

# 26th Tennessee Water Resources Symposium

## Call for Abstracts, Posters, Exhibitors & Sponsors

Including a pre-symposium workshop:

### Intro to WASP Model

Tim Wool, EPA Region IV



Montgomery Bell State Park  
Burns, Tennessee  
April 5-7, 2017

**Keynote Speaker:** Will Harmon, Stream Mechanics

**Luncheon Speaker:** Barry Thacker, Schnabel Engineering

### Planning Committee

- Tom Allen, TNAWRA Treasurer/Neel-Schaffer, Inc.
- Ken Barry, S&ME, Inc.
- Paul Davis, Cumberland River Compact Board of Directors
- David Duhl, TNAWRA President/TDEC, Division of Water Resources
- Michael Hunt, Nashville Metro Water Services
- Deedee Kathman
- Alfred Kalyanapu, TNAWRA President-Elect/TTU
- Rodney Knight, TNAWRA Past President/  
U.S. Geological Survey
- Tom Lawrence, Water Quality Matters!
- Ingrid Luffman, ETSU, Geosciences
- Regan McGahen, TNAWRA Secretary/TDEC-DWR
- Patrick McMahon, S&ME, Inc.
- Daniel Saint, Tennessee Valley Authority
- Scott Schoefernacker, CAESER
- John Schwartz, UT, Civil & Environmental Engineering
- Forbes Walker, University of Tennessee, Biosystems  
Engineering & Soil Science
- Sherry Wang, TDEC, Division of Water Resources
- Adrian Ward, Barge Waggoner Sumner & Cannon, Inc.
- Lori Weir, TNAWRA Membership Chairperson/U.S. Geological  
Survey
- Mike Williams, Barge Waggoner Sumner & Cannon, Inc.



Photo courtesy of Shane Stocks, USGS

### Hosted by

Tennessee Section of the American  
Water Resources Association

### Symposium Chair

David Duhl, President TNAWRA  
TDEC, Division of Water Resources  
Email: [david.duhl@tn.gov](mailto:david.duhl@tn.gov)  
Tel: (615) 532-0438

# Call for Oral and Poster Abstracts

(Due December 30, 2016)

Abstracts for consideration for presentation at the 26<sup>th</sup> Tennessee Water Resources Symposium will be accepted through **December 30, 2016**. Abstracts must address water resource issues relevant to the Southeast Region.

## Oral Presentations April 5-7, 2017

Oral presentation will be limited to a 20-minute talk with a 10-minute question-and-answer session.

## Poster Session April 6, 2017

**NOTE:** Poster session times and requirements.

Poster presentations are an opportunity for students, from high school to graduate school, to get involved and show some of the work that they have been doing.

### DETAILS FOR PRESENTERS:

- Due to space limitations, the poster session will be limited to 20 student posters. Selection of poster presentations will be based on the quality and content of the abstracts submitted.
- Poster should be no larger than 30" x 40" and does **NOT** need to be mounted on foam board (BOARDS WILL BE PROVIDED at the symposium).
- Poster must include an abstract.
- All posters must be displayed by 9:30am on Thursday and remain in place until awards are presented that evening.
- Presenters must be present during poster sessions and be prepared to give a brief synopsis (5 minutes or less) to the poster judges. Poster sessions are: **10:00am-12:00pm / 5:15-5:45pm**.

**JUDGING:** Posters will be judged by 3 to 5 professionals from various backgrounds who are attending the symposium. Posters are given scores for each of the following categories: Abstract, presentation of the material, technical content of the poster, topic originality, and format/style. (Note: If you are not affiliated with a university or a student poster presenter and would like to be a judge, please send email to [Regan McGahen](mailto:Regan.McGahen@usgs.gov).)

**AWARDS:** Awards and certificates are given to the best student poster in three different categories: High School, Undergraduate, and Graduate. Symposium attendees will also vote for a "People's Choice Poster Award". Awards will be presented following dinner at the Tennessee Chapter Annual Business Meeting.

## Abstracts for Oral and Poster Presentation

Upon acceptance, you will have the opportunity to prepare and submit an extended abstract. Abstracts will be included in the proceedings of the Symposium. The proceedings will be released online. All abstracts must comply with submission guidelines. The extended abstracts are due February 13, 2017. If an extended abstract is not submitted, the short abstract will be used.

### Steps to submit an abstract for oral or poster presentation:

1. Prepare your abstract in Word according to the guidelines at: <http://tnawra.er.usgs.gov/2017/presenter.html>
2. Fill out the online application and attach your abstract: <http://tnawra.er.usgs.gov/Submit/Submit.html>
3. Register for the Symposium by March 20, 2017 <http://tnawra.er.usgs.gov/Submit/TWRS-Reg.html>

**Applicants will be notified of acceptance by January 26, 2017.**

All presenters are required to register for the Symposium. The presenter registration fee is \$100 if received before 3/20/17; after this time the registration fee is \$120. Student registration is \$30. The full registration package will be sent out separately in February.

Nominations Sought:

## Distinguished Service Award

(All nominations must be received by February 22, 2017.)

The Tennessee Section of AWRA is seeking nominations for the Distinguished Service Award to recognize an individual who has made significant contributions to enhance the quality of water resources in Tennessee. All nominees must be a past or present member of the Tennessee Section.

The Awards Committee will select one candidate from the nominations and will present the award at the annual business meeting held during the 26<sup>th</sup> Symposium. Instructions and nomination forms can be downloaded at <http://tnawra.er.usgs.gov/current/DistinguishedServiceAwardForm.p>

### Schedule Outline

Schedule Outline	
Wednesday	<ul style="list-style-type: none"> <li>• Intro to WASP Model</li> <li>• Lunch</li> <li>• Welcome</li> <li>• Keynote</li> <li>• Breakout sessions</li> <li>• Vendor demonstrations</li> <li>• Dinner, entertainment &amp; movie</li> </ul>
Thursday	<ul style="list-style-type: none"> <li>• Morning breakout sessions</li> <li>• Lunch with presentation</li> <li>• Afternoon breakout sessions</li> <li>• Poster session</li> <li>• Dinner &amp; live entertainment</li> <li>• TNAWRA business meeting</li> </ul>
Friday	<ul style="list-style-type: none"> <li>• Breakout sessions</li> <li>• Panel discussion</li> </ul>

**AGAIN**  
Wednesday has been extended. We've added a workshop and lunch.

If you have questions, please contact Lori Weir at (615) 837-4720 or [lrweir@usgs.gov](mailto:lrweir@usgs.gov).

**Entertainment**

We're lining up live entertainment for both evenings.



**THANK YOU**

A very special thanks is extended to last year's sponsors and exhibitors.

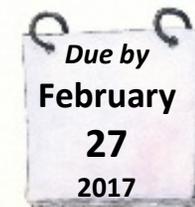
**25<sup>th</sup> TWRS Sponsors**

**25<sup>th</sup> TWRS Exhibitors**

AMEC Environment & Infrastructure, Inc.	Civil & Environmental Consultants	AMEC Foster Wheeler Environment & Infrastructure, Inc.	Stevens Water Monitoring Systems, Inc.
ARCADIS U.S., Inc.	KCI Technologies	Aquatics Informatics	Suntree Technologies, Inc.
ASCE Tennessee Section/EWRI	Neel-Schaffer, Inc.	Center for the Management, Utilization and Protection of Water Resources, TTU	Sutron Corporation
Barge, Waggoner, Sumner & Cannon, Inc.	OTT Hydromet	Eureka Water Probes	Trutta Consulting, LLC
Center for Applied Earth Science & Engineering Research (CAESER)	Stevens Water Monitoring Systems, Inc.	Hydrologics	TTU, Informatics Professional Science Master's Program
Center for the Management, Utilization and Protection of Water Resources, TTU	Trutta Consulting	In-Situ, Inc.	UT, Water Resources Research Center/ISSE
	UT, TN Water Resources Research Center	OTT Hydromet	Water and Land Solutions
		S&ME, Inc.	Water Quality Matters!
			Xylem/YSI

**Call for 2017 Sponsors**

Every year, TN AWRA asks companies to sponsor breaks, lunches, dinners, students, and special events. These sponsorships help keep costs down. Please consider these sponsorship and co-sponsorship opportunities.



#	Date	Sponsorship	Full	Co	#	Date	Sponsorship	Full	Co
1	4/5/17	Morning coffee & tea	\$500	\$250	11	4/6/17	Dinner	\$4,000	\$2,000
2	4/5/17	Lunch	\$3,000	\$1,500	1	4/6/17	After Dinner Beverages	\$1,000	\$500
3	4/5/17	Afternoon coffee, tea, & sodas	\$600	\$300	13	4/6/17	Mountain Bike Ride	*	
4	4/5/17	Dinner	\$4,000	\$2,000	14	4/7/17	Morning coffee & sausage biscuits	\$750	\$375
5	4/5/17	After Dinner Beverages	\$1,000	\$500	15	4/7/17	Mid-morning coffee, soda, & cookies	\$600	\$300
6	4/6/17	Morning coffee & sausage biscuits	\$750	\$375	16		Student Sponsorships (in multiples of \$100)		
7	4/6/17	Mid-morning coffee, tea, & soda	\$600	\$300	17		Overall sponsor ___ \$500 ___ \$750 ___ \$ 1,000		
8	4/6/17	Lunch	\$5,000	\$2,500	18		Nonprofit Watershed Association Registrations \$ _____		
9	4/6/17	Afternoon tea, soda, & cookies	\$750	\$375	19		Proceedings Compilation		
10	4/6/17	Fun Run	*						

**Sponsor Checklist:**

\_\_\_ Fill out this form and mail it to: TN AWRA, Attn: Lori Weir, c/o USGS, 640 Grassmere Park, Suite 100, Nashville, TN 37211 along with sponsorship payment.

**Email the following information to Lori Weir at lrweir@usgs.gov:**

\_\_\_ A high resolution electronic copy (.jpg) of your company's logo. The logo may be used on the backs of T-shirts, on posters, and in the online proceedings. Please state in the email that we have permission to use your logo in this manner.

\_\_\_ A 50-word company descriptive paragraph which can be used in the online proceedings.

\*The cost of the Fun Run/Mountain Bike Ride will depend on the prize(s) offered by the sponsoring company.

Name \_\_\_\_\_ Sponsor #(s) \_\_\_\_\_ Phone \_\_\_\_\_  
 Title \_\_\_\_\_ Full or Co (circle one) \_\_\_\_\_ FAX \_\_\_\_\_  
 Company \_\_\_\_\_ Amount enclosed: \_\_\_\_\_ Email \_\_\_\_\_  
 Address \_\_\_\_\_ \$ \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Please remit in U.S. funds (check/money order), payable to "Tennessee Section AWRA" or charge:

\_\_\_ Check \_\_\_ Visa \_\_\_ M/C \_\_\_ Discover \_\_\_ Amex Card Number \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 Exp. \_\_\_\_\_ Security Code (3-4 digits on back) \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

Card Holder Name (please print) \_\_\_\_\_

Online Sponsor registration: <http://tnawra.er.usgs.gov/Submit/OnlineRegExhSpons.html>

# Call for 2017 Exhibitors

Attendees of the Symposium represent a wide array of water professionals in Tennessee, and exhibiting provides a great opportunity to interact with potential key customers. Last year over 300 professionals from Federal and State water resource agencies, consulting firms, universities, municipalities, and citizen interest groups attended the Symposium. An exhibit fee of only \$350 gives exhibitors an excellent opportunity to showcase new technologies and meet new contacts.

## APPLICATION FOR EXHIBIT SPACE and CONTRACT

American Water Resources Association's 26<sup>th</sup> Tennessee Water Resources Symposium  
 April 5-7, 2017 \* Montgomery Bell State Park \* Burns, Tennessee (just west of Nashville)  
*Please type or print clearly*



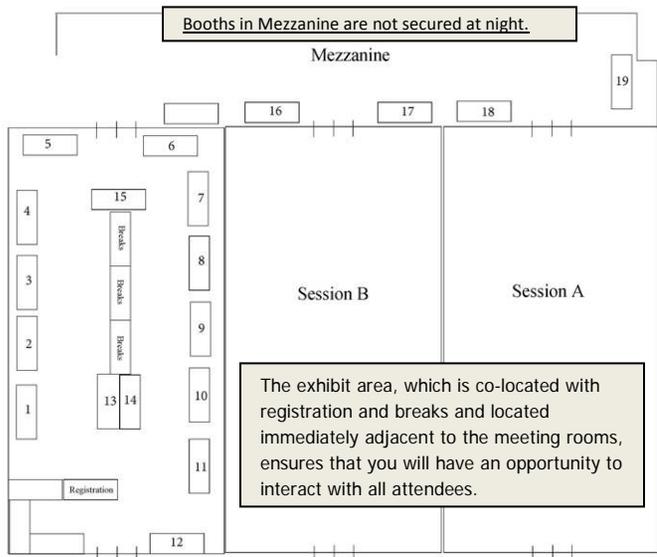
Company Name \_\_\_\_\_ (ONE COMPANY ALLOWED PER EXHIBIT SPACE)  
 Contact Person \_\_\_\_\_ Phone \_\_\_\_\_ Email \_\_\_\_\_

**Online Exhibitor registration:** <http://tnawra.er.usgs.gov/Submit/OnlineRegExhSpons.html>

### Exhibit Schedule\*:

Set Up	Tuesday	April 4	3:00p-6:00p
Set Up	Wednesday	April 5	7:00a-8:00a
Show	Wed-Thurs	April 5-6	8:00a-6:00p
Show	Friday	April 7	8:00a-12:00p

\*Peak times will be during registration and breaks.



Names of Individual(s) Servicing the Exhibit Space	
(1) Included in Exhibit Fee of \$350:	
Name: _____	
Address: _____	
City/State: _____	Zip: _____
Phone: _____	Email: _____
(2) Additional \$75:	
Name: _____	
Phone: _____	Email: _____
NOTE: Only 1 additional person may be added for \$75. Any more are at regular registration fee.	

Number of Exhibit Areas Needed \_\_\_\_\_  
 Exhibit Space Preferences \_\_\_ 1st; \_\_\_ 2nd; \_\_\_ 3rd  
 (Spaces cannot be guaranteed. Spaces subject to change.)  
 Please remit in U.S. funds (check/money order),  
 payable to "TN AWRA" or charge: \_\_\_ Visa \_\_\_ M/C \_\_\_ Discover \_\_\_ Amex  
 Card Number \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
 Exp. \_\_\_\_\_ Security Code (3-4 digits on back) \_\_\_\_\_  
 Card Holder Name \_\_\_\_\_

Signature \_\_\_\_\_ (please print) Date \_\_\_\_\_

**FULL PAYMENT IS DUE WITH THIS APPLICATION**

### CONTRACT SIGNATURE:

Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_

I have read Rules and Regulations, including the "Liability" clause, and understand that additional services, other than those illustrated under "Exhibit Rental," if available, must be arranged in advance with Lori Weir at (615) 837-4720. I agree to abide by all terms, conditions, and regulations set forth in this invitation to exhibit.

### Rules and Regulations for Exhibitors

The following practices are prohibited:

- Noisy electrical or mechanical apparatus that interferes with other exhibits.
- Volatile or flammable oils, greases, materials, or other explosives, or any substances prohibited by the city laws or insurance carriers, are not permitted on the premises.
- Subleasing of exhibit space.
- Canvassing or distributing any material outside of the exhibitor's associated space.
- Use of billboard advertising or displays of signs outside the exhibit area.
- Solicitation of business, or conferences in the interest of business, except by exhibiting firms, is prohibited.
- Publicizing and monitoring of any extracurricular activities, inducements, demonstrations, or displays outside the exhibit area during exhibit hours.
- Attaching anything to the wall(s). Montgomery Bell State Park must grant authorization first (a fee may apply).

TN AWRA reserves the right to refuse the application of any company not meeting the required standards, as well as the right to curtail exhibits or parts of exhibits that detract from the character of the meeting. This authority also applies to displays, literature, advertising novelties, souvenirs, and personal conduct.

TN AWRA reserves the sole and exclusive right to amend, modify, or change, from time to time, the rules and regulations herein contained so as to effect the terms and conditions of the agreement, and upon reasonable notice to the exhibitor, the exhibitor agrees to comply with such amendments, modifications, or changes as if fully and originally written herein.  
**EXHIBIT RENTAL:** Fees are \$350 per exhibit area, which includes (1) one 8 ft. draped table with two chairs and electricity, (2) admission to all technical sessions (Wednesday-Friday), lunches (Wednesday & Thursday), and dinners (Wednesday & Thursday) for one registered exhibitor from each company (one additional person may be added for \$75), (3) a 50-word descriptive paragraph of your company's products/services published in the final Symposium proceedings provided that it is received by Feb. 27, 2017, and (4) a final attendee-registrant listing.

**LIABILITY:** EXHIBITORS ASSUME ALL RESPONSIBILITY FOR DAMAGES TO THE EXHIBIT AREA AND THEY SHALL INDEMNIFY AND HOLD HARMLESS THE TENNESSEE SECTION AMERICAN WATER RESOURCES ASSOCIATION, MONTGOMERY BELL STATE PARK, AND ANY SERVICE CONTRACTORS ACTING AS AGENTS TO THE TN AWRA FROM ALL LIABILITY WHICH MAY ENSUE FROM ANY CAUSE WHATSOEVER.

For current space availability please check (this page updated regularly):  
<http://tnawra.er.usgs.gov/2017/exhibitor.html>

### Exhibitor Checklist:

- \_\_\_ FAX to 615-837-4783 or mail this form to Lori Weir, TNAWRA, 640 Grassmere Park #100, Nashville, TN 37211
- \_\_\_ Check this box if you are planning to participate in the Vendor Equipment Demo on April 5. For more information, see <http://tnawra.er.usgs.gov/2017/equipedemo.html>
- \_\_\_ Email a high resolution .jpg of company logo, 50-word company paragraph, and any special needs to [lrweir@usgs.gov](mailto:lrweir@usgs.gov)