



**NORTH CAROLINA WATERWORKS
OPERATORS ASSOCIATION**

Year In Review
2017



From the President

It is my honor to introduce the tenth edition of the Year in Review. As I look back on the accomplishments of 2017, I realize that most of these accomplishments are things that actually come into play in 2018.

In June, NCWOA members held a Strategic Planning Session. This session produced several goals that we plan to accomplish in 2018. One of these goals deals with training. As you may have heard, in 2018 we are going to implement new sectional training. Each section will have three section meetings and each meeting will be split into two, 2-hour segments. All NCWOA members will be able to obtain their drinking water credit hours for free by attending these section meetings.

The NCWOA Annual Schools Committee continues to work on and improve the Moodle online study course. We anticipate more improvements in 2018.

In September, Julius Patrick officially became the Past President of NCWOA and I became the President. Julius has done (and is doing) an awesome job for NCWOA and I cannot thank him enough. Also, Ken Loflin became the First Vice-President and Sam Molinas became the Second Vice-President. Several of the section chairs and committee chairs changed hands, too. I would like to thank all of them for their commitment and hard work.

Three positions that didn't change in 2017 were those of our NCWOA staff. Heather Cagle remains the Administrator, Mike Richardson is the Education Specialist, and Cindy Gall is the Comptroller. All of them do an amazing job and I thank them as well.

A few things will be changing in 2018, due to necessity. As you may have noticed, the cost of an NCWOA membership is now \$40.00/year. Some people have asked why we increased the price? As an organization that always strives to put our members and their needs first, increasing membership was a hard decision based on several factors. One of those factors being, it is simply the cost of doing business. As we all know, prices on almost everything continue to increase. The costs to NCWOA increase as well: printing costs, staffing costs, travel costs, etc. But I feel that the membership cost is still a bargain. Another factor includes the ability for members to obtain their required drinking water CEUs at no additional charge, by attending section meetings, and will be able to receive reduced pricing on books, schools, and seminars.

Also, due to logistical issues, it was decided to move the spring school to Hickory, NC for 2018. I look forward to seeing how this new location works and welcome your feedback on this change. A couple of changes that were made to the fall school in 2016 and kept in 2017 will likely continue in 2018: holding the Awards Banquet and Business Meeting during lunch on Wednesday and using the Holiday Inn Express as the host hotel.

In closing, I would like to make a request: NCWOA is almost completely an organization of volunteers and we are always looking for people who are interested in helping. To this, I would like to add that succession planning is another important goal that was discussed at the Strategic Planning Session. It has been said that drinking water professionals, and by extension many NCWOA members, will be retiring at a higher rate over the next few years than people in other professions. Therefore, I would ask all of you to stay active in the organization and to consider serving as a section officer or as a committee member, or perhaps teaching at one of our annual schools.

Again, a big thanks to all NCWOA members and sponsors for all you are doing for NCWOA and for the water industry. I hope that 2018 will be a great year.

Jeff Isley
City of Concord
NCWOA President



From the Editor

Welcome to the 2017 edition of the Year in Review.

2017 has been a very exciting and rewarding year for NCWOA and its members. We hope you enjoy this year's edition of the Year in Review. It is our goal to keep you involved and up-to-date on the happenings within NCWOA. As always we welcome feedback, so feel free to email me or any of our committee members concerning article ideas or operator spotlights. The list of our committee members can be found on our website and in Go With The Flow.

A huge thanks goes out to our Membership Services Committee for all of their hard work. This committee is a group of talented water professionals which have worked tirelessly over the past 12 months writing various articles, welcoming new members, ushering in exhibitors for our Advance Day Training, as well as, putting together publications such as the Go With The Flow and Year in Review.

A token of gratitude goes out to everyone who has attended our past seminars, section meetings, and schools. And last but certainly not least, we sincerely appreciate all of the water plants and companies who have been gracious enough to host these events at their facilities.

NCWOA has stayed the course since its inception in 1939, and we look forward to providing all of our members and fellow water professionals with much needed training for many years to come.

Volunteers have always been the backbone of our Association. As always we welcome new faces and fresh ideas, so please contact us if you're interested in becoming more active in NCWOA.

Sincerely,

Mike Houston

Jones County Regional Water

Public Image Chair

Executive Committee/Staff



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78th Annual Business Meeting & Operator Appreciation Luncheon

September 27, 2017 12:00 PM - McKimmon Center, Raleigh, NC

President Julius Patrick called the meeting to order and welcomed everyone to the 78th Annual Business Meeting and Operator Appreciation Luncheon.

The meeting was opened with prayer by Allen Daniels

President Patrick called upon Michelle Clements to read the minutes from the 2016 Annual Business Meeting. A motion was made to approve the minutes as read was made and seconded. Motion Passed.

President Patrick called on Mike Richardson to outline the new Section Training Planning. Mike presented the proposed changes and handouts were provided to each attendee. Section leaders will be meeting at the beginning of the year to decide on training topics and meeting times and locations. The hope is that this will make the training easier for the Operators to complete.

President Patrick presented the proposed changes to the By-Laws.

1st By-law changes was in reference to percent of monies retained by each Section. Motion was made, seconded and approved.

2nd change to the By-laws was in reference to the operator awards. Motion was made, seconded and approved.

President Patrick called upon Randy Hawkins to read the Treasure's Report for the last fiscal year (July 1 2016-June 30, 2017).

Financial Report:

Beginning Balance
\$ 715,564.00
Revenue
\$ 281,619.00
Expenses
\$ 300,283.00
Interest Income
\$ 36,403.00

Total Net Assets of June 30, 2017
\$ 733,283.00

A motion to approve the Treasure's report as read was made and seconded. Motion Passed

President Patrick called upon 1st Vice President Jeff Isley to give reports for each Section for their Annual Reports.

Western Section: on File
North Piedmont Section: on File

South Piedmont Section: on File
Southeast Section: on File
Northeast Section: on File

President Patrick called upon Ricky Langley for the annual audit report.

Ricky Langley reported that the Audit was complete and successful.

President Patrick called upon 2nd Vice President Ken Loflin to give the Committee's Annual Report.

Ken Loflin reported on Annual Schools, Seminars Committee, Lab Analyst Committee, Board of Examiners, Public Relations and Membership. Report attached.

President Patrick observed a moment of silence to remember those Members who has passed since the last meeting.

Clifton Sellars, Sr, Al Slover, Larry Williams

President Patrick recognized the Corporate Sponsors: Platinum Sponsors: Carolina Management Team, Southern corrosion, Inc., Trinity Manufacturing. Gold Sponsors: Charles R. Underwood, Inc., Clearwater, Inc., Fortech, Inc., Greenville Utilities, Heyward Inc, Jack Moore & Associates, Inc., Kemp Construction, Inc., McGill Associates, Inc., Pearson Pumps, Univar, Buchanan Pump Service & Supply, Brown and Caldwell, Hazen & Sawyer.

President Patrick recognized the Exhibitors for the Annual School: AC Schultes of Carolina, A&W Electric, Inc, Advanced Enterprise Systems, Amerochem Corp, Combs & Associates, Cummins Sales and Service, Daparak, Inc, Hach Company, Instrulogic, In-Water Services Co., Inc., JS Dismuke, NCWOA, The Perkins Company, Inc., Water Guard, Inc., Willis Engineers

President asked Leslie Carreiro to come forward to recognize new Life Members with 25 Years of consecutive membership. They were as follows: Clyde Beasley, Benjamin Carawan, Michael Champion, William Glenn, Dale Steward, Robert Titan, Garry Harris, Allen W. McDuffie, Jefferson E. McKellar, Jr., Randolph McMillian, Blaine Payne, Christopher Smith, Floyd Tart, Benjamin Vaughn, Timothy Burgin, Carl Daniel, Gary Downs, Curtis Meyer, Michael Mull, Robert Pearson, Billy Wilkie, Christopher Wright, Edward Smith, Jr.

President Patrick presented the Special Award of Merit to Sam Molinas and Leslie Carreiro.

President Patrick called on Chris Smith to present the AWOP Awards

51 surface water systems have met or exceeded the turbidity performance goals for settled and filtered water in Calendar Year 2016 and have received AWOP Awards from Public Water Supply.

Leslie Carreiro came forward to present the Certified Operator of Year Awards. The recipients were:

C-Well: Wade Barnett – NC Park Services
B-Well: Randy Wilson – Carolina Water Service
C-Surface: Robert Blecher – Broad River Water Authority
B-Surface: Hugh Parrott – Town of Waynesville
A-Surface: Keith Kirchner – City of Hendersonville
Educator of the Year: Don Price – NCD-EQ PWWS
Lab Analyst of the Year: Brenna Cook – City of Asheville

Chris Smith presented the Outstanding Operator of the Year – Mike Hughes – City of Raleigh

President Patrick asked Sam Molinas to present the slate of officers for the 2017-2018 year as follows: President – Jeff Isley, 1st Vice President – Ken Loflin, 2nd Vice President – Sam Molinas, Secretary – Michelle Clements, Treasurer – Leslie Carreiro, Past President – Julius Patrick

Motion made, seconded and approved for slate of officers.

President Julius Patrick asked for nominations for Nominations Chair: Buddy Edmisten made the nomination that Chris Smith be appointed. Motion seconded and approved.

President Julius Patrick provided comments thanking the Association for support and help during his 2 years as president.

President Jeff Isley presented Past President Julius Patrick a plaque for his service. President Isley also thanked the board and members and provided comments.

President Isley asked for a motion to adjourn. The motion was made and seconded – Motion Passed.

Respectfully Submitted By:
Michelle Clements

Certified Operators of the Year

A Surface

Keith Kirchner
City of Hendersonville

This awardee has been in water treatment for 32 years working at the same water treatment facility. He has seen and helped to oversee three major expansions of the plant which is now rated at 18 MGD as a conventional surface water treatment facility and currently serves as the plant's Chief Operator. He is A-Surface licensed as well as being Backflow/Cross Connection certified, a Grade II Wastewater Operator and has his Physical/Chemical certification. The water plant has received numerous AWOP awards from the NC DEQ under his leadership and devotion to the program.

He has been instrumental in the development and ongoing activities of the Mills River Partnership for Watershed Protection and is a member of the Henderson County Drought Management Team. He has also led efforts in other community outreach programs to promote safe source water protection. He is excellent in customer service and has led efforts to reduce disinfection by-products in their very large county size water system. He has always been instrumental in the training of existing and new operators. He also recently led efforts to dredge and clean their North Fork reservoir which required close coordination with the US Forest service.



B Surface

Hugh Parrott
Town of Waynesville

This awardee hails from and is a lifelong resident of Haywood County in Western North Carolina. He has worked at this surface water system for 25 years and has served in the capacity of Watershed Warden, Water Operator, and Laboratory Technician. He holds a Grade B-Surface Water Treatment Operators License as well as being a BLE Certified Law Enforcement Officer. His supervisor and nominator both describe him as someone who, "is willing to do whatever it takes to get the job done and done right." He has been instrumental in the training of other operators



and possesses excellent customer service skills. He is also described as a "top notch" water operator who places special emphasis on details.

C Surface

Robert Blecher
Broad River Water Authority

This awardee works for a large water authority located in the lower foothills of North Carolina. He is formally a Texas native but long since has become a mountain man. He previously served as a Truck Master with the North Carolina Army National Guard and the U.S. Army. He is a certified C-Surface Operator, A-Distribution System Operator, Backflow and Cross Connection Certified Operator, an ICC Certified Automobile Mechanic, a NC Electrical Installation and Maintenance Certified Mechanic, and holds a NC Plumbing License.

His supervisor describes him as his, "new standard, for the hiring of future operators." He is also thought of by his supervisor as an invaluable individual because of his great qualifications and his "do it all" attitude. He has been an assistant scout master with the Boy Scouts of America for many years and is a devoted mentor to all young people. He keeps all the mechanical components at the water plant in top notch condition as well as being a very good water treatment operator.



B Well

Randi Wilson
Carolina Water Service Inc.
(Fairfield Mountain Resort)

This awardee lives in Rutherford County, North Carolina and has worked for the same private utility company for 29 years. She is currently the lead operator for a resort type community using strictly groundwater as its source of supply. She is B-Well certified and Meter Technician Certified and recently completed a Leadership Training School in 2017. Her supervisor describes her as a very knowledgeable and devoted operator who, "keeps her wellhouse's cleaner than most kitchens." She displays great customer service skills and is always on time and ready to get the job done. She recently took the lead in developing complete GIS mapping of the water system where she works.



C Well

Wade Barnett Mount Mitchell State Park

This awardee works at and operates one of the highest elevation water systems in North Carolina. He has worked at this site for 13 years as a water operator and now as the Maintenance Mechanic Supervisor. He has always been instrumental in the training of fellow operators and his supervisor describes him as someone that is, "loyal to the core, who works daily to help his work place be a wonderful place to work and visit." He is C-Well and Maintenance Mechanic certified and not only timely in his work, but someone who takes pride in everything he does.



Lab Analyst of the Year

Brenna Cook City of Asheville

Brenna began her career with the City of Asheville in 2003 as an Operator. Brenna holds an "A" Surface Water Operator, a "C" Distribution, BF/CC, Total Coliforms & E. Coli, and Physical Chemical 1 Water Pollution Control System Operator certificates. In 2008 she was promoted to Laboratory Supervisor and oversees the sampling and analysis for three water treatment plants serving a population of about 124,000.

Brenna was nominated due to her work in the creation and implementation of the Boil Water Advisory / Notice program, improvements in communication and education to for her staff and the sharing of knowledge through instructing classes, seminars, and training interns.

Brenna has implemented many of her staff's suggestions, thus efficiency and productivity have improved. Laboratory Technicians are cross trained in all three positions that cover three water treatment laboratories.

She is always willing to work with interns to better their understanding of water treatment and analysis as well as change her work schedule to be able to meet the student's availability.

Brenna has also been the on-call person for the laboratory for years. Being on-call requires her to gather bacteria samples during the night due to major water



outages or scheduled repair work affecting health-care areas. She has come in on the weekends to notify customers of the results from bacteria analysis, update reports, and manage other tasks required for her position.

Educator of the Year

Don Price NCDEQ, Public Water Supply Section

This awardee is no stranger to the operators of North Carolina because he has spent 30 plus years dedicated to the training and mentoring of both water and wastewater operators throughout the state. As a member of NCWOA, NCRWA, and NCAWWA he has been called on frequently to conduct training. As a certified A-Surface Operator, a Grade IV Wastewater Operator, and a Certified Environmental Safety and Health trainer (just to name a few), he certainly possesses the skills necessary to be an outstanding trainer. In fact, his nominator described him as, "someone who has taught hundreds (if not thousands) of water and wastewater courses over the stretch of his waterworks career."

During this time he has created workshop agendas, secured many certification board approvals for courses, arranged for qualified instructors, found appropriate facilities to host training, and has managed the logistics of regularly conducting training for water and wastewater operators throughout the state. "He will not say no to a request related to operator training," according to his supervisor with the Department of Environmental Quality.

And, as a member of the NCDEQ Public Water Supply Section, he regularly conducts individual training with the Superintendents and operators in regulatory matters on reporting and records keeping and in the daily treatment of drinking water. All of these things he does with a smile on his face and with a helpful attitude.

He is a former recipient of the Don Francisco Educator of the Year Award from AWWA and possesses many other water and wastewater awards obtained throughout the years.

He is a graduate of Western Carolina University, former Utilities Director with the City of Mount Holly, and former Superintendent of the City of Marion Water Treatment Plant.



Outstanding Operator of the Year

Object of the Award

The object of the award is to annually recognize one waterworks operator for his/her outstanding ability and devotion to the water supply profession that best merits the title "Outstanding Operator of the Year."

Basis for the Award

The award may be made by the Outstanding Operator of the Year Award Committee for any of the following reasons: outstanding proficiency in plant operations, records, and reports; exceptional organizational activities in the award winner's facility, demonstrated educational practices, or investigations leading to improvement of the profession; exceptional devotion to duty, and outstanding service to the Association.

Mike Hughes City of Raleigh

The recipient of this year's NCWOA Outstanding Operator of the Year Award started as treatment plant operator in 2001.

He was promoted to Senior Treatment plant operator in 2003 and then promoted to Plant Operations Supervisor in 2009.

In 2002, he earned an Associate's Degree of Applied Science in Environmental Science/Technology from Wake Technical Community College.

He holds A-Surface, Phys/Chem Grade I, C-Distribution, and Grade I Maintenance Technologist certifications.

His facility consistently maintains the highest water quality possible and is in full compliance with the water quality parameters set by EPA.

The operators at his plant are well-trained by him, and show great pride in their facility, which reflects the high standards of professionalism demonstrated by this person.



In spite of his busy schedule, he regularly makes time to lead groups on tours of his facility, and has even inspired several area community college students to pursue careers in water treatment.

He also volunteers his time to teach at NCWOA training events.

He developed an Extended Sub Fluidization Terminal Wash (ESTW) to help season filters after backwash, as well as a process of running two ozone injection pumps to improve ozone transfer efficiencies as well as Taste/Odor/Algae removal.

He has also developed and implemented a program to motivate and train young Operators by giving them opportunities to job shadow and Intern at his plant.

Special Award of Merit

Object of the Award

The object of this award is to recognize a member or members of the Association for their devotion, outstanding service, and dedication to the Association and the Waterworks Profession.

Leslie Carreiro City of Asheville

Leslie has a way of rallying the troops together to make sure the job is done right. Enthusiasm and dedication rubs off on the people that surround her, which is a key element in a volunteer organization such as NCWOA.

She is armed with vast knowledge in the water industry, serving as a lab tech, an operator, and currently manages a water treatment facility. This is a quote from an employee, "I have always been impressed by the professionalism and integrity. The citizens of this system are fortunate to have such a dedicated professional managing their water treatment plants."

To my knowledge she has held every position on the Board maybe, except two, and served on almost every committee NCWOA has to offer. She always has the farthest drive to NCWOA meetings, but never complains and was instrumental in NCWOA first strategic planning session and actually successfully facilitated the 2013 planning session.

Leslie is the 3rd female to serve as President of the Association and was currently serving as Public Image Chair when this award was given. She has done a fantastic job in 2017 making sure we come up with quality spotlight articles in the GWTF and plans the committee activities a year in advance.

I'm careful not to compare people, but in my opinion I compare this person to another mentor and friend of mine, Kasey Monroe, who contributed so much to NCWOA. Kasey knew how to keep everyone on task while maintaining that good NCWOA family atmosphere. Leslie shares the same characteristics.



Sam Molinas Broad River Water Authority (NCWOA official photographer)

I met this individual approximately 4 years ago when he came onboard as section chair. We connected from the very beginning due to his logical decision making skills, making sure that all decisions made have operators best interest at heart.

The more I talked with him one on one, the more I understood his view and how he envisioned NCWOA's future. He touches all members through his passion for photography.

I began my active involvement in public relations and one of the things that I knew was missing was that we needed a professional photographer.

I saw the transition of our publications go from no pictures at all to black and white pictures, to eventually color pictures.

NCOWA thought we were doing something when we purchased a Nikon camera several years ago, but this person saw we were struggling and took it upon himself by volunteering to take pictures at annual schools and section meetings. Sam is one of the reasons

why NCWOA has great publications and make us look even better.

Sam started working for Duke Power as a lineman in August 1984 and moved over to their water treatment plant in April 1988. Duke's water system was purchased by Broad River Water Authority (BRWA) in 1999. Sam has 29 years of water treatment experience and holds an A-surface certification. He is currently the chief operator for BRWA.

"He has the perfect mentality for water plant operations and has served BRWA in a dedicated capacity. We are lucky to have him."

2017 Operator Spotlight Recap January

Kenny Hart
Fayetteville PWC

Hart has about 1,300 miles of water main and about 1,300 miles of sewer that he along with two other people oversee. He says that mileage services roughly 98,000 customers. His main job as field supervisor is to oversee the crews that maintain and operate the water distribution and collection systems. He also oversees the contracts for asphalt and concrete restoration. He has been in this particular position for about 10 years. In total, he has worked with PWC for 22 years coming from a job with TA Loving Company.

Hart says he really enjoys his job at PWC overseeing its five, 4-man crews and working with the contractors in asphalt and concrete restorations. He says that PWC has roughly 100 personnel to run the daily operations. Hart says his main focus is new service installs, while the other two field supervisors handle emergency repairs and the sewer side.

2017 Operator Spotlight Recap April

Charlie Colie
Neuse Regional Water and Sewer Authority

Charlie Colie has been with the Neuse Regional Water and Sewer Authority for the last eight years and unlike most water industry professionals this was his intended plan. He said after his education he was not sure if he would end up on the water side or the sewer side of the industry.



Colie took a job on the water side with Neuse Regional as a water trainee and has worked his way to superintendent during these eight years. Colie says he really loves his job and the 14 employees he is in charge of. He has nine operators, a chemist, three maintenance employees, and an assistant superintendent. Colie explains that Neuse Regional is a wholesaler of water to eight member entities.

Roger Massey
City of Asheville

Roger Massey, Senior Construction Inspector for the water engineering department with the City of Asheville says that if you have to work a job for 40 or 50 years that you best make sure you like it. He is currently in his sixteenth year with the City of Asheville and plans on sticking around right through to retirement. He has worked his way up through the ranks as senior inspector, starting out as a pipe fitter on the city's maintenance crew.



Massey is currently overseeing several capital improvement projects on the water system that will last the next 12-14 months. He says it's his job to take over these neighborhood enhancement projects after the pre-construction meeting and see them through to completion.

Steve Pope
Piedmont Triad Water Authority



Steve Pope is a big kidder. He loves picking and not being so serious all the time, but when it comes to the water industry and his job as Water Systems Manager, he takes great pride in his job and his hardworking employees. He has been in the water industry for 25 years, starting out as an operator in Denton.

Piedmont Triad Water Authority is a wholesaler of water to Greensboro, High Point, Randleman, Archdale, Jamestown, and Randolph County. It pushes 14.7 mgd per day and serves roughly a half a million customers.

Pope is North Carolina Waterworks Operators Association's (NCWOA) North Piedmont Section Chair. He says NCWOA is an operator's organization. He says the association provides necessary training and the training materials on the web site and gives the operators an opportunity to network.

"NCWOA is for the operators and it gives me a chance to talk with them to see how their plants are running and what they are using compared to us," Pope says. "We can mingle and interact with other operators, it has a training site they can utilize for training materials, schools, and a vast amount of knowledge there that younger operators can tap into."

2017 Operator Spotlight Recap July

Gary Shelton
Greenville Utilities Commission (GUC)

Gary Shelton says he was like most other water plant operators around the state of North Carolina; out looking for a full time job and getting hired as a water plant operator. That's exactly what happened to him back in November 1988 in the City of Wilson.

He stayed in Wilson until June 2000 and decided to take a job opening at Greenville Utilities Commission (GUC). Shelton has been there for 17 years and is in the short rows to retirement with only three years to go. He says he is a "Jack of all trades" helping to run the operations at GUC, a water treatment plant at 21½ mgd and interconnects with Bethel, Farmville, and Winterville.

In 2004, he was voted as Operator of the Year for the North Carolina Waterworks Operators Association (NCWOA). He says NCWOA has been helpful for him and his career because it is such a hands-on organization.

"I am a hands on kind of guy and it gives me those opportunities," he says. "You can get out into other plants and really see how things work."

Neil Carpenter

Maggie Valley Sanitary District

Neil Carpenter is the District Manager of the Maggie Valley Sanitary District (MVSD) and a lifelong resident of Haywood County in Western North Carolina.



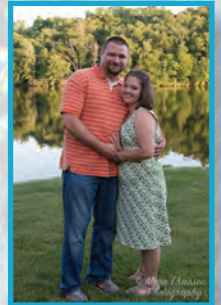
Neil has worked at the MVSD for 27 years, starting out in 1990 as an operator trainee at the (then) 1.5 MGD surface water treatment plant and as a distribution system operator. He quickly rose through the ranks and received his A-Surface license as a water treatment operator in the minimum time frame. Today, as the manager, he works alongside 6 operators and 3 office personnel.

Neil has also been very active with the NC Rural Water Association and with NCWOA. He and his staff are active with NCWOA, having hosted many training and section meetings over the years. In 2000, Neil was recognized with the J.A. Younts Award from the NCRWA and the Maggie Valley WTP and staff have received several AWOP awards from the NC DEQ for meeting excellent turbidity and microbial removal at their plant.

2017 Operator Spotlight Recap October

Neil Reece Utilities, Inc.

Neil Reece works for Utilities Inc. and is the Water, Wastewater Operator II for Sugar Mountain. He has been in the water industry a little over 13 years, starting out with the Town of Seven Devils. Reece says he needed more job security than what building houses could offer, so he jumped when the utilities job opened with Seven Devils.



Reece left Seven Devils to take a job with Utilities Inc. and has steadily worked his way up the ladder. He says he does pretty much everything, working on the water side and now the wastewater side for Sugar Mountain.

He has been a member of the North Carolina Waterworks Operators Association (NCWOA) for the last several years and he really likes what the association offers water operators. Reece loves the networking opportunities and the schools that NCWOA provides. He says you get to meet people in the industry and instructors that you probably never would if not for the opportunities it provides.

2016 NC Area Wide Optimization Award Recipients

Given by the NC Division of Water Resources Public Water Supply section. These awards are part of the NC Area Wide Optimization Program, which is an effort to enhance the performance of existing surface water treatment facilities.

- Town of Andrews Water Treatment Plant
- City of Asheville - North Fork Treatment Plant
- City of Asheville - William DeBruhl Treatment Plant
- Town of Boone Water Treatment Plant
- Broad River Water Authority Water Treatment Plant
- Town of Burnsville Water Treatment Plant
- Cape Fear Public Utility Authority-Wilmington-Sweeney Water Treatment Plant
- Town of Cary Water Treatment Plant
- Charlotte Water - Franklin Water Treatment Plant
- Charlotte Water-Lee S. Dukes Water Treatment Plant
- Charlotte Water - Vest Water Treatment Plant
- City of Cherryville Water Treatment Plant
- City of Eden - Robert A. Harris Water Treatment Plant
- Fayetteville Public Works Comm. - Glenville Water Treatment Plant
- Greenville Utilities Comm. - Charles Horn Water Treatment Plant
- City of Hamlet Water Treatment Plant
- Harnett County Dept. of Public Utilities - Harnett County Water Treatment Plant
- Harris Nuclear Plant
- **Henderson-Kerr Lake Regional Water Authority**
- City of Hendersonville Water Treatment Plant
- City of Hickory Water Treatment Plant
- Johnston County Water Treatment Plant (East)
- Johnston County Water Treatment Plant (West)
- City of Kannapolis Water Treatment Plant
- City of Lenoir Water Treatment Plant
- Lincoln County Water Treatment Plant
- **City of Lincolnton Water Treatment Plant**
- Town of Louisburg Water Treatment Plant
- Town of Madison Water Treatment Plant
- Maggie Valley Sanitary District Water Treatment Plant
- **City of Marion Water Treatment Plant**
- Town of Mayodan Water Treatment Plant
- City of Morganton-Catawba Water Treatment Plant
- City of Mount Airy - F.G. Doggett Plant
- City of Mount Airy - S.L. Spencer Plant
- City of Mount Holly Water Treatment Plant
- **City of Newton Water Treatment Plant**
- Orange Water & Sewer Authority
- Piedmont Triad Regional Water Authority - John F. Kime Water Treatment Plant
- Town of Pittsboro Water Treatment Plant
- City of Raleigh-D.E. Benton Water Treatment Plant
- City of Raleigh-E.M. Johnson Water Treatment Plant
- Town of Robbinsville - Rock Creek Water Treatment Plant
- Town of Southern Pines Water Treatment Plant
- City of Thomasville Water Treatment Plant
- **Two Rivers Utilities**
- Town of Valdese Water Treatment Plant
- City of Waynesville-Allens Creek Water Treatment Plant
- Town of Weaverville - Ivy River Water Treatment Plant
- Western Carolina University
- Town of Wilkesboro Water Filtration Plant

*****"Gold Star Honor" - systems that have received the NC AWOP Award for 10 consecutive years**

In Memorium



Terry Hunnicutt

Terrell O'Neal "Terry" Hunnicutt, 69, of 203 Bembury Road, Hertford, NC, passed away on Thursday, December 7, 2017, in Sentara CarePlex, Hampton, VA, where he was surrounded by his family.

Mr. Hunnicutt was born in Monroe County, GA on November 11, 1948, and was the son of the late Thomas O'Neal and Martha Evelyn Taylor Hunnicutt. A retired technician with the Perquimans County Water Department, he was a member of Faith Pentecostal Holiness Church.

Surviving are his wife of 46 years, Mary Lou Perry Hunnicutt; his daughter, Lisa Ann Stallings and husband Steve of Tyner; three sisters, Diane Lee and husband Robert, Jean Holcomb, and Maxine Barnes, and his brother, Tommy Hunnicutt, all of Carrollton, GA; and by his "granddog", Tinkerbelle.

Terry was a member of NCWOA for five years.



Ron Sanders

Ronald W. Sanders, Sr., 78, of Fayetteville, left this world to be with his Heavenly Father on Monday, September 11, 2017.

Ron was born in Durham, N.C. He was a veteran of the US Navy, with his last station at North Island Aviation in San Diego, Ca. After returning home to Fayetteville, he used his love of Science for a career. He became a founder and owner of Environmental Laboratories of Fayetteville and later on, a Vice President/Managing Director of Microbac Environmental Laboratories. Ron worked in the environmental testing field for 42 years. He was also a founder of the Commercial Laboratory of North Carolina Association (CLANC)

Surviving are his wife of 28 years, Bonnie Sanders; son, Ronald W. Sanders, Jr.; daughters, Shannon A. Spell and husband Lonnie and Jennifer L. Pressley and husband James; grandchildren, Ronald W. Sanders III, Christopher Clifton, Tanner Sanders, Elijah Sanders, Madeline Pressley and Katherine Pressley.

Ron was a lifetime member of NCWOA (since 1981).



Al Slover

Alfred "Al" Ronald Slover, 61 years of age, of Locust, passed away peacefully Thursday, August 17, 2017 in Charlotte, NC. Al was born June 28, 1956 in New York to the late Alfred Ronald Slover Sr. and late Laura Abigail Slover.

Survivors include wife, Nancy Slover of Locust; two sons, Sheldon Slover of Locust, and Matthew (Carolyn) Slover of Monroe; three sisters, Eileen, Autumn, and Angel; one brother, Bill; and several nieces and nephews.

Al was a loving husband and a proud father who treated everyone with respect and kindness. He was a sincere friend who would do anything for the people he loved. He was a fun person who enjoyed life!

He enjoyed racing, collecting, and spending time with friends and family.

Al was a member of NCWOA for five years.



Larry Williams

Larry Thomas Williams, 57, of Mebane, died March 15, 2017 at Randolph Hospital. Born March 1, 1960 in Alamance County, he was the son of Thomas Anderson and Pearl Moore Williams, who

preceded him in death. Larry was a graduate of Orange High School and Alamance Community College. A Class "A" water plant operator, Larry was employed with the Town of Hillsborough with 20 plus years of service in the water plant. His favorite past time was fishing. Larry is survived by three brothers, Charlie Martin of Haw River, Odie Martin and Terry Williams, both of Mebane; and by two sisters, Jeannette Jones of Burlington, and Rita F. Taylor of Deatsville, AL.

Larry was a lifetime member of NCWOA (since 1987).



Lamar Wommack

Curtis "Lamar" Wommack Jr., 75, of Morganton, passed away unexpectedly Saturday, Nov. 18, 2017. He was born Nov. 7, 1942, in Laurens County, Ga., and was the son of the late Curtis Lamar Wommack Sr. and Lula Blich Wommack. Lamar was a member of

First Presbyterian Church in Morganton. He was a devoted husband, father and grandfather. Lamar retired as Dean of Continuing Education after a 38 year career at Western Piedmont Community College. He was very active in the State Employees Association and Retired State Employees Association. Lamar enjoyed camping and fishing, but his true love in life was spending time with his family, especially his grandchildren. Lamar is survived by his wife, Judy Ware Wommack of the home; son, Curtis Lamar Wommack III and wife, Ilisa of Stone Mountain, Ga.; daughters, Laurie Wommack Johnston and husband, Miguel, and Jennifer Wommack; granddaughter, Lily Wommack; grandsons, Seth Johnston, Rico Johnston, Ben Johnston, Erik Johnston, and Greg Johnston; sister, Lynne Murdock and husband, Lee of Gray, Ga.; and numerous nieces, nephews and extended family.

Lamar was instrumental in the facilitation of many of the NCWOA spring certification schools held at the Foothills Higher Education Center.



2017 Life Members

Life Membership is awarded to any active member who has maintained an uninterrupted membership in the Association for a period of 25 years, is in good standing with the Association, and may be elected by a two-thirds majority of the members present and voting.

Clyde Beasley
Environment 1

Timothy Burgin
Cleveland County

Benjamin Carawan
Currituck County

Michael Champion
City of Graham

Carl Daniel
Carolina Water Service
(Retired)

Gary Downs
Cleveland County

William Glenn
City of Randleman

Garry Harris
Town of Pembroke

Allen McDuffie
Town of St. Pauls

Jefferson McKellar, Jr.
MCAS - Cherry Point

Randolph McMillan
James Rest Home

Curtis Meyer
Iredell Water Corp.

Michael Mull
City of Shelby

Blaine Payne
Harnett County

Robert Pearson
City of Lincolnton

Chris Smith
PWC - Glenville Lake

Edward Smith, Jr.
City of Hendersonville

Dale Stewart
City of Greensboro
(Retired)

Floyd Tart
City of Dunn

Robert Titan
City of Mt. Airy

Benjamin Vaughn
Moore County
(Retired)

Billy J. Wilkie
City of Shelby

Christopher Wright
Two Rivers Utilities

2017 Spring School



A-Surface



B-Surface



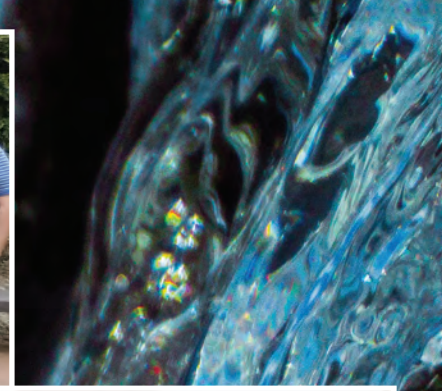
C-Surface



B-Well



C-Well



A-Surface

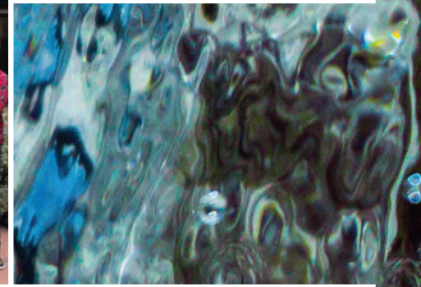
2017 Fall School



B-Surface



C-Surface



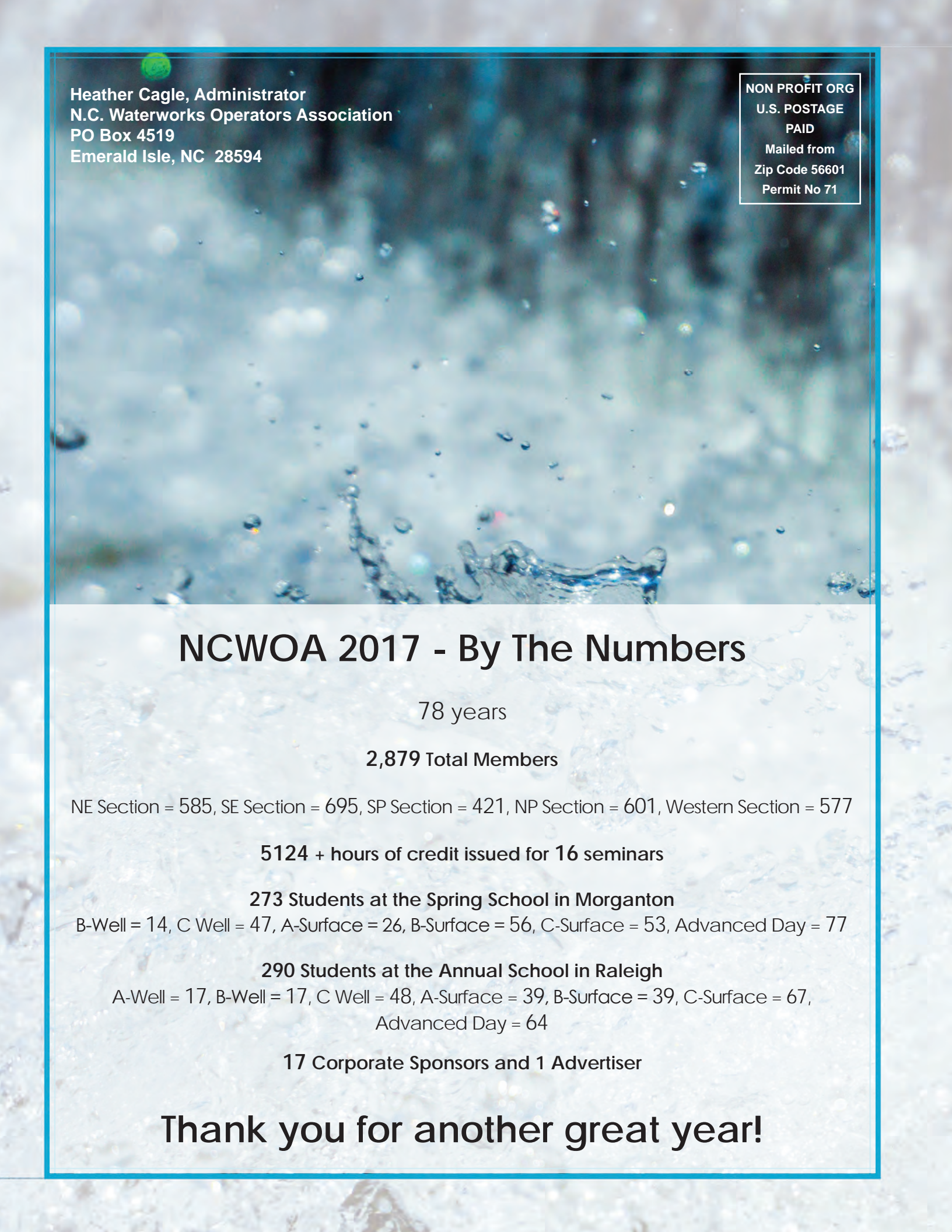
A-Well



B-Well



C-Well



Heather Cagle, Administrator
N.C. Waterworks Operators Association
PO Box 4519
Emerald Isle, NC 28594

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NCWOA 2017 - By The Numbers

78 years

2,879 Total Members

NE Section = 585, SE Section = 695, SP Section = 421, NP Section = 601, Western Section = 577

5124 + hours of credit issued for 16 seminars

273 Students at the Spring School in Morganton

B-Well = 14, C Well = 47, A-Surface = 26, B-Surface = 56, C-Surface = 53, Advanced Day = 77

290 Students at the Annual School in Raleigh

A-Well = 17, B-Well = 17, C Well = 48, A-Surface = 39, B-Surface = 39, C-Surface = 67,
Advanced Day = 64

17 Corporate Sponsors and 1 Advertiser

Thank you for another great year!