



*NCGWA
Celebrating Over
70 Years*

MARCH 2019

WATER WORDS

A Letter From The President

Hello Everyone,

Another big thanks are in order. Thanks for all of you that attended the NCGWA winter show. Those of you that were not able to attend, I think it was one of the best in recent history. Hopefully you can make it next time. It all started Thursday afternoon with a great roundtable discussion. We had four good topics but from great participation we only got to the first two topics. I look forward to the next opportunity for another roundtable. Friday was very busy starting with a representative from the Department of Revenue speaking about the sales tax obligations we are facing in our industry. Our next class, Well Rehabilitation Why, How, When and then What, was lead by Mike Schneiders. We also had a great turnout of vendors showing us their latest products. These products will surely help us serve our clients. During lunch we held our general membership meeting. Thank you to the elected board members for your continued commitment to serve. We had another successful auction and raffled off a side by side ATV with its own trailer. John, with the Water Wizard was the lucky winner this year. It could be yours next year! So, a big thanks to all of you again that participated in this event. Together we are Better.

On a personal note, I want to thank you for allowing me to serve as your President for another year. I will continue to represent you and this office as a groundwater professional. I will work hard with others to insure that we keep the right to provide, protect, and preserve this great resource of water. For me to give you my best, I must be my best, and I can only do that with continued education. Back in the day when I was younger and still in school, education was not the most important thing on my mind. Remember, I was young and knew everything. As I have grown older, I have learned how important continuing education really is. As life evolves so should education.

“Education is what remains after one has forgotten what one has learned in school”.

Albert Einstein

I reflect on how labels of well drillers have evolved. First, we were called a well digger. That was a person with a shovel that looked for water. Now we are called a well driller, which is a person with a very expensive piece of equipment called a drill rig that looks for water. The next generation driller will most likely be called a groundwater professional. We now live in a world where information is so readily available. When people call on a well contractor for service, they expect that person to know how to drill as well as know everything about all the new technologies on moving that water to a point of use. They will also expect well contractors to know everything on protecting the water from a new generation of harmful contaminants such as gen-x, PFOA, or PFOS. People are demanding to know and rightfully so; that the water they are drinking is safe. The only way I know to provide that service is by continuing education in the groundwater profession. Education is never cheap. So how does a person pay for this education? Learning to charge for what your services are worth! Sounds like another great roundtable topic.

In closing, I am humbled to have the opportunity once again to serve as your President. It does take time, but I also feel it builds on personal growth. We all want to be better. There are and will always be challenges in the groundwater industry. I'm confident that you and I can meet the challenges because, **TOGETHER WE ARE BETTER!**

With Respect, Chauncey Leggett

“Develop a passion for learning. If you do, you will never cease to grow”

Anthony J.D' Angelo

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PUBLICATION DATES

Articles and ad deadlines

are the first day of

MARCH

JUNE

SEPTEMBER

DECEMBER

Any and all NCGWA members are encouraged to send information on past or coming events or news articles that would be of interest to other well drillers. Please send profiles of well drillers/companies that you feel deserve to be highlighted in our newsletter.

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Review Class

On Thursday, January 31st, at the start of the NCGWA Winter Trade show, a round table discussion was held covering a range of topics important to the North Carolina well contractor community. One of the topics dealt with is how to improve the passing rate for those applicants taking the Well Contractors Certification Exam. One of the suggestions presented was the development of a review type class that applicants could take that would help them prepare for the exam. This would help by focusing their exam preparation in areas pertinent to the expected material which might be contained in the exam. Several former and current Well Contractor Certification Commissioners and staff were present, and this review class concept garnered a lot of discussion. As a result, the Well Contractor Certification Commission discussed the possibility of putting together some sort of a review class at their scheduled meeting on Tuesday, February 5th and concluded that this was a good and practical idea. Well Contractor Certification Commissioner, Billy Yow, has since advised that the Certification Commission staff are preparing such a review class and will be coming to his place of business to present it to a few of his employees who are actively seeking certification in sort of a "trial run" of the review class. This would be used to "work out the bugs" and refine the process so that it can be useful. It is the hope of the commission that this class can be presented to small groups of 10 or less as needed so that the overall passing rate can be improved. NCGWA thanks the Certification Commission for embracing this idea, and also thanks to all those who participated in the round table discussion at the Winter Trade Show for their ideas and suggestions. This type of communication from the membership helps the NCGWA board of directors to better represent and meet the needs of the members.

Mike Floyd

What is Your Maintenance Mindset?

Think about the cars alongside you on the road. Are they maintained for optimal, efficient operation or just enough to remain in use? How about the homes in your town? Are they nicely painted, properly insulated, and all major appliances in good working order? I'm going to guess there was at least a moment of hesitation in there or the flash of an image of a house in need of repair or perhaps an automobile you'd be hesitant to park next to. Unfortunately, many potable well systems fall into this same category—maintained just enough to keep them running and meeting the state's minimum testing requirements. No category of wells is immune to this with residential, municipal, and industrial candidates aplenty. Per Merriam-Webster, maintenance is defined as the process of maintaining or preserving something; the upkeep of property or equipment. When applied to a potable well, what does this mean? That answer can change from owner to owner, state to state, and even contractor to contractor with a variety of benchmarks and terms.

Identifying the Problem

For some, it could focus on efficiency and the cost to produce the needed water. This often manifests as the tracking of specific capacity (SC). A well's specific capacity is equal to the discharge rate (in gallons per minute) divided by the amount of drawdown (in feet). A lot goes into that calculation and the change may reflect changes in the well, the aquifer, or both. Use of the specific capacity as a benchmark for maintenance can differ based on the well size as a larger high-capacity well can still meet demand even with a greater decline, while the realization may be faster and more significant in a smaller well of lower capacity. A good rule of thumb is a 20% loss in specific capacity is significant and a solid indication that the well should be evaluated for maintenance. To some owners, impacts on the use or treatability of the produced water are an

effective means of monitoring the need for maintenance. Discoloration, high turbidity, taste, and odor issues can alter the use and application of the water or cause a need for more advanced treatment prior to use. While not an exhaustive list, these few changes can often indicate more significant developments are occurring downhole. Discoloration, such as the sudden onset of red water, can mean iron bacteria are present or chemical corrosion is occurring—or both. In addition to aesthetic impacts, the occurrence of red water can challenge filtration and disinfection. High turbidity—reflective of increased aeration, sediment, or congested water chemistry—can impact the water quality, treatment, and handling of the water. Taste and odor, even subtle changes, can cause a number of challenges for owners of small and large wells alike. In public water supply wells regularly tested, water quality is often used as an indication of the need for maintenance. While seen as a “run to failure” method, it is commonly used, especially in smaller wells and in rural systems. In short, it means the well is operated until a maximum contaminant level (MCL) is reached per testing guidelines set forth by the individual state, which is typically a reflection of the U.S. Environmental Protection Agency National Primary and Secondary Drinking Water Standards. A common example is the use of total coliform testing as the primary means of evaluating the presence of bacteria. Coliforms are a large group of bacteria including many opportunistic pathogens, including *E. coli* and other common soil bacteria. Oftentimes, the well had other microbial issues developing, but it wasn't until a coliform occurrence that the extent of the problem was understood.

Addressing the Problem - For the Complete Article—
<https://waterwelljournal.com/what-is-your-maintenance-mindset/>

NCGWA Representatives in Washington, DC

John Boyette, Past President, and I participated in this year's NCGWA Fly-In to Washington, DC on March 5 and 6th. The first day was spent in meetings, learning about the challenges we face with the PFAS contamination and the failing infrastructure of wells and pumping systems. We learned of the National Groundwater Monitoring Network which is part of securing America's groundwater resources. That evening we attended a reception where we were able to speak one on one with other groundwater professionals. The second day was filled with meetings on the Hill, starting in SC Senator Tim Scott's office. Then it was onto meetings with both offices of the Senators from North Carolina, Richard Burr and Thom Tillis. The day ended up meeting in Representative G. K. Butterfield's office. At the end of the fly-in we felt that it was a very productive trip. We both were very proud to represent the North Carolina Groundwater Association.

Chauncey Leggett, NCGWA President

Pictured:
Chauncey Leggett, Left
John Boyette, Right



NCGWA PUBLIC PARTNERS PROGRAM

For more than 70 years, the NCGWA has represented, educated and connected the industry in and around the great state of NC.

PROGRAM GIVES USERS A VOICE

The N.C. Ground Water Association is inviting you to help educate and inform the public and all water users about ground water, wells and rights. The Association recognizes the important role of the public to our industry, and we want to provide our members and the citizens of North Carolina the best opportunity for excellent communication concerning our most valuable natural resource.

The NCGWA Public Partners Program is designed to do just that. **Your have an opportunity to provide benefits of partnership with NCGWA to your clients.** This program will send email blasts to those who sign up for the service. We ask that you send your customers' information (name, mailing address, city, zip, email address) to NCGWA headquarters. This information will be used solely to contact those who wish to compensate NCGWA for the educational service. The address is listed below. **The annual fee will be \$20.**

The information your clients, public and all ground water users will receive will protect them and their investment moving forward as new laws, rules, potential crises emerge. Knowledge is a powerful weapon, and our offer is to keep the public safe and secure for years to come. In return, this tool will be invaluable in upcoming fights for ground water and well driller rights for our industry's lifetime.

This program will help maintain the important mission and values of the NCGWA. This partnership is a win-win for all parties involved. The long-term investment will pay off by building trust and building relationships.

NCGWA | PO BOX 41368 | RALEIGH | NC | 27629 | 919-876-0687 | ELAINE@EXECMAN.NET

Facts About Groundwater Usage

Top 10 Facts About Groundwater Use

- * Only 1 percent of the water on Earth is useable, 99 percent of which is groundwater.
- * The United States uses 349 billion gallons of freshwater every day.
- * Groundwater is 20 to 30 times larger than all U.S. lakes, streams, and rivers combined.
- * Groundwater accounts for 33 percent of all the water used by U.S. municipalities.
- * 44 percent of the U.S. population depends on groundwater for its drinking water supply.
- * More than 13.2 million households have their own well, representing 34 million people.
- * 53.5 billion gallons of groundwater are used for agricultural irrigation each day. In 1990 that number was 2.2 billion.
- * The largest U.S. aquifer is Ogallala, underlying 250,000 square miles stretching from Texas to South Dakota.
Scientists estimate it could take 6000 years to naturally refill the aquifer if it were ever fully depleted.
- * California pumps 10.7 billion gallons of groundwater each day, a third more than the second-highest state, Texas.
- * Groundwater is the world's most extracted raw material with withdrawal rates in the estimated range of 259 trillion gallons per year.

Congratulations Electrician/Well Driller/Pump Installer

Yes, I said it right. You are now a licensed electrician. Do you know the 150 to ground rule? The arc flash boundary rules? The PPE rules? Would you like to learn? The safety of your employees should come first. The safety of your customers should run neck and neck. Whether you like it or not, you are an electrical company and that has new rules for training, PPE, boundary setups, etc. If you would like the NCGWA to provide classes, please notify the NCGWA office at 919-876-0687. Thank you and let's work safely.

Reid Mullis

NCGWA CORPORATE PARTNERS

Baroid

Mark Whittle
PO Box 1675
Houston, TX 77251
mark.whittle@halliburton.com
281-871-5688



Drillers Service

Roy Lawson
PO Box 1407
Hickory, NC 28603
r.lawson@dsidsi.com
828-431-3245



Franklin Electric

Robb Armstrong
12 Summer Creek Court
Irmo, SC 29063
rarmstrong@fele.com
321-356-6752



Hole Products

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828-838-2110



Pentair Flow & Filtration

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714-227-8142



Preferred Pump

Phil Silvestri
203 South English Street
Greensboro, NC 27401
psilvestri@preferredpump.com
336-373-5900



Worth Pickard Scholarship

The N.C. Ground Water Association offers the Worth Pickard Scholarship to eligible students who are currently enrolled or who have been accepted into an accredited college or university.

Consideration will also be given to those seeking specialized courses of study, if the applicant is employed or otherwise involved in some area of the ground water industry.

For eligibility requirements and an application form, please visit:

<http://www.ncgwa.org/content/uploads/2015/03/WorthPickardScholarshipApplication.pdf>

The deadline for the 2019 scholarship application is April 15, 2019.

Contact the NCGWA office at 919-876-0687 for more details.

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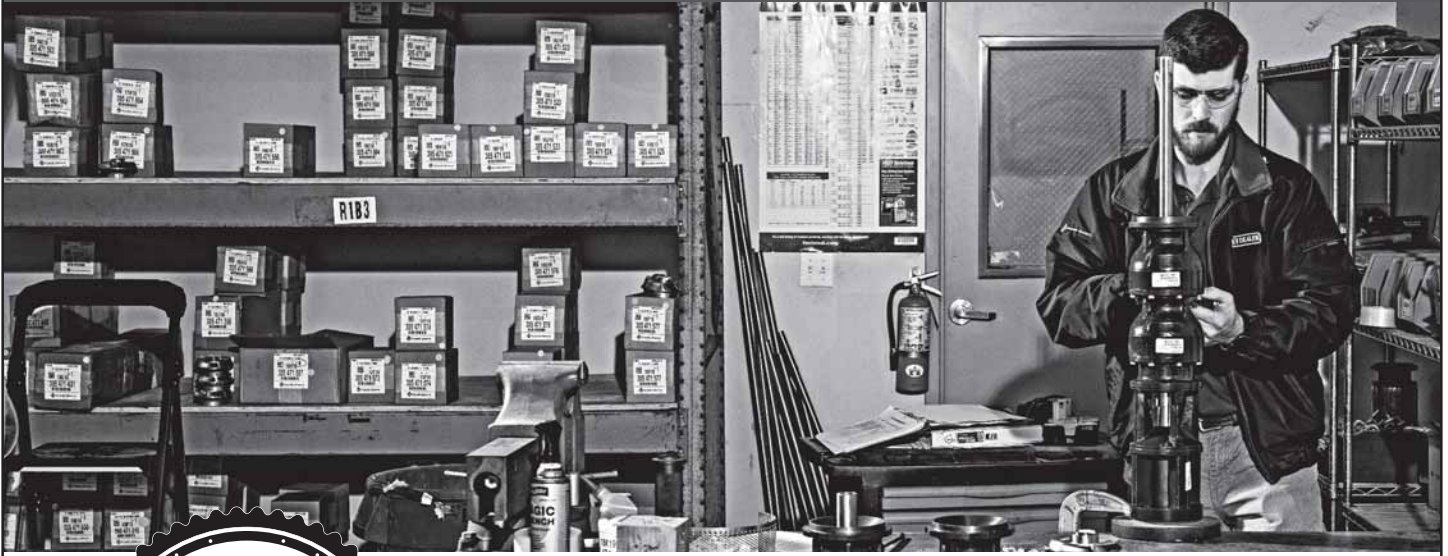
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- Diamond Plastics
- Galvanized Pipe
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- Oil Creek Plastics
- Silverline Plastics

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- Brandon & Clark
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- Remote Control Technology
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Calendar of Events

- ◆ Worth Pickard Scholarship Deadline - April 15, 2019
- ◆ Continuing Education - April 26, 2019, Wilson, NC
- ◆ 2nd NCGWA Golf Tournament - April 26, 2019, Wilson, NC
- ◆ South Atlantic Jubilee - July 27 - 29, 2019 - Myrtle Beach Convention Center, Myrtle Beach, SC

Continuing Education Opportunity

April 26, 2019 - Wedgewood Golf, 3201 Stantonsburg Rd, Wilson, NC 27893

Second Annual NCGWA Golf Tournament and Fundraiser

The NCGWA will hold its Second Annual NCGWA Golf Tournament and Fundraiser on April 26, 2019 at the Wedgewood Golf Course. The tournament will be held after the continuing education classes in the morning. The cost to play will be \$260 for a team of 4 players. The cost per person will be \$65. (If you are a single you will be put with a group.)



These prices include green fee, cart, lunch, mulligan, goodie bag, prizes and fun.

Prizes will be awarded to the top 3 teams. There will also be a Hole in One Contest, 2 Longest Drive Contest and 2 Closest to the Pin Contest.

Sponsorships are available - Hole Sponsor @ \$150 - Includes a Corporate Logo sign at one hole. We will need all sponsor information as early as possible but no later than April 20.

Special recognition will be made of Golf winners and all sponsors at the special NCGWA awards ceremony. Format for the NCGWA Golf Tournament will be a Captains choice. This format is simple. Each team member tees off and proceeds to the spot of the best drive where everyone hits their next shot. This continues until the ball is holed.

For a registration form please visit our website at www.ncgwa.org or call the NCGWA office at 919-876-0687. Please send all registration forms by April 20.

So put this date on your calendar and make plans to attend!

This Tax Season, Don't Lose Out on Fraudulent Tax Preparers

Tax season is here, and you may be considering hiring a tax preparer to help you file your taxes. Before you do, follow the tips on the NCDOJ website to help ensure you're working with a qualified, legitimate professional – not a scammer. This information can be found at:

<https://www.ncdoj.gov/News-and-Alerts/Alerts/This-Tax-Season,-Don%E2%80%99t-Lose-Out-to-Fraudulent-Tax.aspx>

NCGWA 2019 Trade Show and Continuing Education



NGWA President Elect Merritt Partridge, Left & NGWA Director John Boyette, Right

The NCGWA recently held it's annual trade show and continuing education January 31 - February 1, 2019 in Greensboro, NC. A round table discussion was held on Thursday afternoon. Topics included: Company License vs Individual, Advantages & Disadvantages for the NCWCC Going Independent & How do Internet Sales Affect Your Business. On Friday, Jonetta Appling from the NC Department of Revenue, addressed several scenarios that included sales and use tax. Mike Schneiders spoke on "Well Rehabilitation: Why, How, When and Then What". After CE classes were held, everyone enjoyed lunch and the time to visit with each other and vendors. There were 31 vendors attending the trade show this year. The business meeting was held after lunch along with the auction and raffle. This year our raffle item was a Massimo MSU-500 UTV with a trailer. If you were unable to make it this year, please make plans to attend in 2020!



NGWA President Elect Merritt Partridge, Left & NCGWA President Chauncey Leggett, Right

Thank You to Our 2019 Trade Show Exhibitors

<u>Company</u>	<u>Phone</u>	<u>Company</u>	<u>Phone</u>
Advanced Environmental Services	(336) 337-4331	National Pump Co.	(623) 979-3560
American Granby	(704) 650-2182	North Carolina 811	(336) 707-4528
Baroid	(803) 360-9232	Noland Drilling Equipment	(540) 982-8001
Charger Water Treatment	(434) 205-3463	Pentair Flow & Filtration	(714) 227-8142
Drillers Service	(828) 431-3245	Preferred Pump	(336) 373-5900
Drilling Equipment Sales	(828) 322-3056	Rakestraw Insurance Center	(800) 849-4678
Eastern Drillers Manufacturing Co.	(717) 684-3070	Rotary Drill Service	(828) 465-0132
Flint and Walling	(260) 318-0433	Simmons Manufacturing Co.	(770) 957-1808
Flomatic Valves	(518) 761-9797	SME USA	(623) 478-1883
Franklin Electric	(260) 402-3787	South Atlantic Jubilee	(855) 987-7469
GEFCO	(580) 747-7566	Submersibles & Electric Inc.	(352) 302-8752
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Hole Products	(828) 838-2110	Water System Council	(202) 625-4387
Jefferson Sales South	(423) 224-2307	Water-Right	(920) 460-6094
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Thank You to Our Trade Show Sponsors!

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North Carolina Ground Water Association - Membership Application

Active Members: Contractors Division

- *Any person engaged in the business of well drilling. *Any person engaged in the business of monitoring well drilling.
- *Any person engaged in the business of installing, maintaining, and repairing pumps and who is authorized to execute contracts in connection therewith but does not engage in the business of water well drilling.

Active Members: Non-Contractors Division

- Manufacturing:** Any person engaged in manufacturing equipment, materials, or supplies in the ground water industry.
- Water Equipment Wholesalers and Suppliers:** Any person which does no contracting for the drilling of water wells and/or installation and servicing of water pumps, and which:
 - *is an established wholesaler maintaining warehouse and stock of pumps, pump parts and other water handling equipment which are sold regularly to dealers and/or contractors for resale; or
 - *is engaged in the business of supplying equipment, rigs or tools or rendering specialized services to the water well industry from an established place of business in its trading area.
- Technical:** Any person engaged in the supervision, regulation, evaluation, development or investigation of underground water supply installations or related to technology or any individual in an accredited university, college or preparatory school, public or private, studying or teaching subject matter embracing the water well industry.

_____ **Active Members-Contractors, \$75 per person, per year**

_____ **Active Members-Non-Contractors, \$75 per person, per year**

Associate Members: Any eligible person interested in the work of the Association who is not eligible to become an active member may become an Associate Member. _____ **Associate Members \$75 per person, per year**

1. Name _____ Commission Issued Certification # _____
2. Company _____ Phone _____
3. Street/P.O. Box _____ Fax _____
4. Town/State/ZIP/County _____
5. Email _____

Please *check what type of membership and fill out your information* and send it, along with your payment, to NCGWA, P.O. Box 41368, Raleigh, NC 27629. Make checks payable to NCGWA. If you would like to make payment by paypal or if you have any questions, please call the NCGWA office at 919-876-0687.