



Presents an IECA Roadshow and Seminar on:



Innovative Erosion & Sediment Control Research & Field Day

Auburn, AL – May 29-30, 2014

In partnership with the International Erosion Control Association (IECA) University Partners Program, this event will showcase research being performed by various universities in the southeast geared towards solving erosion and sediment control problems in the construction sector. The primary goal of this seminar is to provide industry participants exposure to innovative research being performed on commonly employed erosion and sediment control practices in both horizontal and vertical construction. By sharing knowledge gained through research, industry participants will be better prepared to achieve environmental compliance. In addition, participants will gain knowledge in governing compliance regulations, leadership tactics, and hands-on design and implementation tools to provide efficient and effective erosion and sediment controls. Undergraduate and graduate students are also invited to attend this training to gain further exposure to the erosion and sediment control industry, various industry participants, and relevant research to the field.

The two day training effort will be divided into classroom and outdoor field instructional sessions. The classroom sessions will include presentations on: (1) U.S. Environmental Protection Agency's perspective on environmental compliance, (2) environmental leadership, and (3) the latest findings from cutting-edge research, being performed by Auburn University and other universities in the southeast, on effective erosion and sediment control practice implementation. The field instructional session will be held at the Auburn University Erosion and Sediment Control Testing Facility (AU-ESCTF) and provide attendees with a hands-on opportunity to: (1) learn proper installation techniques on various erosion and sediment controls to achieve improved performance, (2) observe full-scale, channelized flow testing demonstrations, and (3) interact with vendors and manufacturers of current erosion and sediment control products.

Please complete and return the enclosed registration form. A fee of \$250.00 per industry participant, \$500.00 (1 representative) or \$750 (2 representatives) per vendor participant should be mailed with your registration. Payment may be made by phone or fax if paying with Visa, MasterCard or government agency purchase order. The first 25 students to register for the event are admitted for free. **Registrants are reminded that registration is not complete until payment is made.** The registration fee includes handout materials, break refreshments, lunch, and a certificate of participation. Thank you for your continued support of the Alabama Technology Transfer Center. Rod Turochy, Larry Sellers, and Garry Havron look forward to your attendance at this seminar.

Seminar Schedule and Topics

Thursday, May 29th 2014

*The Hotel at Auburn University and Dixon Conference Center
241 South College Street, Auburn, AL 36830*

- 8:30 – 8:35 Welcome and Introduction
- 8:35 – 9:15 USEPA Perspectives on Sedimentation/Siltation Impairments: the NPDES Stormwater Program, MS4 Issues, and Watersheds – Mike Mitchell and CAPT Paul Gagliano, USEPA, Region 4
- 9:15 – 9:45 IECA University Partner Program: “One Big Bang” – Jimmy Eanes, IECA
- 9:45 – 10:00 BREAK
- 10:00 – 10:30 The Art of Managing Construction Stormwater – Barry Fagan, ALDOT
- 10:30 – 11:30 University Partners Research Presentations – North Carolina State University
- 11:30 – 12:00 Stream Enhancement and Restoration – Eve Brantley, Assistant Professor, AU
- 12:00 – 1:00 LUNCH
- 1:00 – 2:00 University Partners Research Presentation – University of Georgia
- 2:00 – 2:30 Eval. of Ditch Checks: Installation & Performance Comparisons – Wesley N. Donald, AU
- 2:30 – 2:45 BREAK
- 2:45 – 3:15 Assessing the Performance of Sediment Basins – Wesley C. Zech, AU
- 3:15 – 3:45 Inlet Protection Practice Evaluations and Improvements – Michael A. Perez, AU
- 3:45 – 4:00 Closing Remarks and Day 2 Overview – Wesley C. Zech, AU

Friday, May 30th 2014¹

*Auburn University Erosion and Sediment Control Testing Facility
1600 Lee Road 151, Opelika, AL 36804*

- 8:30 – 8:40 Welcome and Introduction (General Safety Topics)
 - 8:40 – 8:50 Construction Exit Pad (Station A)
 - 8:50 – 9:10 Stock Pile Management (Station B)
 - 9:10 – 9:30 Sediment Retention Barriers (Station C)
 - 9:30 – 9:45 BREAK
 - 9:45 – 10:05 Erosion Control Blankets (Station D)
 - 10:05 – 10:45 Ditch Check Practices [Off-Ramp Channel] (Station E)
 - 10:45 – 11:00 Silt Fence Installation / J-Hooks (Station F)
 - 11:00 – 11:10 Slope Interrupters (Station G)
 - 11:10 – 11:30 Slope Drains (Station H)
 - 11:30 – 12:30 LUNCH
 - 12:30 – 1:15 Sediment Basin (Stations: N, I, J)
 - 1:15 – 1:40 Inlet Protection Practices (Station M)
 - 1:40 – 2:10 Silt Fence Trencher (Station P)
 - 2:10 – 2:20 Floating Turbidity Barrier (Station O)
 - 2:20 – 2:35 BREAK
 - 2:35 – 3:35 Channelized Testing (Station L)
 - 3:35 – 4:00 Vendor Interaction / Free Time
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Note:

1. Event will be held rain or shine. Attendees are encouraged to wear appropriate footwear and bring a rain jacket with them to the field tour in case of rain.

Seminar Instructors

Eve Brantley, PhD, Assistant Professor, Water Resource Extension Specialist, Department of Crop, Soil, and Environmental Science, Auburn University
Wesley N. Donald, PhD, Research Associate, Department of Civil Engineering, Auburn University
Jimmy Eanes, CPESC, CESSWI, Director of Education, International Erosion Control Association (IECA)
Barry Fagan, PE/PLS, CPESC, Environmental Program Engineer, Alabama Department of Transportation
CAPT Paul Gagliano, PE, U.S. Public Health Service Officer, USEPA Region 4
Mike Mitchell, Regional Stormwater Expert, Surface Water Permits / Stormwater and Nonpoint Source Section, USEPA Region 4
Michael A. Perez, Graduate Research Assistant, Department of Civil Engineering, Auburn University
Wesley C. Zech, PhD, Brasfield & Gorrie Associate Professor of Construction Engineering and Management, Department of Civil Engineering, Auburn University

University Participants

North Carolina State Univ.; The Univ. of Tennessee; Univ. of Georgia, and one other university [TBD]

Continuing Education Units

Participants completing this seminar will receive 1.20 Continuing Education Units (CEUs). The CEU is a nationally accepted measure of continuing education credit and is awarded at the rate of one CEU for each ten contact hours of qualifying instruction. Auburn University makes every effort to ensure that its CEU granting programs conform to the requirements of the State of Alabama Board of Licensure for Professional Engineers and Land Surveyors for the award of Professional Development Hours to support the annual renewal of professional licensure.

Sponsorship

This seminar is one of the series of conferences and workshops being conducted as part of the Alabama Technology Transfer Center at Auburn University. This program is a part of the Local Technical Assistance Program (LTAP) supported by the Federal Highway Administration, the Alabama Department of Transportation and Auburn University.

This seminar is the 307th offered, with more than 40,000 attendees, since the program's inception in 1983. In addition to conducting training seminars, the T² Center also publishes a quarterly newsletter, distributes publications and maintains a lending library of videotapes on technical subjects. The Alabama Technology Transfer Center is administered at Auburn University through the Engineering Continuing Education office and the Department of Civil Engineering. For further information and suggestions for future programs, contact Rod Turochy, Department of Civil Engineering, at (334) 844-6271 or rodturochy@auburn.edu

Accommodation of Participants with Disabilities

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

Cancellation Policy

We understand that circumstances may arise that could require you to cancel your registration, and we make every effort to accommodate your needs. Due to commitments to our instructors and facilities, the registration fee is not refundable if a registrant withdraws less than five working days before the seminar. You may substitute registrants; please notify us in advance if possible. Non-paid, no show registrants will be invoiced for the full cost of the seminar. Engineering Continuing Education reserves the right to cancel or modify any program offering, but will provide registrants the option of a full refund. Auburn University will not be responsible for expenses incurred by a registrant as the result of a cancelled or rescheduled program.

Registration

Your pre-paid registration guarantees you a seat in the seminar as well as information on any changes to the seminar. Registration on the day of the seminar will be accepted on a space available basis, but enrollment will close when the capacity of the seminar is reached. **Participants are reminded that registration is not complete until payment is received.**

Registration Form

Innovative Erosion & Sediment Control Research & Field Day

☐ Auburn, AL May 29-30, 2014

Please print or type; register one person per form; photocopy if more forms are needed.

Name _____ Last Four Digits of SS# _____

Employer _____ Position _____

DOT Division/Bureau _____ Address _____

City _____ State _____ Zip+4 _____

Phone _____ Fax _____ E-mail _____

☐ **Participant Fee: \$250.00**

☐ **Vendor Fee: \$500.00 (1 person) OR ☐ \$750.00 (2 person)**

Sponsorship Opportunities:

☐ **\$1500.00 (Lunch sponsor and 2 Registrations)**

☐ **\$750.00 (Break sponsor and 1 Registration)**

Payment by: ☐ **Check (Payable to Auburn University)**

☐ **Visa** ☐ **MasterCard** ☐ **American Express** ☐ **Discover** ☐ **P.O. #** _____

Credit Card # _____

3-digit code # _____ **Expiration Date** _____

(On the back)

Cardholder's Name _____

Signature _____

Are you an Auburn Alumnus? ☐ **Yes** ☐ **No**

Return Registration Form and Payment to:

Engineering Continuing Education
217 Ramsay Hall
Auburn University, AL 36849-5331
Phone 1-800-446-0382 or (334) 844-4370
Fax (334) 844-5715
www.engce.auburn.edu

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Engineering Continuing Education
Samuel Ginn College of Engineering
217 Ramsay Hall
735 Extension Loop
Auburn University, AL 36849-5375

Innovative Erosion & Sediment Control Research & Field Day
• Auburn, AL – May 29-30, 2014

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Permit #530
Montgomery, AL



Innovative Erosion & Sediment Control Research & Field Day

Seminar Schedule and Topics

Thursday, May 29th 2014

The Hotel at Auburn University and Dixon Conference Center
241 South College Street, Auburn, AL 36830

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|---------------|---|
| 8:30 – 8:35 | <i>Welcome and Introduction</i> |
| 8:35 – 9:15 | <i>The NPDES Stormwater Program, Issues, Updates, and Watersheds</i>
CAPT Paul Gagliano, PE, US Public Health Service Commissioned Corps Officer, USEPA, Region 4
Mike Mitchell, Environmental Scientist, USEPA Region 4, Water Permits Division |
| 9:15 – 9:45 | <i>IECA University Partner Program: “One Big Bang”</i>
Jimmy Eanes, CPESC, CESSWI, CMP, IECA Education Director |
| 9:45 – 10:00 | <i>BREAK (SPONSORED BY HANES GEO COMPONENTS)</i> |
| 10:00 – 10:30 | <i>The Art of Managing Construction Stormwater</i>
Barry Fagan, PE/PLS, CPESC, ALDOT Environmental Program Engineering |
| 10:30 – 11:30 | <i>University Partners Research Presentations – North Carolina State University</i>
<i>Mulches and Polyacrylamide for Erosion Control: Results of >10 Years of Testing</i>
Dr. Rich McLaughlin, Professor and Extension Specialist, Department of Soil Science

<i>Title: Remediation to Improve Infiltration of Post Construction Soil</i>
Ms. Fatemeh Mohammad Shirazi, Graduate Student, Department of Soil Science |
| 11:30 – 12:00 | <i>University Partners Research Presentation – Auburn University</i>
<i>Stream Enhancement and Restoration</i>
Dr. Eve Brantley, Assistant Professor, Dept. of Crop, Soil and Environmental Sciences |
| 12:00 – 1:00 | <i>LUNCH (SPONSORED BY FLEXAMAT AND SUNSHINE SUPPLIES)</i> |
| 1:00 – 2:00 | <i>University Partners Research Presentations – University of Georgia</i>
<i>Field Research at UGA Related to Using Compost & Mulch for Erosion Control & Stormwater Mgmt.</i>
Dr. Mark Risse, Georgia Power Professor of Water Policy & Director of the Marine Extension Service

<i>Urban Water at UGA: Focus on Rain Gardens</i>
Ms. Laura Keys, Graduate Student, UGA Odum School of Ecology |
| 2:00 – 2:30 | <i>University Partners Research Presentations – Auburn University</i>
<i>Inlet Protection Practice Evaluations and Improvements</i>
Mr. Michael Perez, Graduate Student, Dept. of Civil Engineering

<i>Revolutionizing Site Inspections: War Eagle 007</i>
Mr. Michael Perez, Graduate Student, Dept. of Civil Engineering |
| 2:30 – 2:45 | <i>BREAK (SPONSORED BY THOMPSON ENGINEERING)</i> |
| 2:45 – 3:15 | <i>University Partners Research Presentation – Auburn University</i>
<i>Evaluation of Ditch Checks: Installation & Performance Comparisons</i>
Dr. Wesley Donald, Post-Doctoral Fellow, Dept. of Civil Engineering |
| 3:15 – 3:45 | <i>University Partners Research Presentation – Auburn University</i>
<i>Assessing the Performance of Sediment Basins</i>
Dr. Wesley Zech, Brasfield & Gorrie Associate Professor of Const. Engrg. & Mgmt., Dept. of Civil Engrg. |
| 3:45 – 4:00 | <i>Closing Remarks and Day 2 Overview – Dr. Wesley Zech</i> |

Innovative Erosion & Sediment Control Research & Field Day

Directions to AU-ESCTF @ NCAT from The Hotel at Auburn University

STARTING LOCATION:

The Hotel at Auburn University
241 South College Street
Auburn, AL 36830

ENDING LOCATION:

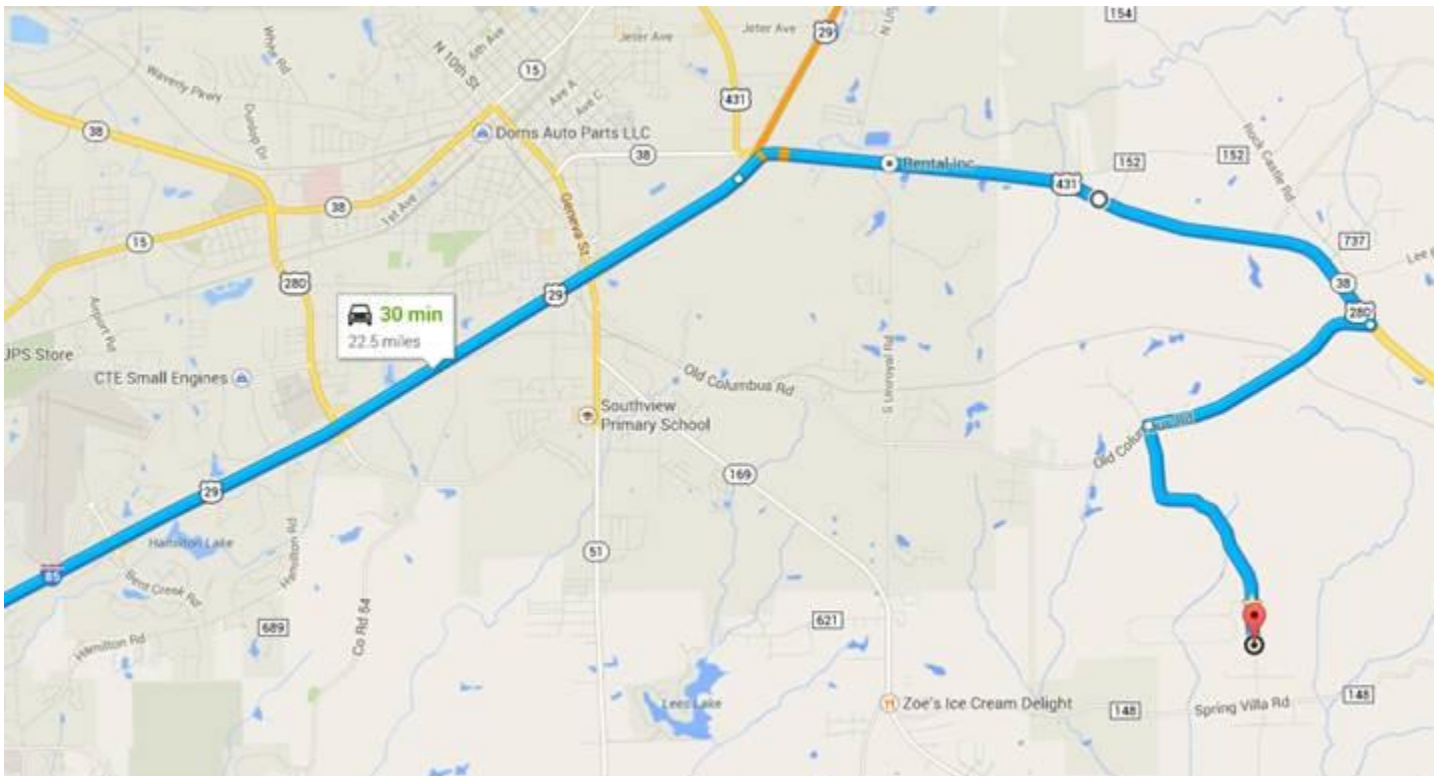
AU-ESCTF @ NCAT Pavement Test Track
1600 Lee Road 151
Opelika, AL 36804

Total Travel: 22.5 Miles / 30 Minutes

DIRECTIONS TO AU-ESCTF @ NCAT FROM THE HOTEL AT AUBURN UNIVERSITY:

1. Turn Left out of the Auburn Hotel onto S. College Street
2. Take S. College Street out of town towards I-85: Exit 51 **[3.5 miles]**
3. Turn LEFT onto I-85 N Ramp **[0.3 miles]**
4. Merge onto I85 N **[10.3 miles]**
5. Take EXIT 62 and turn RIGHT onto AL-1 S/US-280 E/US-431/Columbus Parkway towards Phenix City. You will see a green DOT sign that reads NCAT TEST FACILITY. **[4.7 miles]**
6. Take a RIGHT onto Old Columbus Road (Lee Rd 391). You will see a green DOT sign that reads NCAT TEST FACILITY. **[1.7 miles]**
7. Take a LEFT onto Lee Rd 151 (directly after Union Grove Baptist Church (white building) on left side of road) **[1.7 miles]**
8. You will see a green DOT sign that reads 'NCAT TEST FACILITY', which is the main entrance. Proceed past the main NCAT entrance and turn RIGHT into the 2nd entrance. There will be a sign that says AU-ESCTF on the gate of the 2nd entrance. **[0.25 miles]**
9. Parking attendants will be directly inside the gate and they will direct you to a parking spot.

Note: **[XX miles]:** indicates the approximate number of miles you need to travel before following the next set of directions.



Aerial Map of Step-by-Step Directions Starting from Step 4 Above.



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Seminar Schedule and Topics

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8:30 – 8:40	Welcome and Introduction (General Safety Topics)
8:40 – 8:50	Construction Exit Pad (Station A)
8:50 – 9:05	Stock Pile Management (Station B) Sponsored by Twin Oaks Environmental
9:05 – 9:30	Erosion Control Blankets / Sediment Retention Barriers (Station C) Sponsored by Sunshine Supplies
9:30 – 9:45	BREAK
9:45 – 10:25	Ditch Check Practices (Station D) Sponsored by American Excelsior, DDD Erosion, Geohay, Enviro-Pro, and SedCatch
10:25 – 11:00	Silt Fence Installation Practices (Station E) Sponsored by Twin Oaks Environmental
11:00 – 11:10	Slope Interrupters (Station F) Sponsored by Hanes Geo Components & East Coast Erosion Control
11:10 – 11:30	Slope Drains Demonstration (Station G)
11:30 – 12:30	LUNCH
12:30 – 12:45	Hydromulching Demonstration (Station H) Sponsored by Twin Oaks Environmental
12:45 – 1:15	Inlet Protection Practices (Station I)
1:15 – 2:00	Channel Lining and Sediment Basin (Stations: J, K) Sponsored by Flexamat and Applied Polymer Systems
2:00 – 2:15	BREAK
2:15 – 2:30	Sediment Basin Outlets (Station L)
2:30 – 2:40	Floating Turbidity Barrier (Station M) Sponsored by Aer-Flo
2:40 – 3:40	Channelized Testing (Station N)
3:40 – 4:00	Vendor Interaction / Free Time

event sponsors



vendor participants



Innovative Erosion & Sediment Control Research & Field Day



Aerial Map of AU-ESCTF Station Demonstrations