AzWWA Membership Meeting
Saturday, April 20, 2019
Coco’s Restaurant
2026 N. 7th St.
Phoenix, AZ

Agenda
8:30am Meet & Greet
9am Guest Speaker – Todd Eden, HCT, LLC

"What 800 Well Rehabs Across the Western USA Have Revealed - Extraction, Injection, Vadose and Artesian"

Business meeting will follow Todd’s presentation

Please join us!
Any questions, email admin@azwwa.org or call 480-609-3999

REGISTRATION
(Scan and email to admin@azwwa.org)

Name:__________________________________________________________
Company:____________________________________________________________________
Address:_____________________________________________________________________
City:_________________________ State:_____________ Zip:_____________
Phone:____________________ Email:__________________________________________

Number of people attending ________

Fax registration to 480-609-3939 or mail to:
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Tempe, AZ 85283
Fax: 480-609-3939
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GOT NEWS?

Any upcoming or recent events?
Open Houses?
Other Events?
Jobsite Photos?
Articles?
New Products or Services?
Items for sale? Weddings? Births?
Obituaries?

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Mountain States Groundwater Expo  
February 7 & 8, 2019  
30 years of success!

Celebrating the 30th anniversary of this event, it continues to be successful and a great opportunity to visit with others in our industry, share information, check out products or services and listen to some great presentations. Two AZWWA members gave presentations this year. Both speakers were very well received and had over 100 in attendance!

On Thursday, John Fowler, CSP, National EWP, AZWWA Safety Director, gave a presentation on ‘Drilling Safely and New Crane Standards’. John also spoke about procedures for air & fluid pressure inspections and hazards, use and inspection of wire rope and rigging, the new OSHA Crane Standard and how it affects the drilling and pump Industry.

On Friday, Chris Catalano, PG, Geolog LLC, AZWWA Technical Director, spoke about ‘Well Design from A to Z – Construction of High Yielding Wells in a Sandy Aquifer’. He also discussed site selection, drilling methods, collecting and identifying samples, reading geophysical logs, and well design and development.

Every year, AZWWA donates an item to the Buck Lively Scholarship Auction and thanks again to Nathan White, he found an awesome Ruger New Vaquero 45LC pistol for AZWWA to donate this year and Bill Johnson Equipment Company donated the holster. The gun and holster generated a lot of interest and after some serious bidding, sold for $4000!

Our Arizona Exhibitors and Attendees were also very supportive of the Scholarship Fund by donating cash and/or items to the Auction and Raffle – and bidding on Auction items, too. A total of $30,215.00 was raised, resulting in each of the AZ, CO, NM, NV and UT Associations receiving $6,043.00 for their scholarship programs.

Each state Association will also receive a percentage of the Expo’s net profit, a portion of which is based on Registered Contractor Attendees from their state.

Next year’s show will again be at the Aquarius Casino Resort in Laughlin, NV on February 6 & 7, 2020 so mark your calendars!
Our Guest Speaker at our Membership Meeting in January was Rita Maguire, Esq., former Director of ADWR, who talked about the Drought Contingency Plan. Since she was very familiar with the decision-making process and the many facets involved, she provided us with a lot of details and information. With the deadline of January 31st only a few days away, this was an important topic that generated a lot of interest and discussions. She also elaborated on Arizona’s water situation and the people or groups involved from all areas of our state including the Indian Tribes, municipalities, counties, various Irrigation Districts, etc. Our Business Meeting followed her presentation.
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Gary Hix presented his McEllhiney Lecture in Deadwood, SD on March 11th.

Gary had a large audience with people from both North Dakota and South Dakota in attendance.
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Money for Farmers Bill Revived in Senate

Rebuffed by a House panel, a Globe lawmaker convinced a Senate committee on March 12th to give Pinal County farmers $20 million to help drill new wells to replace Colorado River water they will be giving up.

The 6-3 vote by the Senate Appropriations Committee came after Republican Rep. David Cook argued that the farmers were promised the cash as part of the drought contingency plan enacted by state lawmakers at the end of January. He wasn’t the only one to make that claim. “The promise made during these negotiations was, ‘We will collectively give you money that you would not have to be able to produce water you otherwise would not produce by 2023,’ ” said Dan Jones, an attorney for several irrigation districts.

And Tiffany Shedd, an area cotton farmer, said agriculture interests were told to give up their Colorado River water “and we’ll make this right, we’ll help you be able to pump more.” “We took that on faith,” she said. “This is part of the DCP.”

But the comments drew a stern rebuke from Sen. Lisa Otondo, D-Yuma, who was a key member of the committee that negotiated the drought plan. “I will not sit here and listen to (a) half-told story,” she said. Otondo said the farmers are entitled to water “if available.” “Well, guess what?” Otondo continued. “Times changed. The drought hit.”

What’s missing from the conversation and the demand for more cash, said Otondo, is that farmers had years before agreed to a lower priority claim on Colorado River water, getting $343 million in subsidies.

And Otondo said the farmers are not being left out in the cold. She said the original offer when the drought plan was being negotiated was for $5 million. That got boosted to $9 million in the final plan, with another $10 million from the Central Arizona Water Conservation District.

Now the irrigation districts that serve the farmers want $20 million more. “There was never a promise to make or pay for the infrastructure in Pinal County,” Otondo said.

The March 12th vote comes less than three weeks after the House Appropriations Committee killed identical legislation. So Cook figured he’d try his luck with the Senate panel. Cook was able to get the legislation in front of the Senate committee by replacing the language of a live bill with the language of his bill that died in the House.

But none of this guarantees that the farmers will get the money. Even Sen. Vince
Leach, R-Tucson, whose district includes part of Pinal County, said the ultimate decision is going to have to be part of the negotiations over the $10.4 billion state budget. Leach said, however, his colleagues should look at this not as a grant but as a loan in anticipation of the Pinal irrigation districts getting a federal grant the farmers presume will come through – eventually.

Central to the debate is that Lake Mead is likely to drop below 1,075 feet by next year, triggering a first-level shortage.

The DCP deals not only with Arizona getting less water from the river immediately but also designed to keep the lake from dropping any lower and forcing even further cutbacks. Overall, the plan calls for the state to take an 18 percent reduction in its Colorado River allocation, about 500,000 acre feet of water. An acre foot is considered enough to supply two or three typical homes for a year.

Part of the water is being made up through deals with Indian tribes. But it also presumes that farmers will replace some of what they are losing by being able to draw 70,000 acre feet of water from underground by 2023.

What that leaves is the cost of new wells and canals, estimated at about $50 million.

Attorney Paul Orme who represents several of the irrigation districts said there is a belief that the federal grant eventually will come through. “We’re just very concerned about the timing,” he told lawmakers, especially with the expectation that the farmers will have access to their replacement groundwater by the end of 2022. But Orme said the whole purpose of this was to replace the Colorado River water the farmers would have received if the drought contingency plan had not been enacted. “By agreeing to the DCP, the folks on the steering committee, of which I was one, said, ‘We’ll make sure you have access to this new groundwater availability,’ ” he said. “It was never meant to be self-funded.”

It is that assumption that the farmers are entitled to the water – and funds to help get it – that Otondo challenges. “They were the lowest priority,” she said, having already agreed to take the first cuts in times of shortage.

That question of whether there was a promise depends on how someone reads the language in the original drought contingency plan.

It does say that the Legislature intends that the well construction and rehabilitation projects be completed by the end of 2022, saying that date depends in part on “the timely receipt of grants from federal agencies.” And it specifically says the Legislature “may consider” other appropriations “after reasonable attempts are made to secure the funding and that federal monies were not provided timely to carry out the purposes of the fund.”

But that language is strictly permissive and does not promise that lawmakers will come up with the cash.

Shedd told lawmakers there’s a cost of not providing the $20 million. And that, she said, would be destruction of a $2.3 billion industry. The loss of jobs and tax revenues, Shedd said, would have ripple effects on much of the rest of the county, including on residents of retirement communities like SaddleBrooke and Robson Ranch.

Why does someone believe you when you say there are four billion stars, but check when you say the paint is wet?

Evening news is where they begin with ’Good evening’, then proceed to tell you why it isn't.

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On February 19th, several friends and colleagues got together at the Stockyards in Phoenix to celebrate Bill’s retirement. Some shared various stories and experiences they’d had with Bill throughout the years, including the owner of the Stockyards. Many in attendance wrote notes or signed the frame of a large photograph of Bill given to him as a souvenir. It was a really fun evening with lots of laughs and great people coming together to honor Bill!

Mincon Acquires Pacific Bit

Early this year, Irish rock tool drilling company Mincon announced its acquisition of Pacific Bit of Canada. Pacific Bit of Canada, based in Vancouver, is a long-established and successful business distributing quality products to mining contractors, quarries, well drillers, rock excavation contractors, shoring and piling companies, primarily throughout Western Canada. The Pacific Bit team will stay in place to develop the business with the North American team of Mincon, continue to build revenue and distribution in the coming years.
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For more information or to request a Scholarship Application, please contact our current Scholarship Chair or the AZWWA office as listed below:

**Scholarship Chair**
Fred Tregaskes
ftregaskes1@gmail.com
PH: 480-404-2788

**AZWWA Office**
Debbie Hanson Tripp
admin@azwwa.org
PH: 480-609-3999
On December 10, 2018, the new OSHA crane regulation (1926.1400 Subpart CC) went into effect. The conversation about requiring a higher level of crane operator training started around 2003 with OSHA proposing a new standard in 2008. Since then the standard has been postponed 5 times as OSHA worked with the industry to clarify some items and make sure that the standard was reasonable. The new crane standard has a lot of regulations for inspecting cranes, working around power lines, when you need a qualified rigger and a multitude of other topics regarding crane operation, but the one regulation that is getting the most attention is the operator certification requirement. In summary, the standard says that any crane operator working in the Construction Industry operating a crane with more than 2,000 lbs. of capacity must be a nationally certified operator or directly supervised by a nationally certified operator.

So, how does this ruling affect us in the water well drilling and servicing industry? Unfortunately it is a little complicated and not as clear as most people would like it to be. There are really two questions that are asked about the new standard. The first question most people have is: Do my crane operators need to be certified? And the second question is: What does OSHA consider a crane? Is my drill rig or pump rig considered a crane?

The answer to the first question depends on what activity the crane operator is engaged in. The new crane regulations are for the Construction Industry which is defined as activities involved with “construction, alteration, and/or repair, including painting and decorating.” However, 2/26/1982 an OSHA Standard Interpretation was written that said “Water well drilling, oil, and gas well drilling expose employees to similar hazards, therefore, employers engaged in drilling operations shall comply with appropriate General Industry Standards.” This would mean that water well drilling falls under General Industry standards and the Construction Industry standards would not apply. But, there is still some uncertainty because the wording specifically says “employers engaged in drilling operations”. What about when you are setting up to drill? Or using a crane to load or unload equipment for the project? It is not entirely clear and I wish I had a better answer, but I can say that when you are using a crane specifically during water well drilling operations your operator does not need to be certified.

The answer to the second question concerning what OSHA classifies as a crane is a little more clear cut. OSHA defines a crane as anything that can “hoist, lower and horizontally move a suspended load” 1926.1400(a). When OSHA uses the term hoist they mean with a winch and hook. But OSHA has also included a list of equipment that is specifically excluded from the standard and that is not required to follow the new crane standard. And, in 1926.1400(c)(11) OSHA specifically excludes “Dedicated drilling rigs” from having to comply with the new standard.

Whether or not pump rigs are excluded is not as clear. I emailed OSHA and asked them how the new standard was going to impact pump rigs. I mentioned that pump rigs do not only work on water wells (for example, they work on monitor wells, injection wells) and that pump rigs often can boom up and down and even telescope out like a mobile crane. OSHA responded that “During the performance of water well drilling, a hoist is used to lower the pump and possibly other objects into the well and for other purposes related to the drilling process. Is use of the hoist covered by the requirements of the cranes standard?, with the following answer; No” So, they are stating that as long as the hoist is used as part of water well drilling and for other purposes relating to the drilling process the pump rig is not covered by the new crane standard. Where there will be questions is if a pump rig operator uses his pump rig for something unrelated to water wells. For example, if you use a pump rig to build a pump house or construct a windmill. While there is still some question as to how this standard is going to effect the water well drilling and servicing industry, in my opinion, it is going to be the commercial clients who mandate crane operator certification for their projects who will drive operator certification in our industry. In fact, many large commercial clients are already mandating operator certification and several large mining companies are as well, even though MSHA has no certification requirements.

How do you become certified? There are four nationally accredited training programs in the country: 1) Crane Institute Certification (CIC) www.cicert.com, 2) National Commission for the Certification of Crane Operators (NCCCO) www.nccco.org , 3) National Center for Construction Education and Research Crane Operator Certification Program (NCCER) www.nccer.org/mobile-crane-operator-certification and 4) Operating Engineers Certification Program (OECP) www.oecp.org . Of the four, only the CIA, NCCCO and NCCER are open to the general public. There are also third party trainers available, but they will be representing one of these companies.

OSHA has also added two new requirements to the operator certification that you should be aware of. OSHA requires documented training on whatever crane is being operated and a documented evaluation of the operator operating that specific crane. These two requirements make sense when you look at the big picture. The national certification shows that you understand the principles of crane operation and the training and evaluation shows that you know how to operate that specific crane. The training and evaluation can be done by the employer and documented using the employer’s form.

(Continued on page 29)
The requirements for training are showing competence in the
• Safe operation of the specific crane being operated.
• Controls and performance characteristics
• Calculating loads and capacity
• Preventing and responding to power line contact
• Suitability of the supporting ground
• Understanding the owner’s manual

The requirements for the evaluation should verify that the operator can perform the hoisting activities required for the work he/she is assigned. The evaluation needs:
• Name of the operator
• Name of the evaluator
• Date of the evaluation
• Make, model and configuration of crane.
• Signature of the evaluator

The new crane standard is finally being enforced and there is a lot of talk about cranes and the competency of crane operators. Regardless of whether or not crane operators in the water well drilling and servicing industry are required to be certified, in my opinion, it makes a lot of sense to go ahead and have your operators certified. Just think, if a crane that tips over it can potentially hurt or kill innocent people on the ground and cost hundreds of thousands of dollars in damage to the crane and potentially other property damage. Even if a crane tips over on a commercial client’s property and no one is hurt and there is only damage to your crane do you think that the commercial client is going to want you to keep working for him? Maybe, but most likely he will not. Let’s make sure that our crane operators understand how to safely operate a crane and can use the load chart to determine the crane’s capacity. And requiring operators to be certified will ensure that they can safely do both those things.

John Fowler is Safety Manager for National EWP and can be reached as follows:

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1200 West San Pedro Street
Gilbert, AZ 85233
480.558.3500 PHONE; 480.558.3500 FAX; 480.352.2041 CELL

Epiroc Acquires Noland Drilling Equipment

Acquisition will strengthen Epiroc’s footprint and capabilities in the U.S. water well drilling segment

Epiroc, a leading productivity partner for the mining, infrastructure and natural resources industries, has acquired the assets of Noland Drilling Equipment, a U.S. distributor of water well drilling equipment and related parts, services and consumables.

Noland Drilling Equipment is based in Roanoke, VA. The company operates in several states mainly in the southeastern United States. It has eight employees.

“Epiroc and Noland Drilling Equipment have had a strong distribution relationship for many years,” said Rob Root, Epiroc Vice President, Product Support and Service Centers. “The addition of the Noland Drilling Equipment location and team to Epiroc will strengthen our footprint and capabilities in the U.S. water well drilling segment in our drive to provide the best in water well products, parts and services.”

The purchase price is not material relative to Epiroc’s market capitalization and is not disclosed. Noland Drilling Equipment becomes part of the Epiroc Mining and Rock Excavation Service division.
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FLINT & WALLING 4-INCH MOTORS

It's not enough that we build premium pumps; we also build our own motors, right down to the windings, right here in Kendallville USA. And we insist on testing them again and again—and again. We test before assembly, throughout manufacture, after pump integration and yet again through extensive field audits. We do this, all to ensure our 4-inch motors will perform and pass the ultimate test—yours.

That's premium quality and reliability—tested and trusted.

Call 800.584.8089 or visit FlintandWalling.us/Distributors to locate a distributor near you.
Events Calendar

April 20, 2019
AzWWA Membership Meeting
Coco’s Restaurant
2026 N. 7th St., Phoenix
Meet and Greet: 8:30am
Speaker: 9:00am

June 21, 2019
Golf Tournament
Quailwood Greens Golf Course, Dewey, AZ
9am Shotgun Start

Membership Meeting and Dinner
Prescott Resort and Conference Center
Prescott, AZ
5:30pm Meet & Greet; 6pm Dinner

June 22, 2019
Picnic, Auction, Chili Cook Off and Horseshoe Tournament (8am)
Goldwater Lake, Prescott
8am—??

February 6 & 7 2020
Mountain States Ground Water Expo
Aquarirus Casino Resort
Laughlin, NV
For more information go to
www.mountainstatesgroundwater.com