



2011 ODOT-OKTC TRANSPORTATION RESEARCH DAY

Tuesday, October 11, 2011

ODOT Commission Room

200 N.E. 21st Street, Oklahoma City, Oklahoma

Research, Education & Outreach, and Diversity posters are displayed from 11:00 a.m. until 2:30 p.m.

(*Tentative Schedule*) Registration: <http://www.eventbrite.com/event/2126270733>

Receive up to 8 Professional Development Hours (PDH) while attending this event



8:00 a.m. Continental Breakfast

8:30 a.m. Welcome and Opening Remarks by Tony Dark, P.E., OKTC Executive Director

8:45 a.m. Program Introduction by John Bowman, P. E., Moderator of Technical Session 1

8:50 a.m. Invited Lecture: *“Challenges and Opportunities for Transportation Engineering Research and Education”*, by Laurence R. Rilett, PE, Director, Nebraska University Transportation Center

9:20 a.m. Introduction to Research Needs

Technical Session 1

9:45 a.m. *“I-35 Instrumentation”*, Musharraf Zaman, Ph.D., P.E., Associate Dean for Research and Graduate Education, College of Engineering, The University of Oklahoma

10:10 a.m. *“Passive Non-Powered Sensors for Concrete based on Radio Frequency Identification Technology”* Nicholas Materer, Ph.D., and Allen Applett, Ph.D. Department of Chemistry; Tyler Ley, Ph.D., School of Civil and Environmental Engineering

10:35 a.m. **Break**

10:45 a.m. *“Continuous real-time measurement of compaction quality during the construction of full-depth asphalt pavements”*, Sesh Commuri, Ph.D., F. Beainy, Graduate Student, Asif Imran, Graduate Student, School of Electrical and Computer Engineering; D.V. Singh, Graduate Student, School of Civil Engineering and Environmental Science, and Musharraf Zaman, Ph.D., P.E., Associate Dean for Research and Graduate Education, College of Engineering College of Engineering, The University of Oklahoma.

11:10 a.m. *“Realistic Life Cycle Cost Analysis Using Typical Sequential Patterns of Pavement Treatments”*, David Jeong, Ph.D., School of Civil and Environmental Engineering, Oklahoma State University

11:30 a.m. *“Facilitating Inclement Weather Response Using Intelligent*

Transportation Systems”, Ronald Barnes, Ph.D., School of Electrical and Computer Science, The University of Oklahoma

Noon Lunch (Registration Required for Lunch)

1:30 p.m. Introduction of Afternoon Session by Tony Dark, P.E, Moderator of Technical Session 2

Technical Session 2

1:35 p.m. *“Use of MSE Technology to Stabilize Highway Embankments and Slopes in Oklahoma”*, Kianoosh Hatami, Ph.D., P.E., M.ASCE, School of Civil Engineering and Environmental Science (CEES), The University of Oklahoma

2:00 p.m. *“Rural Transportation Needs”*, Chongo Mundende, Ph.D., Center for Outreach Programs, Langston University

2:25 p.m. *“Next Generation Smart Barrel System for Workzone Safety Enhancement”*, Hernan Suarez, Graduate Student, Yan (Rockee) Zhang, Ph.D., and Sudantha Brahmana, Graduate Student, School of Electrical and Computer Engineering, The University of Oklahoma

2:50 p.m. *“Impact of Curing on the Performance of Concrete Pavements”*, Tyler Ley, Ph.D., Amir Hajibababee, Travis Ebisch, School of Civil and Environmental Engineering, Oklahoma State University

3:15 p.m. **Break**

3:30 p.m. Poster Awards Ceremony

Technical Session 3

3:45 p.m. *“Research Needs Assessment”*

4:45 p.m. Adjourn