

July 2018

IGWA Newsletter

The newsletter of the Indiana Ground Water Association (IGWA)

IGWA Office: PO Box 160, Covington, IN 47932 • Phone: 888-443-7330 • Fax: 765-231-4430
Email: ingroundwater@gmail.com • Website: www.indianagroundwater.org



Letter from the President

Those long summer nights...it's that time of the year where the sun stays up and the work day stretches out as well. We all go the "extra mile" for our customers and homeowners, and in return they help this industry go around and put food on our tables. The term "going the extra mile" is an old expression, originally found in Matthew 5:41: If anyone forces you to go one mile, go with them two miles.

It may seem crazy, but we work in a service industry from the bottom to the top, and the first one to the site usually wins the job. However, we all know that doing the extra service is what is important for the business and customers. That's why it's important for the service we provide to be top notch and quick — both for you and the homeowner. We all want our phone numbers to be the first and only call our customers make. So, we go the "extra mile."

So, what does the "extra mile" mean to you? I know well water contractors that care for their customers as much as their families. My "extra mile" is taking phone calls day and night; my most recent was a 5,000-hog farm in Coldwater, Michigan on a Sunday. This guy's business means the world to me and I try to be there for him when I can. Another story was the call I took between innings while coaching first base... the customer understood and I called him back at my earliest convenience. Both were simple solutions that we just needed to talk out to solve.

Sometimes we are rewarded with a simple note, or a with today's technology a Facebook post, no matter the means of thank you it always well received.

So, what's your extra mile? Is it ending a camping trip early to help a customer, is it the flyers that you send out to prospect new customers, or is it the stickers placed on a job well done? The "extra mile" can mean something different to everyone. Whatever your mile is be sure that you are building a better industry knowing that you have a solid customer base.

Sincerely,

Greg Parker, Franklin Electric

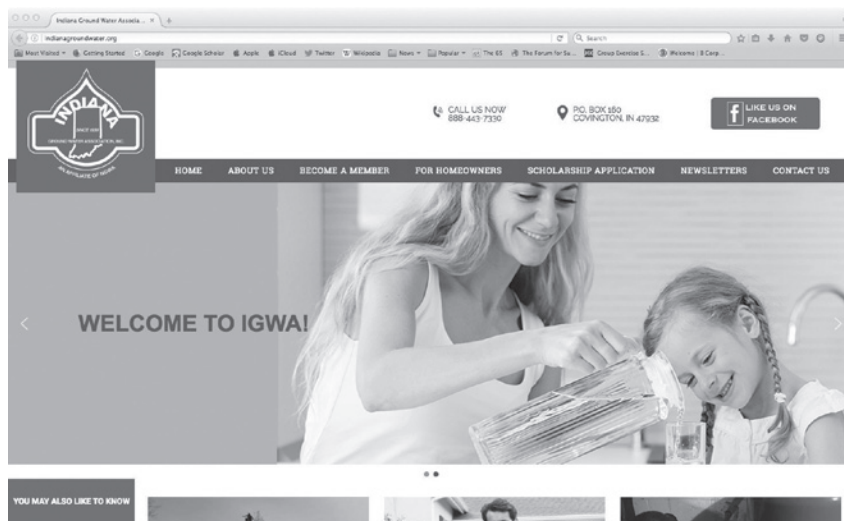
NEW IGWA WEBSITE

We recently redesigned the IGWA's website. The web address is still the same — www.indianagroundwater.org.

Along with the redesign, there are some new items added as well as some advertising changes to the site.

- **The first new item is a Members Only section.** You need a password to enter this page. Passwords were emailed, faxed or regular mail (if we did not have email or fax on file) June 11. This page has many useful quick links for your use. To keep it members only, each year in January we will change the password to all paid in full members. Some things you will find there are quick links to the DNR database, well viewer, county listings of permits, IDEM links and more. If there is something you think we should add, please contact the office. This is a page for you the member!
- **On the Home page there is a scrolling business card.** This is open to both Suppliers and Contractors. We can link your web page to the card so your business is only one click away from new customers!
- **We have a couple of classified pages as well now.** There is one for Parts & Equipment and one for Help Wanted. These are free for members and small fee for non-members.
- **The Find a Contractor page has been made more user friendly.** Customers can search by city, county, name, etc. Under the county listing, currently the county the member is based is listed. BUT you can have added to that any county that you work in. Just email or fax the office with your company name and the counties that you work. We will get them updated. Also check your information to make sure we have the most recent address, phone, and email listed for your company.

The redesign was to make the website more useful and user friendly. If you have any feedback, please let the office know at ingroundwater@gmail.com.





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2018 JOSEPH L. ARMSTRONG FAMILY IN BUSINESS SCHOLARSHIP WINNERS ANNOUNCED

The IGWA scholarship committee received six applications this year for the scholarship. Our selection process is a blind process. The scholarship committee only received redacted applications. They make their choices based on content only.

After much deliberation the committee chose three applicants who stood out from the rest. Each winner was awarded a scholarship of \$750.00. They are pleased to announce that winners this year are:



Samantha Rash

Samantha's parents are Jeff and Natalie Rash of Dave Sigman Well & Pump Service in Indianapolis, In. Samantha will attend Ball State University to study Radiology.



Madison Moreland

Madison's parents are Nathan and Jessica Rutledge of Rutledge Well Drilling in Atlanta, In. Madison will attend Anderson University to study journalism.



Megan Weinzapfel

Megan's parents are Jeff & Lori Weinzapfel of Weinzapfel Well Drilling & Plumbing Inc. in Evansville. Megan will attend Brescia University to study Speech-Language Pathology.

The IGWA recognizes these students as outstanding applicants. We wish them great success in their pursuit of higher learning.

If your student has submitted an application in the past, they may re-submit every year, even if they were awarded a scholarship in the past.

The IGWA scholarship application is located on the IGWA website at www.indianagroundwater.org.

BIENNIAL CONVENTION November 1 & 2, 2018

We have several exciting classes lined up. Some of these are Indiana State Police, DNR, IDEM, Solar, VFD's, Pumps & Tanks, Resistivity, PFAS, Electrical and a McElhiney speaker. The trade show features many exhibitors to answer your questions! Look for registration in August!





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Indiana Ground Water Association LIFETIME ACHIEVEMENT AWARD

Call for Nominations – Due October 1, 2018

This prestigious award has been bestowed upon ground water industry professionals for many years.

Nominee's Name (as it should appear on a plaque and in publications):

Nominee's Company: _____

Nominee's Phone No.: _____

Nominated by:

Name: _____

Company: _____

Phone Number: _____

Email: _____

Please include a brief bio and reasons for nominating this individual, including their industry affiliation and contributions. You may use an additional sheet of paper.

The IGWA Executive Committee will vote on the nominees.

Submit nominations by FAX: 765-231-4430 OR Email: ingroundwater@gmail.com by October 1, 2018.



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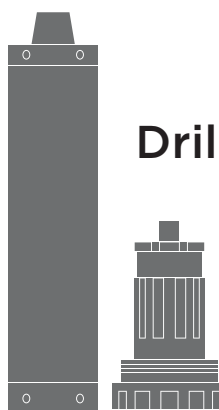
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Indiana Ground Water Association BOARD OF DIRECTORS 2018-2019

Call for Nominations – Due October 1, 2018

If you are interested or would like to nominate someone to serve on the IGWA board of directors, please submit your nominations by October 1, 2018. The 2018-2019 board members will be elected during the Annual Membership meeting on Friday, November 2nd during the Annual Conference at Michigan City. The final ballot will be available on November 2nd at the annual meeting.

There are two board positions that are up for election. Dale Remmler is up for re-election for one of the positions. If you would like to nominate another person to run for one those spots as well, fill out and return this nomination request.

Note: Please request the approval of the person you wish to nominate. They must be present at the November 2, 2018 meeting.

Nominee's information:

Name _____
Company _____
Phone Number _____

Nominated by (your information):

Name _____
Company _____
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Submit nominations by FAX: 765-231-4430 OR Email: ingroundwater@gmail.com by October 1, 2018.



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Kokomo Jackrabbits game
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OVERHEAD POWERLINE SAFETY

In May in Colorado Springs, Colorado two men died when their drilling rig hit a 12,500 volt powerline. They were taking soil samples when the accident happened. They were electrocuted when this occurred.

The picture to the right is of the rig after the accident.

It seems this would be a good time to share an article that was published in the Water Well Journal on April 1, 2016.

Safety Around Power Lines

Does your crew know how to prevent electrocutions from contact with overhead power lines?

By Jerome E. Spear

Contacting energized power lines can result in fatal electrocutions, if not serious burns or damaged equipment. Contact with overhead power lines is the most common cause of deaths involving cranes or other high-reaching equipment.

Reviewing causes of crane-related deaths in construction from 1992-2006, electrocutions accounted for almost one third (32%) of crane-related fatalities. Half of all the electrocutions occurred when the crane boom or cable contacted an overhead power line. The rest involved a power line coming into contact with parts of the crane (McCann et al. 2008).

Some years ago, the Occupational Safety and Health Administration revised its requirements for working around overhead power lines. These revisions were contained in OSHA's Final Rule for Cranes and Derricks in Construction (29 CFR Part 1926) and published in the Federal Register in 2010.

OSHA determined a more systematic, proactive approach to preventing contact with power lines was needed. We will discuss these measures to prevent contact with an overhead power line, as well as what to do if contact is made.

Assess the Hazard

Before beginning operations, a hazard assessment inside the work zone must be performed. The hazard assessment must:

- Identify the work zone and assess it for power lines. Determine how close the crane or any high-reaching equipment could get to the lines. The employer has an option of assessing the area the entire 360 degrees around the crane or assessing a more limited area.
- If the assessment shows the crane could get closer than 20 feet for power lines up to 350 kilovolts (kV) or 50 feet for lines over 350 kV — then requirements for additional action are triggered.

Eliminate the Hazard

If operations involving cranes or drilling rigs will be performed near overhead power lines and the minimum clearance distances specified by OSHA, shown later, cannot be maintained, the first option is to de-energize and visibly ground the power lines. By eliminating the source, the hazard of electrocution is eliminated.



Photo credit: Jerilee Bennett, The Gazette via AP

De-energizing the lines has to be coordinated with the utility company or owner of the line. The line owner may need several weeks to comply with the request, so the work should be planned appropriately. Only authorized personnel may de-energize a power line. All power lines shall be presumed energized unless the utility owner or operator confirms the power line has been, and continues to be, de-energized and visibly grounded at the worksite.

If the power line cannot be de-energized for the duration of the work, another option is to move the line the minimum clearance distance it can be maintained. Like de-energizing the line, only the company who owns the line may move it. Again, the line owner may need several weeks to comply with the request.

Keep Your Distance

OSHA's requirements regarding working near overhead power lines with cranes and other high-reaching equipment are straightforward. For lines 50 kV or less, the operator must keep all parts of the crane or other equipment at least 10 feet away from all power lines. For lifting equipment, this also includes any load being carried.

This minimum clearance distance is a buffer zone that must be kept between the equipment and overhead lines. In other words, Safety Around Power Lines *continues on page 12.*

29 CFR 1926.1408 Table A	
Voltage	Minimum Clearance Distance
Up to 50 kV	10 feet
Above 50-200 kV	15 feet
Above 200-350 kV	20 feet
Above 350-500 kV	25 feet
Above 500-750 kV	35 feet
Above 750-1000 kV	45 feet
Above 1000 kV	(As established by the utility owner/ operator or registered professional engineer who is a qualified person with respect to electrical power trans- mission and distribution)

Figure 1. OSHA's minimum clearance distances.



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Safety Around Power Lines *continued from page 10.*

minimum clearance is the minimum distance that is allowed from any part of a crane or other high-reaching equipment to an overhead power line.

If the lines have a voltage higher than 50 kV, the line's minimum clearance distance must be increased according to Table A of 29 CFR 1926.1408, *Power Line Safety — Equipment Operations* (see Figure 1).

Distribution lines are typically 50 kV or less, whereas transmission lines are typically higher than 50 kV. Distribution lines are the most common lines used by utilities. To determine the voltage rating of the power line, contact the utility company. If you still cannot determine the voltage range, you must keep at least 45 feet away.

Preventing Encroachment or Electrocution

If any part of the crane, equipment, or load (including rigging and lifting accessories) — while operating up to the maximum working radius in the work zone — could get closer than the minimum approach distance permitted in Table A, a number of precautions should be followed.

Conduct a planning meeting with the operator and other workers who will be in the area of the equipment or the load to review the location of the power lines and the steps that will be taken to prevent encroachment or electrocution.

If tag lines are used, they must be non-conductive, meaning they can't become energized. Tag lines are a rope (usually fiber) attached to a lifting load for controlling or stabilizing a bucket or magnet during material handling operations. One end of the tag line is attached to the load and the other end is held by a worker who controls the load's motion by exerting force on the line.

If the equipment or load were to contact a power line while an employee is holding a tag line that can conduct electricity, the employee would be electrocuted! Requiring the tag line be non-conductive is designed to protect against such an event. Under dry conditions, non-metallic fiber rope typically satisfies the definition of non-conductive.

Workers need to set up and maintain an elevated warning line, barricade, or signs in view of the operator — equipped with flags or high-visibility markings. These need to be 20 feet from the power line or at the minimum distance under Table A.

Barricades can be temporary fencing or equipment or storage containers placed at the minimum distance barrier to prevent equipment movement within the encroachment zone. Such boundaries must still be marked with flags, a warning line, or signs that limit all crane movement.

Important too: If the crane or equipment operator is unable to see the warning line, a dedicated spotter must be used.

Other safety measures include a proximity alarm, range control device, range of motion limiting device, or an insulating link. Other safety controls include insulated sleeves attached directly to power lines and boom-cage guards — which are non-conductive cages surrounding the boom of the crane.

All these measures and controls may further prevent and protect against contacting power lines. But the measures discussed earlier must still be observed if any part of the equipment or load could get closer than the minimum approach distance permitted in Table A.

What to Do If You Hit a Line

Power line contacts involving mobile cranes generally don't result in injuries to the crane operator. Injuries and death are often suffered by the riggers or workers standing near the equipment. The reason for fewer injuries to operators is equipment design. If a contact occurs, the operator is at the same voltage potential as the equipment is.

When the operator is isolated in the crane cab and contacts a line, the operator should wait in the crane and all other workers should stay away from the equipment. The line should be de-energized by the power company before the operator leaves the crane cab or until contact between the boom and the power line is broken. Only under extreme circumstances, such as fire, should the operator leave the equipment.

If the operator must leave the equipment, the operator must jump from the equipment and land feet together. Care must be taken to not touch any part of the crane and the ground at the same time. The operator must then shuffle his or her feet in very small steps (or bunny hop) away from the crane. After contact with a power line, the current flows outward from the point of contact through the soil in a ripple pattern. Areas of high and low potential circle the energized equipment — just like ripples in a pond after a stone hits the surface. If a person steps from an area of high potential to an area of low potential, electricity can flow through their legs, causing injury or death. The current flowing through the ground is also why other workers in the area of the energized equipment must stay away.

The Bottom Line

Contact with overhead power lines continues to be the most common cause of crane-related fatalities. Overhead power lines should be identified before any equipment arrives on site by conducting an assessment inside the work zone. If the assessment shows the crane could get closer than 20 feet for lines rated up to 350 kV, measures must be taken to prevent encroachment or electrocution.

The first consideration should be to have the power lines de-energized and visibly grounded. If this is not doable, then other safety precautions must be taken to make sure the minimum clearance distance for power lines is maintained.

For power lines less than 50 kV, the boom and all parts of high-reaching equipment must be kept at least 10 feet away. For power lines with higher voltages, the minimum clearance distance is increased.

Added safety measures can be taken to prevent contacts with overhead power lines. However, the bottom line is always this: Keep your distance!

Reproduced from the Water Well Journal, April 1, 2016.

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Calendar



July 2018

14 Members Only Baseball Outing
CANCELLED

August 2018

Watch for Biennial Convention registration

November 2018

1-2 IGWA Biennial Convention

December 2018

31 License renewal through the DNR.
End of two-year education cycle.

Visit IGWA website for most up-to-date
calendar — www.indianagroundwater.org

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