and capabilities of the software to produce an accurate assessment of bridge needs.

### **Upgrading to dTIMS Business Analytics**

*Chris Fillastre, LADOTD*

### **Implementing AASHTOWare BrM (Bridge Management)**

*Ray Elhami, LADOTD*

### **Updates to Asset Management Plan**

*Randy Goodman and Mark Suarez, LADOTD*

## Session 69: Funding for Capital Projects - Panel Discussion

*Moderator: Barbara Aguilard*

*Meeting Room 13*

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In this session, we will have three presentations. In the first one, we will explore the major revenue streams used to finance capital projects and provide a brief overview of the Transportation Trust Fund (TTF).

The second presentation will focus on the guidelines to accurately submit, process, and receive federal funds.

A third and final presentation will focus on the requirements for receiving state funding. It will also provide insight and tips for navigating the ZFIPBEC information, LADOTD's financial system for projects.

### **DOTD's Major Revenue Streams**

*Susan Stockstill, LAGOV*

### **Federal Funding Guidelines**

*Brian Jones, LADOTD*

### **State Funding Requirements & ZFIPBEC**

*Tandra Boult, LADOTD*

## Session 70: Designing Engaging Visuals

*Moderator: Patrick Frazier*

*Lower Level Meeting Room 1*

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The Designing Engaging Visuals presentation will help participants combine elements of communication and art. Your visuals should communicate material in a way that facilitates learning. While you don't have to be a famous artist to create engaging visuals, it helps if you think like one. This presentation will help you use the elements and principles of design to create effective visuals that are easy to understand, visually relevant, and aesthetically appealing. Upon completion of this presentation, participants will be able to create visuals using some of the basic elements and principles of design and apply basic design guidelines to increase audience understanding.

*Presented by Amy Ard and Julie Miller, LADOTD*

## Workshop - Decision Tool Suite for Pavement Preservation: Service Life and Cost/Benefits

*Lower Level Meeting Room 3 & 4*

---

An innovative if not revolutionary software suite (beta version) has been developed under an LTRC research project entitled "Development of Cost Effective Treatment Performance and Treatment Selection Models," Report Number 518. Its relative ease of use allows engineers to compare the service life extension as well as cost benefits of multiple treatments simultaneously on the selected roadway segment of their choosing.

The software suite utilizes equations for 48+ pavement treatment and distress types. It is unique in that it uses data specific to the roadway selected by the engineer, such as historical distress data from the PMS database, the effect of climate for its location, traffic loadings specific to it, PMS thresholds based upon its highway classification, and LADOTD bid item cost history. The actual distress history of the selected roadway segment—instead of generalized distress history of similar roads in Louisiana—is used in the analysis. This increases the accuracy of the service life extension output.

Treatment benefit, annualized costs, and service life extension are incorporated into the software suite to capture the complexities of cataloguing and ranking pavement preservation treatments.

*Presented by Kevin Gaspard and Zhongjie "Doc" Zhang, LTRC*

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***The Transportation Awards Ceremony  
will be held in the River Center Ballroom  
from 9:55 a.m. - 10:50 a.m.***

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**[WEDNESDAY 11:00 a.m.–12:00 p.m.]**

## Session 71: Research - Swamp Tank

*Moderator: Tyson Rupnow*

*Meeting Room 2*

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If you are wanting to know what the result of a 6-Minute Pitch and a Shark Tank union would be, look no further than Swamp Tank! This session will present results from recently completed or ongoing research efforts in each of LTRC's major research areas in an easily digestible format. Presenters will have 6-minutes maximum to present the genesis of the study topic, general results, conclusions, and the implications to departmental policies, procedures, etc.

### **Decision Tool Suite for Pavement Preservation: Service Life and Costs/Benefits**

*Kevin Gaspard, LTRC*

### **Pile Setup Saving on Deep Foundation Design**

*Murad Abu-Farsakh, LTRC/LSU*

### **Internal Curing: Research Results and Implementation in Louisiana**

*Zachary Collier, LTRC*

### **Non-Destructive Density Determination for Asphalt Mixture Quality Assurance**

*David Mata, LTRC*

### **Visualizing Probe Data for Planning, Operations, & Performance Measures**

*Julius Codjoe, LTRC/LSU*

### **Diverted Traffic Measurement**

*Ravindra Gudishala, LTRC/LSU*

### **Safety Analysis of Seat Belt Use in Crashes**

*Jeff Dickey, LSU*

### **Live Load Rating of Cast-in-Place Concrete Box Culverts in Louisiana**

*Walid Alaywan, LTRC*

## Session 72: Continuous Improvement Program Changes

Moderator: Lisa Leonard

Meeting Room 3-4

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The session will be designed to illustrate QCIP's role, primarily for a LADOTD audience. The first 30 minutes will be a presentation on recent changes to QCIP, focused on changes in how QCIP Teams will be functioning and the reduced time commitment that will be required of Team members. It will also reference other tools and support that we can provide to other arms of LADOTD. The second thirty minutes will discuss our role in LADOTD's Strategic Planning and Performance Reporting. Each thirty minute block will include time for questions and answers.

### QCIP – A New Direction

Geoffrey Rodriguez, LADOTD

### Strategic Plan Updates

Wade Lester, LADOTD

## Session 73: Federal Disaster Relief

Moderator: John Broemmelsiek

Meeting Room 5-6

---

"Who's on First? What's on Second?" Each year Congress authorizes \$100 million for the FHWA Emergency Relief (ER) program and \$13 billion to FEMA for assisting State and Local Governments during a natural disaster. Unfortunately, these programs can sometimes be confusing to our partners. This session will cover FHWA and FEMA program requirements and ways we can participate and help shed some light on which Federal agency would be involved based on your roadway network.

### ER Overview

Josh Cunningham, FHWA

### FEMA

Nathan Elkins and Arsany Thomas, FEMA

## Session 74: 2016 Flood Events

Moderator: Chad Vosburg

Meeting Room 7-8

---

A focus on the unexpected events from the 2016 floods, including pictures of what was encountered, how LADOTD coordinated forces, the effects of the event on neighborhoods with regard to LADOTD, interaction with law enforcement, and more.

Presented by Chad Vosburg, LADOTD

## Session 75: Transit Services & Engineering Applications

Moderator: J.D. Allen

Meeting Room 9

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Learn about transit services in Louisiana and the benefits to our citizens. Gain a general understanding of the many applications of traffic engineering to transit service provision. Learn about the challenges and lessons learned during the RTA's Loyola Streetcar Expansion Project and their implementation during the design of the Rampart and Cemeteries streetcar line expansions.

### Introduction to Public Transportation Programs in Louisiana

Jamie Ainsworth, LADOTD

### Transit Services & Benefits

J.D. Allen, Alliance Transportation Group

### Transit Traffic Engineering Applications

Mark T. Ingram, Alliance Transportation Group

### Rail Transit Engineering in New Orleans

Martin Pospisil, TransDev Services

## Session 76: Preserving Treasured Assets, Including Our Workers

Moderator: Denise Graves

Meeting Room 10

---

This session will cover worker safety issues, with information on personal injuries and about entering confined spaces; how the Louisiana Scenic Byways Program is helping to preserve and share our culture and history; and best practices in roadside development.

### Safety Initiatives within the Highway Department

Chris McMorris, LADOTD

### Cultural Highways-Preserving the Stories of Louisiana through the Louisiana Byway Program

Doug Bourgeois, LA Department of Culture, Recreation, and Tourism

### Roadside Development Best Practices

Ryan Duhon, LADOTD

## Session 77: CADD Topics

*Moderator: Ryan Felder*

*Meeting Room 11*

---

Technology is changing the way roads are designed. OpenRoads is the future for LADOTD, which will hopefully lead to more accurate models for Intelligent Design and Construction (developing models that can be used as a deliverable to contractors) as well as eConstruction (an effort to go paperless).

### Preparing for OpenRoads

*Sam Nugent, CAD Productivity*

### Intelligent Design and Construction

*Jacob Loeske, Stanley Consultants*

## Session 78: Statewide Topographic Mapping Program

*Moderator: Jason Chapman*

*Meeting Room 12*

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Act 409 of the 2012 Louisiana Legislative Session amended R. S. 48:36-Topographic Mapping, mandating, in part, that LADOTD “develop and maintain a statewide digital geospatial database for topographic mapping with the assistance of other state agencies or departments. The department shall act as authority for geographic names, set standards for the mapping of topographic features, and plan and manage data collection for incorporation into a statewide database for topographic mapping.”

Pursuant to R. S. 48:36, LADOTD has established the Statewide Topographic Mapping Program, a large and complex program supported by technical expertise from several divisions of LADOTD, the Division of Administration’s Office of Technology Services, other state agencies, local government entities, federal government entities, and private industry. The program serves to facilitate the interoperability of geospatial data through collaboration of stakeholders from state, local, federal, and private partners. Likewise, the resultant products of the statewide geospatial data developed and maintained by LADOTD as part of the program have broad application at LADOTD and across state, local, federal, and private industry entities.

This session will discuss the activities associated with the development, implementation, and enhancement of the Program, as well as some of the aspirational capabilities envisioned from the Program.

### Topographic Mapping Requirements

*Brad Doucet, LADOTD*

### Establishing Topo Mapping Advisory Committee

*Brad Doucet, LADOTD*

### Data Collection Initiatives with LIDAR

*Brad Doucet, LADOTD, and Amar Nayegandhi, Dewberry*

## Session 79: Traffic Incident Management

*Moderator: Elizabeth Delaney*

*Meeting Room 13*

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Anatomy of an Incident: A behind-the-scenes reenactment of how the Motorist Assistance Patrol (MAP) and the Traffic Management Center (TMC) work together with other response agencies to manage a major traffic incident on the interstate. This session will focus on agency coordination in an everyday incident, but will also discuss the challenges each agency faces when responding to weather-related events.

### LADOTD’s Motorist Assistance Patrol Program

*Scott Evans, SERCO*

### Traffic Management Center (TMC) Operations

*Michael Muffoletto, Kapsch*

### Weather Responsive Traffic Management

*Rachel Anderson, Kapsch*

## Session 80: Designing Engaging Visuals

*Moderator: Patrick Frazier*

*Lower Level Meeting Room 1*

---

The Designing Engaging Visuals presentation will help participants combine elements of communication and art. Your visuals should communicate material in a way that facilitates learning. While you don’t have to be a famous artist to create engaging visuals, it helps if you think like one. This presentation will help you use the elements and principles of design to create effective visuals that are easy to understand, visually relevant, and aesthetically appealing. Upon completion of this presentation, participants will be able to create visuals using some of the basic elements and principles of design and apply basic design guidelines to increase audience understanding.

*Presented by Amy Ard and Julie Miller, LADOTD*

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## 2018 Louisiana Transportation Conference Documentation of Professional Development Hours

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Date and Time	Session Title	PDHs
Sunday, 2/25/2018 3:30-5:30 p.m., or Wednesday, 2/28/2018, 2-4 p.m. 2.0 PDHs available*	Standards of Practice for Boundary Surveys in Louisiana	
Monday, 2/26/2018 9:00 a.m.–11:15 a.m. 2.0 PDHs available*	General Session	
Monday, 2/26/2018 1:00 p.m.–2:45 p.m. 2.0 PDHs available*	Session 1: DOTD's Response to House Resolution 178 (2016)	
	Session 2: DOTD Permit & Agreement Processes	
	Session 3: Multimodal Commerce Drives Economic Growth	
	Session 4: Louisiana SHSP Overview & How it Drives the HSIP	
	Session 5: Bridge Painting	
	Session 6: Concrete - Session 1	
	Session 7: Moving into The Digital Age	
	Session 8: Maintaining DOTD's Assets	
	Session 9: Public Works & Water Resources	
Monday, 2/26/2018 3:15 p.m.–5:00 p.m. 2.0 PDHs available*	Session 11: Transportation Vulnerabilities in Changing and Subsiding Landscapes	
	Session 12: Managed Lanes and Tolling Operations	
	Session 13: Traffic Engineering - Session 1	
	Session 14: Curbing Roadway & Lane Departure	
	Session 15: CPM (Critical Path Method)	
	Session 16: Concrete - Session 2	
	Session 17: Audit and Contract Requirements	
	Session 18: Bridge Maintenance - Session 1	
Session 19: Records Management and Decision Support		

Date and Time	Session Title	PDHs
Tuesday, 2/27/2018 8:00 a.m.–9:45 a.m. 2.0 PDHs available*	Session 21: Student Presentations / Awards	
	Session 22: Practical Design / Design Guidelines	
	Session 23: Emergency Operations	
	Session 24: Data Integration for Strategic Investments	
	Session 25: Project Management	
	Session 26: Geotech - Session 1	
	Session 27: Bridge Load Rating	
	Session 28: Project Needs, Funding, and Delivery - Keys to Success	
	Session 29: Every Day Counts	
Tuesday, 2/27/2018 10:15 a.m.–12:00 p.m. 2.0 PDHs available*	Session 31: Materials Lab Updates – Aggregates, Cement, and Epoxy	
	Session 32: Traffic Engineering - Session 2	
	Session 33: ITS Maintenance and Communications	
	Session 34: Ped / Bike Planning with Safety in Mind	
	Session 35: Constructability and ICE	
	Session 36: Geotech - Session 2	
	Session 37: Recent Bridge Construction Projects	
	Session 38: Environmental	
	Session 39: Local Public Agencies	

\*2.0 PDH maximum assigned for each session based on anticipated contact time. If contact time is less than scheduled, PDHs are to be adjusted accordingly (50 minutes of contact time = 1PDH).

Date and Time	Session Title	PDHs
Tuesday, 2/27/2018 1:00 p.m.–2:45 p.m. 2.0 PDHs available*	Session 41: Compliance	
	Session 42: Access Management (RCUTs)	
	Session 43: Connected Vehicles / Autonomous Vehicles	
	Session 44: Legal Panel Discussion	
	Session 45: Contracts - Session 1	
	Session 46: Asphalt Pavement Density: Impacts and Specifications	
	Session 47: Bridge Design Manual, Standards & Specifications	
	Session 48: Incorporating State / Local Data for Enterprise GIS	
	Session 49: Americans with Disabilities - What You Need to Know	
Tuesday, 2/27/2018 3:15 p.m.–5:00 p.m. 2.0 PDHs available*	Session 51: Metropolitan Planning Organizations	
	Session 52: FHWA Transportation Performance Management Rules	
	Session 53: Multimodal Infrastructure <u>is</u> Transportation Infrastructure	
	Session 54: Mean, Lean, and Green: What Does it Take to Implement a Complete Street?	
	Session 55: Contracts - Session 2	
	Session 56: Synthesis on Tack Coat Specifications, Materials, Construction, and Testing	
	Session 57: Bridge Repair and Rehabilitation	
	Session 58: Implementing Enterprise GIS	
	Session 59: Moving from Data Collection to Information Use on the Local Transportation Network	

Date and Time	Session Title	PDHs
Wednesday, 2/28/2018 8:00 a.m.–9:45 a.m. 2.0 PDHs available*	Session 61: Bridge Maintenance - Session 2	
	Session 62: Advancements in Technology for 511 and Traffic Signal Operations in Louisiana	
	Session 63: Multimodal Infrastructure: Driving the Economy	
	Session 64: Roundabout Design and Construction	
	Session 65: DOTD Real Estate – Property Management / Partial Acquisition Costs	
	Session 66: Stepping into the Age of Automation	
	Session 67: Managing SUE Project Deliverables / Surveying With Unconventional Robotics	
	Session 68: Management Systems Updates	
	Session 69: Funding for Capital Projects	
Wednesday, 2/28/2018 11:00 a.m.–12:00 p.m. 1.0 PDHs available*	Session 71: Research - Swamp Tank	
	Session 72: Continuous Improvement Program Changes	
	Session 73: Federal Disaster Relief	
	Session 74: 2016 Flood Events	
	Session 75: Transit Services & Engineering Applications	
	Session 76: Preserving Treasured Assets, Including Our Workers	
	Session 77: CADD Topics	
	Session 78: Statewide Topographic Mapping Program	
	Session 79: Traffic Incident Management	
<b>TOTAL PDHs EARNED</b>		

Date and Time	Session Title	PDHs
Sunday, 2/25/2018, 4:30 p.m.-5:30 p.m. or Wednesday, 2/28/2018, 2:00 p.m.-3:00 p.m.   1.0 PDH available	Professionalism & Ethics for Engineers & Land Surveyors	
<b>TOTAL PDHs EARNED IN ETHICS</b>		

\*2.0 PDH maximum assigned for each session based on anticipated contact time. If contact time is less than scheduled, PDHs are to be adjusted accordingly (50 minutes of contact time = 1.0 PDH).

Total PDHs earned through attendance at the 2018 Louisiana Transportation Conference \_\_\_\_\_

PDHs earned in Professional Ethics at the 2018 Louisiana Transportation Conference \_\_\_\_\_

PDHs earned in Standards of Practice for Boundary Surveys in Louisiana at the 2018 Louisiana Transportation Conference \_\_\_\_\_

I hereby attest that I have attended the sessions documented on this form and that the cumulative PDHs total above is accurate.

\_\_\_\_\_  
Signature of Attendee

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