



September 2017

# IGWA Newsletter

The quarterly 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](mailto:ingroundwater@gmail.com) • Website: [www.indianagroundwater.org](http://www.indianagroundwater.org)

Indiana Ground Water Association *presents*

## WELL REHABILITATION WORKSHOP

**November 2, 2017 ~ 8:00 am to 1:30 pm**

**Valle Vista Conference Center, 755 E. Main St., Greenwood, IN 46143**

**Register by  
October 25**

### AGENDA & REGISTRATION

Approved for Continuing Education Hours: 3.0 Well Drillers + 3.0 Pump Installers

8:00 am – 9:00 am	Registration with Breakfast
9:00 am – 10:00 am	Defining the Operational Age of a Well: Predicting Maintenance Issues in Advance of Failure Presented by Michael Schneiders
10:15 am – 11:15 am	Grouting, Well Development and Well Rehab, Presented by Chad Yordy
11:30 am – 12:30 pm	Well Cleaning 101, Presented by Tim Hill
12:30 pm – 1:30 pm	Lunch ~ Annual Meeting with elections

Well driller and Pump installer testing only is 9:00 am -12:00 pm. You must register with the DNR. Do not use this form.  
If you plan to eat breakfast or lunch you must also register with this form and pay the fee.

**Member Fee: \$40.00 / Non-member Fee: \$80.00**

**Deadline for registering is October 25.**

*This must be paid for by day of event. Fees are per person. Refunds must be requested in writing no later than October 25.*

Names: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Members: \_\_\_\_\_ x \$40 per person = \$ \_\_\_\_\_

Non-Members: \_\_\_\_\_ x \$80 per person = \$ \_\_\_\_\_

Late Registration: \_\_\_\_\_ x \$100 per person = \$ \_\_\_\_\_

**TOTAL ENCLOSED = \$ \_\_\_\_\_**

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**Questions?**

**Contact IGWA at 888-443-7330 or [ingroundwater@gmail.com](mailto:ingroundwater@gmail.com)**

## ANNUAL MEETING AND ELECTION

### \*\*\* Important Information \*\*\*

Although this is an off year for our convention, the IGWA has an annual meeting. Our annual meeting this year will be November 2, 2017 held in conjunction with a three-hour education day in Greenwood, Indiana (see page 1).

Several board of director seats are open for election this year. It is important for members to attend this meeting to vote for the upcoming board seats.

Nominations are being taken for new board members. Board members must be members of the IGWA and willing to commit to four board meetings a year, committee meetings, and helping at various IGWA events. Please submit your nomination using the form to the right.

If you are nominating someone — they need to have your approval to do so, be aware of the time commitments, and be present at the November 2 meeting. There will be a board meeting immediately following the annual meeting.

## IGWA BOARD OF DIRECTORS NOMINATION FORM

If you are interested or would like to nominate someone to serve on the IGWA board of directors, please submit your nominations by October 20, 2017.

The 2017-2018 officers and board will be elected during the Annual Membership Meeting at Valle Vista Conference Center in Greenwood, Indiana on November 2, 2017.

Please request the approval of the person you nominate.

### Nominee's Information:

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone: \_\_\_\_\_

### Nominated By:

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Please send your nominations to IGWA by October 20, 2017  
via fax: 765-231-4430 or email: [ingroundwater@gmail.com](mailto:ingroundwater@gmail.com)

## 2017 OFFICERS & BOARD OF DIRECTORS

### President

Rusty McGrew (2017)  
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### Vice President

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### Treasurer

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### Secretary

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### Past President

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### Special Committee Chair

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Troy Alexander  
Alexander Services  
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[welldriller94@gmail.com](mailto:welldriller94@gmail.com)

### Manufacturer/Supplier Reps

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### Executive Director

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### Board of Directors

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Richard Mumma (2018)  
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## LETTER FROM THE PRESIDENT

Well if it's time for another newsletter from IGWA then it means that the days are getting shorter and the mornings are getting cooler. I cannot believe that this is my last newsletter. The past two years have passed by way too quickly! As I leave you with one last word from my term of President I would like to poke fun at one of the most amazing places many of us have worked...the crawl space! My dad always jokes that in order to do our job we must be half acrobat and half contortionist. This definitely applies to the crawl space. Like many of you we have been in many and they do not seem to get easier. I have dug tunnels, been face to face with dead rodents, been sopping wet, and well this list gets longer with every new experience. Often when I get in a really nasty situation within a crawl space I distract myself by making up songs about the crawl space. What follows is one of my own personal classics best sang to the tune of "The Sound of Silence" by Simon and Garfunkel. I hope you know the tune.

Hello crawl space, my old friend,  
I've come to work in you again,  
Many people think you are creepy,  
And often you can be stinky,  
But the work that must be done inside of  
you  
Pays the bills  
And hardly ever kills  
Working inside the crawl space.

With my toolbox I crawl along  
Hoping this job won't take long,  
Shining my light what do I see,  
Two beady eyes looking at me  
I have crawled way too far to turn back  
and get out  
So I just shout  
And continue in the crawl space.

And as my path travels on  
I notice something wet is on the floor  
Something is really stinking  
The sewer pipe it is leaking  
My hat fell off and I think it's in my hair  
And underwear  
As I work in the crawl space.

I reach the tank it is heavy  
It doesn't have a tank tee  
I wish I would not have drank coffee  
Because of course I now have to pee  
And now I have to crawl back to get  
what I need  
It won't be easy  
Oh the fun of the crawl space.

At last the job is done  
He says it looked like fun  
I say it's time for him to pay  
He says I really cannot today  
His wife has the checkbook  
And now he thinks that I'm a crook  
When all I did  
Was work inside his crawl space!

Well possibly I have left you with a more personal note regarding my sense of humor, but for the most part I think many of you may be able to relate to this song. I know that humor is a gamble, but if it allows just one of you a moment of relief from a stressful day then humor has done its job! Thank you so much for allowing me to serve on the Board of Directors of IGWA and I look forward to seeing you soon!

Sincerely,  
Rusty McGrew  
McGrew Well Drilling

## Biennial Convention and Trade Show

Mark your calendars now!

Our Biennial Convention and Trade show will be November 1 & 2, 2018 at the Blue Chip Casino in Michigan City. If you attended the 2016 show, you will know what a great destination it is! We had a record number of attendees in 2016. We hope 2018 will surpass that number.

If you have any suggestions for classes or speakers you would like to see, please contact Jennifer soon. We would like to offer classes that YOU, the member is interested in attending.

Contact Jennifer at the office at 888-443-4330, by fax at 765-231-4430, or by email at [ingroundwater@gmail.com](mailto:ingroundwater@gmail.com).

More information to follow in the August 2018 newsletter, our website – [indianagroundwater.org](http://indianagroundwater.org) and our Facebook page.

## New Well Ordinance Instituted

Marshall County has enacted a new well ordinance. Well drillers need to be registered with the county now. There is also a permitting process that has been instituted. Their website is <http://www.co.marshall.in.us/>. Please direct all questions to the county.





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## TALES FROM THE TRENCHES

### HOT WATER!

*Nathan Rutledge, Rutledge Well Drilling*

In the well and pump industry we hear about and personally see all types of situations where danger exists and you can not even see it. One of the most dangerous situations, can get you in the blink of an eye. What is this horrible danger?

It is HOT WATER!!!

Now I am not referring to water that is bath worthy or even scalding. I am talking about water carrying electrical current.

Water carrying electric current can be deadly and is not to be taken lightly. How many times have we dug up a water line, that was very near or in the same ditch as an electric line? How many times have you seen a well pit full of water with a faulty sump pump and a pressure switch under water? We often have to use damp and wet crawl spaces to access our equipment. Not all homes have proper wiring and lines are sometimes down. Our pump cable is typically in contact with the ground in the crawl space and there are countless other electrical elements under a house. If there is water standing in a pit, dug hole or under a house and you must get in it, I would highly advise checking it for electricity with your multi-meter. Test the water to ground and see if it has any current and if so, DO NOT ENTER. A wet confined area that you can't escape is a bad place to be if electrical current is present.

Here is my tale from the trenches. I was on a no water call during the spring wet season once and as expected the crawl was full of water and I was sure the pressure switch was under water. So I tested the water and it showed 9 volts. So I grabbed the old sump pump and pump it out. After testing the moisture on the bottom with my meter again it showed all clear so I proceeded to investigate the no water issue. When I got to the tank and service disconnect, I smelled burned wires. There were several DIY repairs made to the 230 volt line with tape and the wires burned in half. As I sat there replacing the faulty wires, I will never be able to forget that smell of burnt electrical wire while I was sitting in a puddle of water. I will never forget how lucky I was to have used precautions to ensure safety. I will never enter a wet crawl with out killing the power and testing the remaining moisture for voltage. Remember, before entering a wet space, be sure you stay out of "Hot Water"

I hope you enjoyed my tales from the trenches. Always be careful when working while standing in water where electricity is present. No matter if it is a wet crawl space, a pitless adapter with electric lines running up the side, a sump pump with bad wires or a barn hydrant with an outlet near or attached to it. **If you are in a wet situation with electricity near it, check standing water for current and turn power source off if at all possible.**

Stay out of "HOT WATER" my friends and stay safe.



## IGWA Annual Meeting and Well Rehabilitation Workshop

November 2, 2017

Valle Vista Conference Center, Greenwood, IN

*Details and registration see page 1.*

A graphic of a white rectangular note pinned to a surface with a black pushpin at the top. The note has a slightly torn bottom edge and a shadow underneath.

**Register by  
October 25**





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# GROUNDWATER WEEK IS 'INSTRUMENTAL TO YOUR SUCCESS'

David Evener, CAE, NGWA Director of Marketing & Technology

Groundwater Week 2017 is an event "instrumental to your success" in the groundwater industry. This year, Groundwater Week comes to Nashville, Tennessee, and will again feature diverse educational programming taught by leading industry experts, hundreds of exhibitors under one roof, and the opportunity to meet thousands of professionals from around the globe.

The lineup of educational opportunities is designed to make you a better driller, pump installer, hydrogeologist, or whatever your specialty may be. Groundwater Week has something for everyone, whether you need to earn continuing education for licensing or certification, want to learn new skills, or are just looking for a refresher workshop.

And, of course, there's the "can't-be-missed" exhibit hall, where you can visit with 300 exhibitors over two days. It doesn't matter if you are actively looking for new equipment or services, want to meet with a manufacturer or supplier in person, or just love to look at the big rigs, there is something for everyone.

While education and business are the main focuses of Groundwater Week, there will still be plenty of time for you to enjoy the Nashville scene and its world-renown hospitality. After you honor the best in the industry at the Keynote and Awards of Excellence Ceremony, you will be taken on a 60-minute tour through music history as John Carter Cash, the only child from the marriage of Johnny Cash and June Carter Cash, delivers a presentation filled with music and stories about his family.

You may also choose to take a field trip to some of the area's best-known venues. On the Hydrogeology of the Mammoth Cave Region tour, you will explore the surface and subsurface landscapes of this cave system, which was first discovered more than 4,000 years ago. Or, for those more interested in the glitz and glamor of the country music industry, you can choose to tour the Mansion at Fontanel, a 33,000 square-foot log cabin and former home of country music legend and hall of fame member Barbara Mandrel. In addition, Groundwater Week has secured special pricing for both the Country Music Hall of Fame and the Tennessee Titans vs. Houston Texans game.

**Don't miss out on a minute of this event.**

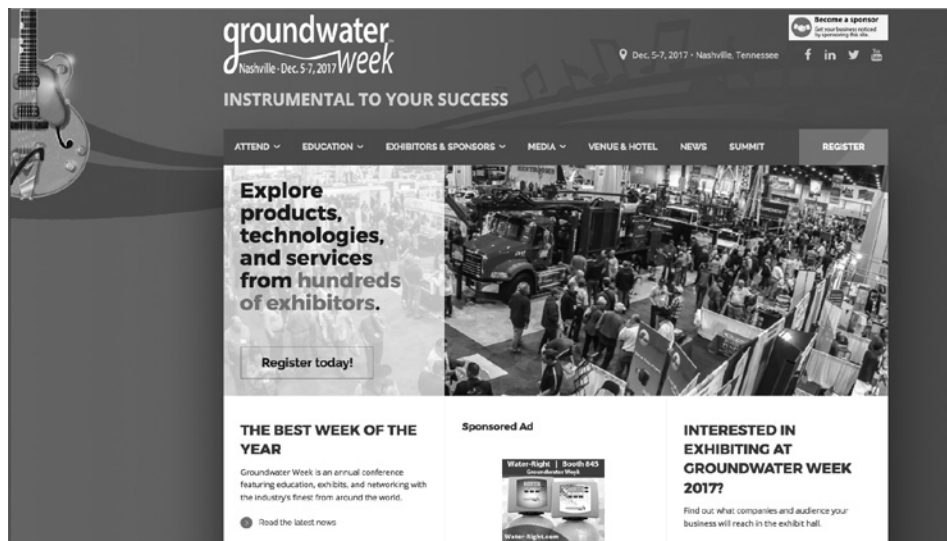
**National Groundwater Week**

**December 5-7, 2017**

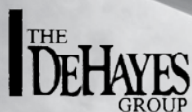
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**Register today at [groundwaterweek.com](http://groundwaterweek.com)**

*Early bird discounts end November 3!*







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# IT'S CRITICAL TO KNOW HOW ELDs MAY AFFECT YOUR BUSINESS.

By Tony Verillo, Vista Transportation Safety Consulting

The winter holidays may seem a long way away, but if you check your calendar you'll see they are less than seven months away. You should also know December is the month the new federal mandate for electronic logging devices (ELDs) takes effect as well.

Yes, December 18, 2017 is the deadline for motor carriers to equip their commercial motor vehicles (CMVs) with these devices. This law will affect nearly 3½ million drivers.

The rule is intended to help create a safe work environment for drivers and make it easier to record, accurately track, manage, and share records of duty status (RODS) data. The ELDs are designed to electronically record a driver's on-duty and driving time and are meant to replace the paper logbooks currently used by most drivers.

It's also important to note the ELD rule does not change the current hours-of-service (HOS) rules or restrictions as mandated by Federal Motor Carrier Safety Regulations (FMCSR), Part 395.

So what does all this mean to you? This article will hopefully clarify who the new rule impacts, who may be exempt, what to expect, how to implement the practice into your operations, and what it may cost you.

## Who Is Affected?

For the most part, all the regulations set forth in the FMCSR apply to any motor carrier that operates a CMV in interstate operation. The definition of a CMV is any vehicle meeting the following criteria:

- Any vehicle with a GVWR of 10,001 pounds or more
- Any vehicle carrying hazardous materials that require placarding
- Passenger vehicles designed or used to transport more than eight passengers for hire, or 15 passengers not for compensation.

Some states have a slightly different definition for a CMV if operated strictly intrastate. Carriers should review that definition within their respective states to

determine applicability. However, if your company crosses state lines at all, then the definition above applies to you, and therefore the rules apply.

Going forward, your company and each of your drivers must fully comply with HOS regulations and may very likely have to comply with the ELD mandate.

It's important to know that before moving to ELDs, it is critical to be sure your company's drivers and staff are fully compliant with the current HOS regulations and restrictions. Drivers who do not adhere to these rules will only compound the issue when you move to ELDs—as they will be creating permanent and irreversible log entries. These records will be subject to audit and pose the potential for serious fines or sanctions.

The ELD mandate provides a few exceptions from the rule. Based on these exceptions, all of the company's vehicles may be exempt or just a portion depending on the company's daily normal operations. All possible travel scenarios should be considered before deciding how your company is impacted. A summary of each exception is as follows.

1. Short-haul operations: This applies to drivers of CDL type vehicles. It limits a driver's travel to within a 100 air-mile radius of their home terminal and no more than 12 consecutive hours on duty. It also requires a driver have 10 consecutive hours off-duty prior to starting their shift. *See FMCSR 395.1(e)(2).*
2. Operators of property-carrying commercial motor vehicles not requiring a commercial driver's license: This applies to drivers of property carrying only, non-CDL vehicles. It

limits a driver's travel to within a 150 air-mile radius of their home terminal. *See FMCSR 395.1(e)(2).*

3. Drive away-tow away operation: This refers to an operation in which an empty or unladen motor vehicle with one or more sets of wheels on the surface of the roadway is being towed or transported as defined in FMCSR 390.5.
4. Trucks manufactured before the model year 2000.

Each of the first three exceptions have additional restrictions within the rule and before opting out of installing an ELD, you should become familiar with the full scope of whichever exception is being used.

Drivers who would otherwise be exempt from ELDs but who have exceeded the 100 air-mile or 150 air-mile radius more than eight days in any 30-day period must use ELDs.

Finally, any company that is currently using an automatic on-board recording device (AOBRD), or voluntarily chooses to purchase and require drivers to use an AOBRD by December 18, 2017, will be granted an additional two years to become compliant with the ELD regulations.

Just as important as knowing who is exempt, is knowing who is not exempt from the ELD mandate. These include:

- Owner operators
- Small fleets
- Passenger carriers
- Leased/rented trucks
- Mechanics

**ELDs Affect** (continues on page 12)

## Organizations Request DOT to Delay Mandate

Several organizations, including the National Ground Water Association, have requested the Department of Transportation to delay the deadline for implementation of the electronic logging device mandate. Cited were technological challenges, security concerns, and certification issues as reasons the mandate should not be enforceable by the December 18 deadline. The DOT is not able to act unilaterally in delaying implementation of the mandate, but could put pressure on Congress to initiate a delay. Look to WWJ for more information.

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## ELDs Affect *(continued from page 10)*

### Getting Started

Once it is determined ELDs will be required, businesses should take steps to manage the transition to ELDs. First and foremost, management must embrace the change as a move toward safety, reduced violations, and improved efficiency.

Hold meetings with supervisors to discuss the new requirements and what's expected. Have them assist in setting up the program from the start, including a written policy. Identify a reputable ELD provider that suits your business needs and can help you through the entire process. And most important, be sure to leave sufficient time before the deadline to get the system installed and working correctly.

After the purchase and installation, it will be necessary to provide training to drivers, mechanics, and administrative staff. Choose personnel with a solid understanding of the current HOS rules and a commitment to the new system.

Expect naysayers and critics. However, through education and management support, most of their concerns will be put to rest. It has been my experience most of the common misnomers are simply not true. For example:

- Drivers will quit if forced to use ELDs? False!
- ELDs will shut down a truck if a driver runs out of hours? False!
- Drivers must have the ability to print from ELDs at roadside? False!
- Trucks cannot be used for personal use or yard time? False!

In fact, after getting familiar with the systems, most drivers prefer the electronic systems to the written logbook. They quickly realize the ease of recording and

time-saving benefits derived from ELDs. Some drivers may prefer to use paper logs while learning the new systems as a backup to the ELDs, and this is fine as long as they are also doing electronic logs at the same time.

ELDs are linked directly to a truck's electronic control module and therefore the data gathered is directly related to vehicle motion and operation (ignition on/off, idle, speed, mileage, braking, etc.).

The ELD records changes to duty status automatically as well as based on driver inputs. For instance, at 3 miles per hour it will automatically change from on-duty status to driving if the driver fails to record the change. When a driver signs on to the unit, it automatically switches from off-duty to on-duty status. At engine shutdown, the ELD automatically switches from driving to on-duty status. It will do the same after six minutes of no vehicle motion. These are built in fail-safes to ensure true and accurate HOS recording and reporting.

What do these systems cost? Just like any electronic device, you can get models and prices across a wide spectrum. There are many different types with everything from dash-mounted models, hand-held models, and cellphone-compatible units. Manufacturers have different designs, purchase programs, and price points.

Most have a per unit purchase cost ranging from \$200 to \$1000. Most monthly service charges per unit range from a few dollars a month to \$50 depending on the plan and depth of data required for your needs.

Be sure to assess your company's operations and desired level of data reporting before making a purchase. It is also important to know any

manufacturers of ELDs are responsible for registering their ELDs and certifying they meet the technical specifications set forth in the ELD rule. ELDs must be registered with the Federal Motor Carrier Safety Administration, so be sure to check the FMCSA website at <https://3pdp.fmcsa.dot.gov/ELD/ELDLList.aspx>.

### Being Ready

In summary, safety is the bottom line and the ELD mandate does not appear to be going away. It was created to improve highway safety while accurately tracking drivers' hours. It is not a choice, but a mandate. It is critical to make sure both you and your drivers continue to comply with HOS rules.

If you believe you're exempt from the ELD mandate, be sure you can structure your business practices to legally qualify for the ELD exemptions and examine if you can consistently operate within those parameters on a daily basis. Know you must continue to record and monitor drivers' hours even if exempt.

If you find you must comply with the ELD mandate, then determine what other applications you can use the data for and how much information you may need (or want) based on the size of your business. Choose a reputable dealer based on customer satisfaction, industry input, and reliability. Ask for live demonstrations. Look for systems that are driver-friendly and easy to operate.

Either way, the holidays and the ELD mandate will be upon us before we know it. Examine the rule, review the exceptions, and make a determination for your company before time runs out.

*Reprinted from the NGWA*

### About the Author

Tony Verillo owns and operates Vista Transportation Safety Consulting, a private consulting firm dedicated to assisting the trucking and motor coach industries. Before starting his own business, Verillo served as an inspector in the Connecticut Department of Motor Vehicles for more than 20 years.

### Learn More About ELDs

Take in a free webinar presented by the author of this article. Tony Verillo presented a webinar for the National Ground Water Association titled "Legally Structuring Your Business Activities to Comply with New Electronic Logging Device Laws" and it is one you need to watch. The webinar is also listed under the "Web-Only" section. This 45-minute online presentation will provide you with a refresher on hours-of-service laws and review the new federal law regarding ELDs to help you determine best practices to ensure proper compliance.

## CALL FOR LIFETIME ACHIEVEMENT AWARD NOMINATIONS

**Nomination Deadline: October 20, 2017**

This prestigious award has been bestowed upon ground water industry professionals for many years. Many of the recipients were retired, however, that is not mandatory.

### Nominee's Information

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

Nominee's Company: \_\_\_\_\_

Nominee's Phone: \_\_\_\_\_

### Nominated by

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Please include a brief bio and reasons for nominating this individual, including their industry affiliation and contributions on an additional sheet of paper or in email. The IGWA Executive Committee will vote on the nominees.

Please send your nominations to IGWA by October 20, 2017 via fax: 765-231-4430 or email: [ingroundwater@gmail.com](mailto:ingroundwater@gmail.com)



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# HAND SAFETY BEGINS WITH THE RIGHT GLOVE

By Alexandra Walsh, Association Vision

Reprinted from the NGWA Tool Kit August 7, 2017

Protective gloves are the primary means of protecting your hands and arms when working and to eliminate the risk of injury.

According to the Occupational Safety and Health Administration, 70% of hand and arm injuries could have been prevented by proper use of gloves. The Bureau of Labor Statistics reports these injuries are expensive—the cost of the average hand injury workers' compensation claim exceeded \$6000.

In a recent study published in the Journal of Occupational and Environmental Medicine, researchers described the type, location, and severity of hand injuries among 1166 patients.

The majority of subjects (83%) had a single type of injury: 63% were lacerations, 13% were crush injuries, 8% were avulsions (skin or tissue torn away), and 6% were punctures.

Metal items such as nails, metal stock, and burrs accounted for 38% of the injuries, followed by hand tools with blades (24%) and power machinery (12%).

## Hand and Arm Protection

So, with a wide variety of hazards and injuries that can occur, selecting the right glove can be a challenge. Both the hazard and the activity affect which glove to select. Technological advances in the hand protection industry have created a multitude of glove offerings designed specifically to protect against assorted hazards.

Today, suppliers have gloves specifically designed to protect against cuts, abrasions, punctures, burns, fractures, and chemical exposures. Your needs determine which glove to select.

### What needs protection?

- Hand only
- Forearm
- Arm

### What are the grip and dexterity needs?

- Is the work in dry, wet, or oily conditions?
- Is fine dexterity needed?
- Is chemical protection needed?

### What type of chemicals are handled?

- Nature of contact (total immersion, splash)
- Duration of contact

### Is other protection necessary?

- Thermal
- Electrical
- Vibration
- Cuts and punctures
- Wear and abrasion resistance

### What are the size and comfort requirements?

## Types of Gloves

It is important employees use gloves specifically designed for the hazards and activities found on their job. Gloves designed for one activity or hazard may not adequately protect during a different activity or hazard. Fortunately, there are many types of gloves protecting against a variety of hazards.

Generally, gloves fall into four categories:

- Durable work gloves made of metal mesh, leather, or canvas
- Fabric and coated fabric gloves
- Chemical and liquid-resistant gloves
- Insulating rubber gloves.

### Metal mesh, leather, or canvas gloves

Sturdy gloves made from metal mesh, leather, or canvas provide protection from cuts, burns, and sustained heat.

### Leather gloves

- Protect against sparks, moderate heat, blows, chips, and rough objects.
- Welders in particular need the durability of higher-quality leather gloves.

### Aluminized gloves

- Provide reflective and insulating protection against heat
- Used for welding, furnace, and foundry work
- Require an insert made of synthetic materials that protect against heat and cold
- Asbestos inserts are prohibited.

### Aramid fiber gloves

- Aramid is a synthetic material protecting against heat and cold.
- Many glove manufacturers use aramid fiber to make gloves that are cut-resistant and abrasive-resistant.

### Other synthetic materials

- Several manufacturers make gloves with other synthetic fabrics that offer protection against heat and cold.
- Resistant to cuts and abrasions and may withstand some diluted acids.
- Don't stand up well against alkalis and solvents.





#### **Fabric and coated fabric gloves**

Gloves made of cotton or other fabric protect against dirt, slivers, chafing, and abrasion, but don't provide enough protection to be used with rough, sharp, or heavy materials.

- Cotton flannel gloves coated with plastic transform fabric gloves into general-purpose hand protection offering slip-resistant qualities.
- Coated fabric gloves are used for tasks ranging from handling bricks and wire rope to handling chemical containers.

- For protection against chemical exposure hazards, always check with the manufacturer to determine the gloves' effectiveness against the specific chemicals and conditions in the workplace.

#### **Chemical and liquid-resistant gloves**

- Gloves made of rubber (latex, nitrile, or butyl), plastic, or synthetic rubber-like material such as neoprene protect workers from burns, irritation, and dermatitis caused by contact with oils, greases, solvents, and other chemicals.

- Use of rubber gloves also reduces the risk of exposure to blood and other potentially infectious substances.

Employees must receive information and training to be made aware of the hazards present in their work, and to understand the correct use of personal protective equipment.



#### **About the Author**

Alexandra Walsh is vice president of Association Vision, a Washington, D.C.-area communications company. She has extensive experience in management positions with a range of organizations.

The views expressed in this column are the author's opinions based on her professional experience.



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## Calendar

### November 2017

- 2 Annual Meeting &  
Fall 2017 CEU class,  
*Well Rehabilitation Workshop*  
Greenwood, IN (see page 1 for details)



- 2 DNR testing in Greenwood, IN

### December 2017

- 5-7 National Groundwater Week  
Nashville, Tennessee  
[www.groundwaterweek.com](http://www.groundwaterweek.com)

- 31 License renewal through the DNR due

### November 2018

- 1-2 IGWA Biennial Convention
- 



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