



EXECUTIVE DIRECTOR

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TNSA Times

Tennessee Stormwater Association Quarterly Newsletter

A Message From the TNSA President



Welcome everyone to the beginning of a new decade 2020. It is a tremendous honor and privilege to be able to serve all of you as TNSA President! I would encourage any and all members to serve on the board at least once, it has been, and continues to be, one of the greatest blessings of my career. Also, I encourage any member willing, to please get with Charlene and volunteer for any committee that may benefit you and your area of expertise.

I want to mention that we are starting our twelfth year as an organization and many issues have come and gone yet we as a membership have stayed strong and thrived. Our endeavors to provide the needs and services requested of our members, has much improved and shows success on many fronts. I will continue, as my predecessors, to strive to provide you with the service you all deserve, thank you all for supporting TNSA.

Calendar year 2019 has seen a positive membership growth for Tennessee Stormwater Association (TNSA) due the dedication of our Executive Director Charlene DeSha, her hard work has generated a 9.5 % increase, in addition to the attrition, in new membership as of November 2019. The diligent efforts of our Board leadership has also brought value to the quarterly board meetings, and the meticulous work of our board members has kept us connected, educated and informed. With our goal to see membership growth and support of TNSA, we feel honored that non-members have felt a genuine need of the services and resources offered by the association and made the step towards membership. Thank you Charlene!

TNSA Urban Runoff 5K 2019, was also a great success, surpassing not only expectations, but also generated extra income for the Water Quality Education event. Jennifer Watson along with the committee members and volunteers have yet again exceeded the goals expected for the annual event. Thank you Jennifer!

City of White House Joe Moss, was instrumental in implementing not only the MS4 program, but also the Utility fees to support the program. Mr. Moss has built a new home in North Carolina and is planning retirement from White House in February of 2020. We will miss you and wish you and your family well!

I also want to thank those that were members of TNSA that have moved on this last year. This list is not comprehensive, so forgive me if I have missed anyone! We miss you and appreciated your service in protecting our water quality. Michael Barr (City of Millersville), Tracey Barrow (Sumner County), Andy Garrett (City of Goodlettsville), Chris Granju (Knox County), Katie Peay (Rutherford County), Justin Bryan (C.E.C.).

The annual TNSA Conference of 2019 also was a great example of outstanding preparation and leadership of our own fearless Crystal Bishop and supporting cast! You all know who you and are equally thanked! The Conference attendance hit 239 attendees for 2019!!! This is a new record for TNSA. It is also a summons to all members that help will be needed this year for new committee members to assist, Crystal has stepped down as Committee Chair and we need you! Thank you Crystal! Job well done.

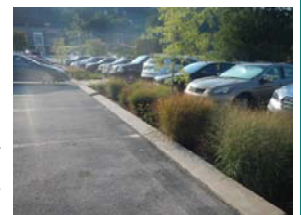
TNSA depends on great leadership and active participation of its board members above and beyond their current duties. We all can appreciate the dedication and sacrifice involved as public servants or private enterprise that serves clients etc. I would also like to congratulate David Mason for an excellent job last year as TNSA President. Thank you Sir!

On behalf of the board, thank all of you for your continued support and engagement in TNSA. Your active involvement in committees and regional meetings helps to create a collaborative atmosphere and build a meaningful organization in TNSA.

Warren C. Garrett: Goodlettsville, Tn. MS4 Stormwater Coordinator/TNSA President 2020

Member Spotlight: City of Chattanooga

On Sept 25, the City of Chattanooga officially announced its first completed project funded through the City's Green Grants program. Notre Dame High School (NDHS) was the first recipient of the City's \$100,000 reimbursement grant used for the design and installation of campus wide green infrastructure. Through this retrofit, Notre Dame has been able to reduce their volume of runoff by 11,000 cubic feet and create learning spaces for the students, staff, and visitors. Local news media were present to take a tour of the site and interview students, teachers, and staff along with the project's landscape architect and the City's project manager about the benefits of these specialized stormwater control measures.



Visionary programs can take time to receive approval and implement. The City of Chattanooga first began looking a green infrastructure cost share program in 2014. The Green Grants name and initial proposal was presented to the Stormwater Regulations Board in 2015 with the program's first approved budget year being 2016-2017. It was a long time coming, but it finally arrived with the completion of this project at NDHS. The second year of the grant has been awarded with that project's permits already obtained and construction ready to begin. Chattanooga is currently taking applications for the third year of Green Grants. The Green Grants program is designed to provide businesses, institutions and other non-single family residential customers partial funding for the design and construction of green infrastructure projects on private properties. Through these efforts the City is improving local water quality and fostering community stewardship and enthusiasm for green infrastructure. Find out more about Chattanooga's Green Grants program by visiting www.Chattanooga.gov/waterquality or contact the project manager, Joshua Rogers, at jsrogers@chattanooga.gov.

Upcoming Regional Meetings

Regional meetings are held each quarter. You do not have to be a TNSA member to attend a meeting. Region meetings are a great way to keep updated within your area. Meet professionals who have like minds, network, learn about statewide events and new ideas within the stormwater community.

- ◆ East: First Friday 8:30am-11:30am March 6, June 5, Sept 4, December 4
- ◆ West: First Tuesday 1pm-3pm March 3, June 2, Sept 1, December 1
- ◆ North West: First Wednesday 10am-12pm March 4, June 3, Sept 2, December 2
- ◆ Middle: First Thursday 10am-12pm March 5, June 4, Sept 3, December 3
- ◆ North East: Second Thursday 1pm-2pm March 10, June 11, Sept 10, December 10
- ◆ South East next meeting is January 30, 2020.



For updated meeting information visit our website event calendar.

Email Charlene DeSha if you would like to be added to a specific region email list.

TNSA 2020 EVENTS

March 12: Mid-South Clean Water Expo
8am-3pm, Shelby Farm Memphis, TN

August 1: Urban Runoff 5K
7:30am, Shelby Bottom Park Nashville, TN

October 20-22: 2020 TNSA ANNUAL CONFERENCE
Montgomery Bell State Park Dickson, TN

November 7: West Region Trail Run
International Harvester Managerial Park Lakeland, TN

Committee Updates

Communication: Goal is to work on communication within and outside of the organization

Chair: Aaron Rogge, CDM Smith

The Communication Committee finished the first video, "What is Stormwater?" , in the Legislative Series this Spring. The next video will be titled "Why is Stormwater Important?".

A TNSA channel was created on You Tube and a link can be shared via email in order to view the series.

Public Outreach: Creates Education Resources

Chair: Tom Lawrence, Thomas Lawrence Engineering

The Public Outreach Committee will meeting in December to discuss creating Hot Spot rack cards. If you would like to be part of the conversation and involved in this committee please contact Charlene DeSha at Charlene@tnstormwater.org. Main communication is conference call.

Committee Updates Continued...

Conference: Organize Annual Conference

Co-Chair: Rebecca Dohn, Metro Nashville Co-Chair: Jennifer Watson, City of Gallatin

The 2019 Tennessee Stormwater Association (TNSA) "Bridging the Gap" Conference was November 19-21, 2019 at Montgomery Bell State Park and hosted 239 attendees.

Attendees will enjoyed networking, sharing ideas and learning about stormwater issues within Tennessee with over 70 speakers scheduled. Keynote speaker was John Guider, author and photographer, will take attendees through a visual journey of his Voyage of Adventure, Retracing Donelson's Journey.

Tuesday started with technical sessions, TDEC updates, continuing with the keynote speaker lunch and ending with the TNSA Awards dinner. Wednesday was packed with technical sessions, TNSA Annual Membership meeting and ended with the Belgard/Stantec Social. Thursday was be a short day of technical session and ended with a closing address from TNSA President Elect, Warren Garrett. We gave away Amazon gift cards at the Annual Membership Meeting (\$50) and Closing Address (\$100) this year.

Not registered yet? Registration is still available, visit our website for more information.

Mark your calendars; the date for next year, October 20-22, 2020 at Montgomery Bell State Park.

Book your room today. Website: <https://www.tnstormwater.org/tnsa-conferenc>

Manufactured BMP: Standardizes device evaluation and develops BMP toolkit

Chair: Jason Bates , Advance Drainage Systems

The Manufactured BMP Committee is developing a guidance document to assist MS4s with plan review. The guidance document will compile the most commonly accepted lab and field testing protocols and provide information to help MS4s develop a standard checklist to be used by design engineers when a project is submitted for review. The Manufactured BMP Committee plans to have a draft document available in the first quarter of 2020.

Education: Manages and Creates Educational Training and Resources

Chair: Tim Gangaware, UT Tennessee Water Resources Research Center

The Education Committee is excited to have completed our first education series "IDDE Program Elements". We hosted 87 attendees throughout the state. TNSA owns the information created and it can be shared throughout the membership.

Our 2020 goal is to create an Erosion Day template which can be created in each region. Our first date will be March 12, 2020 in Memphis. Rollout will be held in Fall 2020.

Policy: Works with TDEC to share and update members on state and EPA regulations and policies;

Chair: David Mason, CDM Smith

The NPDES MS4 general permit appeal hearing regarding the post construction stormwater requirements reached a settlement agreement in October 2018.

Thomas B. Lawrence Contributes Several Fascinating Articles to Richard Crume's Publication, *Environmental Health in the 21st Century*

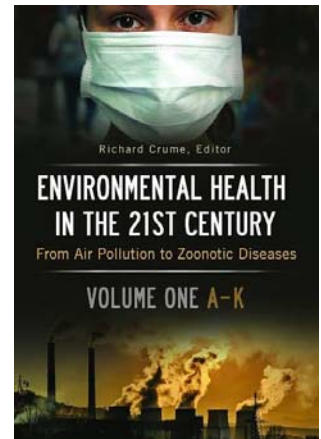
(MEMPHIS, TN, May 2019) - Thomas B. Lawrence, PE has contributed several must read articles to Richard Crume's publication titled *Environmental Health in the 21st Century*. Lawrence's insight into the world of water quality is exhibited in his concise descriptions of the issues surrounding water sources. Lawrence's depictive yet easy to read terminology enhances the book's premise which is to provide the latest information on environmental health in a convenient, encyclopedic format.

In his first contributory article titled "*Construction Site Runoff*", Lawrence emphasizes the necessity of pollution elimination programs within city and county agencies. Municipal separate storm sewer systems (MS4s) and National Pollutant Discharge Elimination System (NPDES) permits, along with their components, are explained in the article. A description of Construction General Permits and their importance in the prevention of construction site runoff is provided to the reader, along with an awareness of how sediment from runoff affects surrounding water sources.

Lawrence's second article, "*Groundwater Pollution and Depletion*", gives the reader a thought-provoking look into the role that groundwater plays in the water cycle. Lawrence states, "Groundwater is a critical feature and an important resource in the water cycle". A discussion of unconfined aquifers is presented, in which Lawrence discusses to process by which these elements of nature's water cycle may become polluted. He also informs the reader of the processes used to determine if groundwater is polluted. Lawrence provides the reader with a description of how groundwater depletion may compound the effects that groundwater pollution has on the environment.

In his third and final contribution, Lawrence introduces the reader to the aspects of heavy metals that are present in the environment. His article titled "*Heavy Metal Pollution*" provides clarification into how these compounds operate in their various forms. Lawrence supplies information on the heavy metals and where they may be present, along with a description of health effects that such elements may incur.

Thomas B. Lawrence, PE is a Licensed Professional Civil Engineer in California, Illinois and Tennessee. He is a well-received speaker on water resource issues and environmental principles. He serves as the President of Thomas Lawrence Engineering, PLLC (TLE, PLLC).



August 1, 2020!

8th Annual Nashville Urban Runoff! Call for WQ Booths & Sponsorships!

Join us August 1, 2020, at Shelby Park for the **8th Anniversary of the Nashville's Urban Runoff 5K!** [Nashville's Metro Water Services](#), the [TDEC](#) and the [Tennessee Stormwater Association](#) have teamed up together once again to host the Urban Runoff 5K and Water Quality Festival!

Dogs on leashes and strollers welcome! We'll have a fun and educational Water Quality Festival with a bouncy house and a photo booth for the whole family to enjoy from 6:30-10:30.

For more information about the race, please visit our [Facebook Page](#) or our [TNSA 5K webpage](#). **Thank you to all our Sponsors over the last 7 years!**

In 2019, we raised \$16,000 for the Tennessee Stormwater Association to help us achieve our public education goals for Clean Water and to help our MS4s achieve permit compliance! THANK YOU!



2019 TNSA “Exceptional Quality” Award Winners

The Tennessee Stormwater Association (TNSA) announces the 2019 “Exceptional Quality” Award Winners. TNSA recognizes individuals and stormwater professionals that have devoted time and energy into making TNSA a success and have accomplished great strides within the Tennessee stormwater arena. Nominations were accepted by TNSA members and voted on by their peers.

Person of the Year: An individual who displays Exceptional dedication and commitment to TNSA.

Organization of the Year: An MS4 or other Organization that displays Exceptional stewardship of Water Quality in Tennessee and provides Exceptional education and assistance to MS4s. Individuals are not eligible for this award; only the member organization is eligible.

Dr. Bruce Tschantz Lifetime Achievement Award: TNSA’s highest honor for outstanding, longtime stormwater professionals with a minimum of 25 years of service. These individuals’ long-term contributions have made a noticeable impact on stormwater management efforts in the State of Tennessee. Board will review nominations from the TNSA Membership and vote on the recipient. This lifetime achievement award will not be voted on by the TNSA membership.

Person of the Year was awarded to Crystal Bishop with the Hamilton County. Crystal has been such a dedicated TNSA proponent and believer in the Association- she has always led the Conference Committee and she has devoted her time and passion and enthusiasm and creativity into making each conference bigger and better every year! She is an amazing leader and continually strives to improve the organization and shares her ideas to ensure TNSA remains a viable and sustainable organization long into the future.

The TNSA Organization of the Year was awarded to the City of Chattanooga. For the last 10 years, the City of Chattanooga has been a leader in the state and the southeast with identifying and addressing water quality. In 2014 it held the first LID/Green Infrastructure (GI) Design Competition. It was a Public Private partnership receiving a grant from Lyndhurst Foundation. The Program has implemented a process of taking over the functional maintenance of all of the single family residential detention ponds - the only program in the US. The program has implemented the first certification program for third party inspectors for private SCMs. The City continues to require infiltration/GI SCMs for new and redevelopment projects. The city is in the process of developing new specification for GI practices for City and private structures. The City began requiring Inspection and Maintenance Agreements (legal documents with new development requirements) in 2006. The City implements GI on all of its new and significant redevelopment properties and has a staff of professional landscape professionals that oversee the native vegetation. The City has implemented, along with WaterWays (501c3) and Hamilton County the cutting edge My Tennessee, residential education/certification program. The only one in the southeast. We also are working on Adopt-A-Waterways stream clean up/adoption program.

Chris Granju, who recently retired from 23 years at Knox County, was recognized for the The Dr. Bruce Tschantz Lifetime Achievement Award. He came to Knox County as a professional civil engineer (PE) from a private engineering firm in 1995 and started his career at Knox County as the County Hydrologist/Plans Reviewer. Then in 1999, in anticipation of Knox County’s requirement to apply for the EPA NPDES Phase II Permit as required by the Clean Water Act, the Stormwater Department was born. Chris became Director of the Stormwater Department at that moment and has been in that position ever since. During his 20 years leading the Stormwater Department, things were not always easy and there were many ups and downs, but he always managed to continue to move forward and keep things on track. Chris has always been open and fair and he is well respected in the stormwater world. He has been a past president of the Tennessee Stormwater Association and helped to get it on its feet over the years by advising on technical and policy issues.

Please help us recognize and congratulate the 2019 TNSA award winners. All of these folks work tirelessly to help keep the Tennessee waterways clean for years to come!

The Tennessee Stormwater Association is Tennessee’s premier membership organization for stormwater professionals. TNSA’s mission is to assist members with their local efforts to comply with State and Federal clean water laws; including stormwater regulations through EPA and TDEC (Tennessee Department of Environment and Conservation). TNSA’s goal is to protect and improve the quality of the waters of Tennessee through the exchange of information and knowledge regarding design, construction, maintenance, administration and operation of stormwater facilities.

TENNESSEE STORMWATER ASSOCIATION



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