

Nov 4	AGENDA		
8:00 a.m.	Golf Tournament at Montgomery Bell Golf Course		9am Mountain Bike Ride sponsored by Geosyntec Consultants
7:30 a.m.	Coffee Break in the Exhibit Room co-sponsored by ARCADIS U.S., Inc. & Hazen and Sawyer Environmental Engineers & Scientists		
	Room A	Room B	Room C
8:30 a.m.	Workshop: Demonstration of a SWAT Model Run in the Oostanaula Creek Watershed		Engineering Track
12:00 p.m.	Lunch with Keynote Speaker: Changing Hydrologic Systems-Thinking about Non-Stationarity of Streamflow and Water Quality, Bob Hirsch, USGS		
	Energy	Environmental Modeling for Habitat	Ecology/Biology
	Moderator: Chris Cox, UT	Moderator: John Schwartz, UT	Moderator: David Duhl, TDEC-DWR
1:30 p.m.	Water Management and Power Production in East Tennessee: An Assessment of Water-Energy Interactions and Policy. J. McKnight	Estimation of Wetland Elevations Based on Analysis of Daily Stages. R. Hunt	Watershed-Scale Estimation of Riparian Vegetation Impacts on Water Quality. H. Momm
2:00 p.m.	EPA Region 4-TDEC Energy Management Initiative for Water/Wastewater Utilities. J. Dodd	Estimation of Fish Spawning and Rearing Habitat Based on Analysis of Daily Stages Using the EnviroFish Computer Program. B. Bruchman	Hydrology and Soil Microbiology of Cedar Glade Ecosystems. J. Cartwright
2:30 p.m.	Reported Versus Estimated Water-use Data at Thermoelectric Power Plants in the Southeastern United States. M. Harris	Combined Application of Wetland and Fish Habitat Estimation Methods for the Tunica Lake Weir, Tunica, Mississippi. L. Lin	Structure of Diatom Assemblages and Primary Production in the Nutrient-Impaired Waters of the Red R. Watershed in North-Central TN. J. Lebkuecher
3:00 p.m.	Coffee Break in the Exhibit Room co-sponsored by Buchart Horn, Inc.		
	Flood	Beaver Creek Restoration	Reservoir
	Moderator: Michael Hunt, Metro Water Service	Moderator: Stefanie Farrell, Third Rock Consultants	Moderator: Daniel Saint, TVA
3:30 p.m.	Flood Elevations on the Alabama River. P. Dobbs	The Beaver Creek Watershed Restoration Initiative. R. Arthur	Improving Hydrologic Decisionmaking for the Tennessee Valley. C. Jawdy
4:00 p.m.	A Record of Sediment Erosion, Flood Frequency, and Sediment Contamination Analyzed from Fine Sediment Deposited in Caves and Sinkholes Draining an Urban Area. E. Hart	Restoring Pool-Riffle Structure in Beaver Creek, Knox County, Using a Hydraulic Modeling Approach for Urban Streams. J. Schwartz	Hydrothermal Forecasting in the Tennessee Valley. T. Boyington
4:30 p.m.	Establishing Design Basis Flood Levels at TVA Dams. M. Eiffe	Green Infrastructure Conceptual Planning and Policy Development Using EPA's SUSTAIN Model. J. Parker	Reelfoot Lake Hydrologic Controls and Spillway Operation. B. Cobb
5-6 p.m.	Vendor Equipment Demonstration Session at the dock behind the hotel restaurant		
6-8 p.m.	Dinner and Live Music in Rooms A&B		
Nov 5			
7:00 a.m.	Fun Run sponsored by Barge Waggoner Sumner & Cannon, Inc.		
7:30 a.m.	Coffee and Biscuits in Exhibit Room sponsored by AMEC Environment & Infrastructure, Inc.		
	Water Supply	Engineering Applications	Restoration
	Moderator: Scotty Sorrells, TDEC-DWR	Moderator: Alfred Kalyanapu, TTU	Moderator: Andrea Ludwig, UT
8:30 a.m.	Water Use in the Tennessee Valley for 2010 and Projected Use in 2035. A. Bowen	The Use of Polymer Enhanced BMPs to Combat Soil Erosion, Eutrophication, and to Meet Water Quality Standards. K. Iwinski	Urban Stream Restoration Design Utilizing a Threshold Channel Approach and Habitat Evaluation. W. Barry
9:00 a.m.	Only a Drop to Drink: Potable Water Efficiency through High Performance Building. S. Sawyer	Sidestream Treatment Alternatives for Nutrient Removal and Recovery at Wastewater Treatment Facilities. T. Datta	Stream Restoration in an Urban Watershed: Short Story, Small Town. K. Bynum
9:30 a.m.	Determining Optimum Coagulant Dose Using Laboratory Charge Measurement. A. Mancilla	Low Impact Design and the Soil Conundrum. C. Lacey	Improving Water Quality through Stream Restoration at Town Branch: An Urban Watershed Case Study. R. Turpin
10:00 a.m.	Coffee Break in Exhibit Room co-sponsored by Hach Hydromet & ARCADIS U.S., Inc.		
10a-12p	Poster Session in the Mezzanine--students and professionals will be available for questions		
	Stream Determination	Stormwater BMPs	Stream Channel Erosion
	Moderator: Paul Davis, P.E.	Moderator: Saya Qualls, Hazen and Sawyer	Moderator: Bill Wolfe, USGS
10:30 a.m.	History and Origins of TDEC's Stream Determination Process. D. Eagar	Comprehensive Watershed Assessment Communication Tool. M. Wooten	A Review of Erosional Processes along a River Continuum from Headwater to River Channels. Z. Seiden
11:00 a.m.	An Overview of TDEC Hydrologic Determination Procedures. A. Morbitt	Genetta Ditch Stormwater Treatment Wetland Design and Construction. B. Wood	Developing a Method to Determine Site-Specific Daily Streambank Erosion Using GPS-based Watershed Scale Video Mapping. K. Hensley
11:30 a.m.	Current Rules and Technical Criteria for Applying TDEC's Hydrological Determination Certification Program. J. Schwartz	Retrofitting Stormwater Infrastructure and Perceptions in a Conventional Suburban Development in East TN. A. Ludwig	Streambank Erosivity and Substrate Mapping using SVMS on the East Fork Poplar Creek. D. Wade

**Lunch with Luncheon Speaker in Rooms A&B: “The Forest Unseen: A Year’s Watch of One Square Meter of Forest,”  
David G. Haskell, Sewanee: The University of the South**

<b>Noon</b>			
	<b>LID</b> Moderator: Tom Lawrence, Water Quality Matters!	<b>Modeling Tools I</b> Moderator: Shawn Hawkins, UT	<b>Engineering Track</b> Moderator: Shannon Williams, USGS
<b>1:30 p.m.</b>	The LID Technology Selection Pyramid: Selecting a Green Infrastructure Design Approach. M. Miller	Evaluating the Performance of AnnAGNPS Model in Simulating Surface Runoff, Sediment Yield and Nutrient Loads: Case Study of Obed River Watershed. N. Alamdari	Use of Continuous Turbidity Monitoring Data to Identify Biological Impairment due to Suspended Sediment in East Tennessee Streams. R. Woockman
<b>2:00 p.m.</b>	Innovation in Simplified Green Infrastructure Design Criteria. S. Johnson	Applying DEM Correction Algorithm to Derive Synthetic Cross Sections for Flood Inundation Modeling for Cumberland River near Nashville. M. Bhuyian	Stories of Change: The Tennessee Healthy Watershed Initiative. S. Palmer
<b>2:30 p.m.</b>	Metro Water Service's New Volume (Volume 5) Stormwater Management Manual – First Year Experiences. M. Hunt	GIS Spatial Modeling of Flow Alteration in SE United States. P. Li	Analytical Determination of Sources of Organic Pollution in Natural Waters. J. Harwood
<b>3:00 p.m.</b>	<b>Coffee Break in the Exhibit Room</b>		
<b>3-3:30p.m.</b>	<b>Poster Session in the Mezzanine--students and professionals will be available for questions</b>		
	<b>LID Applications</b> Moderator: Jennifer Dodd, TDEC-DWR	<b>Modeling Tools II</b> Moderator: David Ladd, USGS	<b>Education</b> Moderator: John McClurkan, TDA
<b>3:30 p.m.</b>	Development and Application of a Low Impact Development Optimization Model to Determine Cost-Effective LID Strategies to Reduce Surface Runoff Volume. R. Clark	Nashville SAFE - The Annual Update (Flood Forecasting). R. Lindsey	The USGS Velocity Mapping Toolbox, An Overview of How VMT Can Improve the Data Processing and Presentation of ADCP Transects. D. Saint
<b>4:00 p.m.</b>	State of LID in Tennessee. A. Ludwig	Conversion from a Legacy Stream Course Model to an Industry Standard Model. A. Ward	A Study of Cattle Producer Preferences for BMPs in an East Tennessee Watershed. S. Hawkins
<b>4:30 p.m.</b>	City of Chattanooga LID/Green Infrastructure Projects. D.Green	Concentration-Discharge Relationships in the Coal Mined Region of the New River Basin and Indian Fork Sub-Basin, Tennessee. J. Murphy	The Hardest, Best/Worst Farm Project in Oostanaula Watershed. L. Reynolds
<b>5:00 p.m.</b>	<b>Poster Session in the Mezzanine: All Poster Presenters will be available for questions about their displayed poster</b>		
<b>6-8pm</b>	<b>Dinner and Live Music followed by TN AWRA Business Meeting in Rooms A&amp;B</b>		
<b>Nov 6</b>			
<b>7:30 a.m.</b>	<b>Coffee and Biscuits in Exhibit Room sponsored by TNWRRC/ISSE</b>		
	<b>TDEC</b> Moderator: Tom Allen, Neel-Schaffer, Inc.	<b>GIS Techniques and Tools</b> Moderator: Mike Bradley, USGS	<b>Erosion</b> Moderator: Tim Diehl, USGS
<b>8:30 a.m.</b>	Interpretation of Tennessee’s Narrative Color Criterion in an East Tennessee River. G. Denton	Applying Geographic Information System Techniques to Hydrologic Analysis. D. Ladd	Monitoring and Research to Evaluate Sediment Transport. W. Wolfe
<b>9:00 a.m.</b>	Recovery Potential Screening Tool. R. McGahen	Using a Digital Smartpen for Map Markups. D. Greene	The Effects of Highway Construction and a Major Flood on Benthic Invertebrate Communities in Middle Tennessee. D. Kathman
<b>9:30 a.m.</b>	GIS Integration and Data Management at TDEC. R. Cochran	Slap Your Utility Crew in the Face with these Mobile Apps. C. Hoeffner	Erosion and Sediment Control: A Linear Project Success Story - SR-840 from SR-100 to Columbia Pike. J. Hoilman
<b>10:00 a.m.</b>	<b>Coffee Break in Exhibit Room co-sponsored by the Tennessee Stream Mitigation Program</b>		
<b>10:30 a.m.</b>	<b>Panel: Connecting Water Science to Decisions</b>		<b>Engineering Track</b>
	Scott Gain, Director, U.S. Geological Survey, Tennessee Water Science Center		
	Greg Wathen, Coordinator, Gulf Coastal Plains & Ozarks LCC, Tennessee Wildlife Resources Agency		
	Sandra K. Dudley, P.E., Ph.D., Director, TDEC, Division of Water Resources		
	Paul Sloan, Cumberland River Compact		
	Sally Palmer, Director of Science, The Nature Conservancy		
<b>Adjourn</b>			