

TVA-AWRA River Science Conference 2016

TVA is co-hosting an advance program in cooperation with the Tennessee Section of the American Water Resources Association. The TVA program will focus on sharing of our recent research and development with interested stakeholders and scoping of partnering opportunities to best meet the diverse needs of stakeholders in our river management mission.

TVA will be providing a wide range of new tools that may be of great benefit to groups such as water suppliers, regulators, floodplain managers, small dam owners, biologists, researchers, policy makers and river users. We look forward to the opportunity to understand the challenges your organizations face in meeting the growing demands on regional water resources, and planning how we can best meet these challenges as a profession. We have assembled a talented and interesting slate of speakers. The agenda follows. Please register for the conference at the Tennessee AWRA conference website.



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APRIL 11	ROOM A/B	
1:00 p.m.	Kickoff and Welcome – Curt Jawdy	
1:30 p.m.	River Management Introduction – Tom Barnett	
2:00 p.m.	Aquatic Monitoring Introduction – Dennis Baxter	
2:30 p.m.	Dam Safety Introduction – Dr. Chris Saucier	
3:00 p.m.	Coffee Break in the Exhibit Room	
	<p align="center">Panel on Challenges Facing the Water Management Community Moderators: James Everett</p>	
3:30 p.m.	<ul style="list-style-type: none"> • TVA River Management – Tom Barnett • Oak Ridge National Laboratory – Dr. Brennan Smith • National Water Center – Ed Clark • US Corps of Engineers – Ben Rohrbach • TVA Aquatic Monitoring– Dennis Baxter • US Geological Survey – Scott Gain 	<ul style="list-style-type: none"> • TDEC – Jennifer Dodd • TVA Dam Safety – Dr. Chris Saucier • Appalachian Landscape Conservation Cooperative – Dr. Mary Davis • Nature Conservancy – Sally Palmer • FEMA Region IV – Mark Vieira • University of Tennessee – Dr. John Schwartz
6:00 p.m.	<p align="center">Dinner Speaker: Dr. Bill Landry Topic: Once, upon the Tennessee...</p>	



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APRIL 12	ROOM A/B
7:30 a.m.	Coffee and Biscuits in the Exhibit Room
	Recent Advances to Share Moderator: Curt Jawdy
8:30 a.m.	New PMP and Precipitation Frequency Datasets – Shaun Carney
8:40 a.m.	New Hydrology Model – Gabe Miller
8:50 a.m.	New Hydraulic Models – Morgan Ruark
9:00 a.m.	New Dam Safety Risk Management Framework – Dara Parker
9:10 a.m.	New Emergency Action Plans – Brad Haynes
9:20 a.m.	New River Forecast System – Nathan Barber
9:30 a.m.	Hydrothermal Upgrades – Dr. Matt Boyington
9:40 a.m.	Water Supply Data and Mapping – Gary Springston
9:50 a.m.	Paleohydrology and Other Projects– Curt Jawdy
10:00 a.m.	Coffee Break in the Exhibit Room



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APRIL 12	ROOM A/B
	<p align="center">Partner Updates Moderator: Tom Barnett</p>
10:30 a.m.	U.S. Army Corps of Engineers – Ben Rohrbach
10:40 a.m.	National Weather Service – Suzanne Van Cooten
10:50 a.m.	U.S. Geological Survey – Dr. William Wolfe
11:00 a.m.	National Water Center – Ed Clark
11:10 a.m.	Oak Ridge National Laboratory – Dr. Brennan Smith
11:20 a.m.	University of Tennessee – Dr. John Schwartz
11:30 a.m.	State NFIP Coordinator – Amy Miller
11:40 a.m.	Tennessee Cumberland River Industry Committee – Billy Poindexter
11:50 a.m.	Tennessee Department of Environment and Conservation – Jennifer Dodd
Noon	<p align="center">Lunch Speaker: Ed Clark Topic: River Science Collaboration and National Water Center</p>



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APRIL 12	BREAKOUT SESSION - ROOM A	BREAKOUT SESSION – ROOM B	BREAKOUT SESSION – ROOM C
1:00 p.m.	<p>Flood Damage Reduction Opportunities Moderator: Carrie Williamson/Brad Haynes</p>	<p>Water Supply Opportunities Moderator: Gary Springston</p>	<p>H&H Modeling Opportunities Moderator: Morgan Ruark</p>
	<ul style="list-style-type: none"> • TVA – Carrie Williamson • NWS – Suzanne Van Cooten • Chattanooga MS4 – Mark Heinzer • Tennessee NFIP – Amy Miller • TVA – Brad Haynes • Roundtable 	<ul style="list-style-type: none"> • USGS – Melissa Harris • UT – Dr. John Schwartz • TVA – Amanda Bowen • TVA – Gary Springston • USACE – Ben Rohrbach • Roundtable 	<ul style="list-style-type: none"> • USACE – Brantley Thames • FEMA Region IV – Mark Vieira • TVA – Morgan Ruark • NWS – Dave Welch • RTi – Gabe Miller • Roundtable
3:00 p.m.	Coffee Break in the Exhibit Room		
3:30 p.m.	<p>Realtime Data Sharing Opportunities Moderator: James Everett</p>	<p>Water Quality & Environmental Opportunities Moderator: Shannon O’Quinn</p>	<p>Open Slot for Partnering Discussions Moderator: TBD</p>
	<ul style="list-style-type: none"> • NWS – Suzanne Van Cooten • USACE – Jeff Gregory • USGS – Shannon Williams • TVA – Nathan Barber • National Water Center – Ed Clark • TVA – James Everett • Roundtable 	<ul style="list-style-type: none"> • TDEC – Sherry Wang • Nature Conservancy – Sally Palmer • TVA – Evan Crews • TVA – Dr. Matt Boyington • TWRA – Bill Reeves • Appalachian LCC – Dr. Mary Davis • Stantec – Dr. Fangbiao Lin • Roundtable 	
6:00 p.m.	<p>Dinner Speaker: Dr. Jay Day</p>		



Topic: Future Directions for Water Management & Conference Recap



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Dinner Speaker for 4/11: Dr. Bill Landry

Bill Landry is the voice, host/narrator, and co-producer of The Heartland Series, now in its 31st year of running on WBIR-TV, in Knoxville, TN. Since it began in 1984, over 1,900 short features have been produced, including 150 half-hour specials.

A graduate of Trinity University, with a MFA degree, and a BA in literature from the University of Tennessee at Chattanooga, Bill has received 2 Emmy Awards for directing, and the Education in Appalachia Award from Carson Newman College. He has also received an Honorary Doctorate in Humanities from Lincoln Memorial University and the Distinguished Alumni Award from Univ. of Tn., Chattanooga.

For over thirty years Bill has written, produced, and performed in his one-man play "Einstein the Man" which has been presented over 1000 times in 38 states and 2 provinces of Canada. In 2003, Bill produced The George Washington Carver Project.

In 2009, Bill premiered "William Bartram – An Unlikely Explorer" for the 75th Anniversary of the founding of The Great Smokey Mountain National Park, which tells the tale of little known 18th century explorer, adventurer, and naturalist, William Bartram. In 2011, Celtic Cat published Bill's first book, "Appalachian Tales & Heartland Adventures" followed by "Tellin' It For the Truth" in 2013, along with a children's book "Buddy, Dog of the Smoky Mountains."

Bill is deeply rooted in the Appalachian region, and is a member of the Tennessee Historical Commission, having been appointed by Gov. Bill Haslam. In addition to his guest speaking, he continues to perform "The Talk is Cheap Tour" throughout the region with storytellers: Sam Venable, Elizabeth Rose and Jimmy Claborn. He's married to Sandra Weaver and they live happily in Knoxville, Tennessee.



"Once, upon the Tennessee..." is the title of Bill Landry's talk for the Tennessee Valley Authority at Montgomery Bell State Park in April.

Bill will draw upon his experience producing hundreds of short television features on East Tennessee's rivers and streams during his 32-year career in television. Highlights will include clips from "Downstream, From the Mountains to the Ocean," for WBIR-TV's "The Heartland Series," where the TV crew follows a drop of water from the top of Clingman's Dome to the Gulf of Mexico; the Series won an Emmy Award for this major production. Bill will draw upon other adventures in creating "The Water Planet," production, along with stories and tales about Navigating the Tennessee.

Bill was also a real, 'live,' fake Riverboat Captain during the World's Fair and on TVA's "Valley Adventure" exhibit during the World's Fair and 50th Anniversary River Trip down the Tennessee up the Cumberland to Paducah, Kentucky.

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Lunch Speaker for 4/12: Ed Clark

Edward (Ed) Clark is the Director of the NOAA National Water Center's (NWC) Geo-Intelligence Division. The NWC Geo-Intelligence Division is responsible for providing centralized and consistent data services, geospatial analyses, and cartographic expertise to support science and engineering development, systems implementation, and water resources operations at local, regional, national and global scales. GID collaborates with partners and supports NWC and field operations, external partners, customers and stakeholders, and corporate knowledge management. Prior to joining the NWC, Ed has served in NWS Headquarters as the National Flash Flood Service Leader. Prior to his tenure at NWS HQ, Ed had over seven years of experience as an operational hydrologic forecaster, working as a Senior Hydrologist at the Colorado Basin River Forecast Center in Salt Lake City. Ed's background is in civil engineering with an emphasis on water resources and hydrology.



Ed will speak on improving the collaboration between water management agencies. He has unique experience in this arena as he is presently helping lead the stand-up of the National Water Center in Huntsville, AL.

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Dinner Speaker for 4/12: Dr. Jay Day

Dr. Jay Day is a Principal at Riverside, where he has worked since 1992. He has over thirty-five years of experience in hydrometeorological data analysis, watershed modeling, water resources engineering, and water management. He has extensive domestic and international experience in implementing software systems in support of water management planning and real-time operations. Previously, Jay worked as a Research Hydrologist at the National Weather Service. As the NWS Water Resources Forecasting Project Area Leader, he participated in the development of the NWS River Forecasting System and led the development of the Ensemble Streamflow Prediction (ESP) System.

Jay's education includes a B.S. in Civil Engineering from the University of Maryland, a M.S. in Civil Engineering from the Georgia Tech, and a Ph.D. in Geography and Env. Engineering from Johns Hopkins.



Jay will speak on future directions for water management, drawing on his long experience with a wide range of influential water management agencies. He will recap the conference and leave attendees with some ideas to ponder until the next conference.