



MARCH 27, 2015, LEBANON, TN
APRIL 10, 2015, CHATTANOOGA, TN



Tennessee Stormwater Association Workshop

Introduction to Karst Geology: Site Design Considerations and Green Infrastructure Implications

TNSA Member \$35
Non Member \$45
*Includes Workshop,
Training Handouts,
Lunch, Morning and
Afternoon
Refreshments.*
[Register Here!](#)
6 PDHs available!

2 TNSA Workshops Locations

Friday, March 27, 2015

8:00 AM—5:00 PM
James E. Ward Agriculture
Center Conference Room
East/West Bldg
945 E Baddour Pkwy,
Lebanon, TN 37087

Friday, April 10, 2015

8:00 AM—5:00 PM
VW Conference Center
8001 Volkswagen Drive
Chattanooga, TN 37416

TENNESSEE
STORMWATER
ASSOCIATION



Tnstormwater.org
Phone: 615-418-7284



Register here:

<http://tnstormwater.org/blog/?p=1253>

Agenda

- 8:00 AM **Welcome and Introduction to the Workshop (J. Watson, P. Massey)**
- 8:15 AM **Introduction to Karst Terrains in Tennessee (H. Julian)**
 - ◆ Overview of karst distribution and features
 - ◆ Understanding karst hydrogeology
- 9:00 AM **Surface Water Connections in Karst Terrains (S. Jones)**
 - ◆ Interactions of ground water with surface water in karst settings in TN
 - ◆ Examples of interactions with urban surface water and karst groundwater systems
- 9:45 AM **Break**
- 10:00 AM **Mapped Karst Areas in East Tennessee for Road Projects (H. Moore)**
 - ◆ Planning, Testing, and Assessment for past Environmental Impact Statements on TDOT projects
 - ◆ Considerations on how Karst may affect Design
- 10:50 AM **Panel Discussion #1**
- 11:30 AM *Catered Lunch and Networking*
- 12:00 PM **Lunchtime Presentation: Cory Holliday, The Nature Conservancy**
- 12:35 PM **Policy and Regulation Related to Green Infrastructure (K. Bynum, S. Sorrells)**
- 1:00 PM **Karst Terrain and Sinkholes in East TN (D. Boles)**
 - ◆ What is Karst
 - ◆ Assessment
 - ◆ Mitigation
 - ◆ Horror Stories
- 2:00 PM **Break**
- 2:15 PM **Considerations for Site Designs in Local Karst Topography (M. Harrison)**
 - ◆ Online Resources
 - ◆ What Should Plans Reviewers Look for?
 - ◆ Karst and Brownfield Considerations
 - ◆ Stormwater Control Measures Specific Guidance
- 3:00 PM **Construction Considerations, Sinkhole Prevention, and Mitigation (M. Bivens)**
 - ◆ Green Infrastructure & Sinkhole Development (UT Campus Site)
 - ◆ What do you do when something goes wrong?
- 3:40 PM *(Lebanon only)* **Karst and Human Health Considerations (Dr. R. Taylor)**
- 4:20 PM **Panel Discussion #2**
- 4:50 PM **Wrap Up**

Speakers

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|--|------------------------------|---|
| Patrick Massey, <i>LDA Engineering</i> | Cory Holliday, <i>TNC</i> | Mark Harrison, <i>LDA Engineering</i> |
| Hank Julian, <i>S&ME</i> | Karina Bynum, <i>TDEC</i> | Mike Bivens, <i>Rembco Geotechnical</i> |
| Dr. Sid Jones, <i>TDEC BOE</i> | Scotty Sorrells, <i>TDEC</i> | Dr. Ritchie Taylor, <i>WKU</i> |
| Harry Moore, <i>Retired TDOT</i> | Dan Boles, <i>S&ME</i> | Dr. Jon Hathaway, <i>UT</i> |