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September - October 2021

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WOODCHIP BIOREACTOR PARTNERSHIP INSTALLS WATER QUALITY PRACTICE IN MCDONOUGH CO.

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MEMBERS' PICNIC FULL OF ACTIVITIES

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The *ILICA News* is the official publication of Illinois Land Improvement Contractors Association, Inc. at 112 Exchange St., Ste. 2, Galva, IL 61434. (309) 932-1230.

Subscription price is \$50.00/year, issued bi-monthly: Jan.-Feb.; Mar.-Apr.; May-June; July-Aug.; Sept.-Oct.; Nov.-Dec., and also includes one annual directory.

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PRESIDENT'S MESSAGE



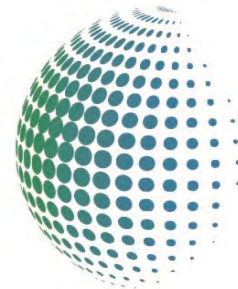
The sun rises and sets as we measure the passage of time in the days of our lives. Yes, it does sound like the introduction to a soap opera, but we do tend to think in terms of days more than any other measure of time; at least I do. Then, you check a calendar and that passage of days has become a month or season or even a year, and you sit back and think, did I miss something? What happened to last week or July or summer? Already, it is the middle of August, and I am feeling that. However, all is not lost. Just last week, we finished the Hunt tube and riser and woodchip bioreactor project near Blandinsville. Thanks to everyone that helped out so that we completed it in a timely manner, despite rain, mud, and a steady diet of Subway sandwiches. Some names to highlight include show committee chairs, Brian Brooks and Jon Seevers, for their start to finish efforts. Thanks also to local contractor Grant Curtis for his efforts and equipment and for the efforts of K.T. Woodford, Shawn Stigall, Eric Layden, Tom Beyers, Joe Streitmatter, Wayne Litwiller, Bill Dean, and Wes Litwiller. All pitched in to do whatever was needed. And special thanks to those guys that jumped in the trench with me in the mud, heat, and sun to put that pipe together; oh to still be young. Thanks to Martin Equipment and Sunbelt Rentals for the machines we had, Springfield Plastics for tile needed, Agri Drain for the structures, Bradford Supply for the solid pipe, Xylem for the woodchips, and anyone else that helped or donated to this project.

It is projects like this that are one of the major values of a trade association such as ours. Somewhere, sometime, I once read a quote from Teddy Roosevelt, the non-socialist Roosevelt president, that said something along the lines of this: If you own a business and don't belong to a trade association of that business, you are an idiot. Kind of harsh but a reality. While doing projects like this is not the major aim of our association, they are one of the best education and learning forums you can find, especially when it rains; the work stops for awhile, we gather in Brooks' trailer, and the ensuing conversations reveal a wealth of knowledge, insight, ignorance, and some

good old good natured ribbing. You want to feel a part of the group and get to know others? Just come to one of these show projects. I often think we hope it rains so we have more time to just talk about work, life, and the problems caused by politicians. We have one more project to do this year at the Farm Progress show with another tiling demonstration so we hope you can attend to help out for a day or two. Also, by the time you have read this, we will have had our picnic and members' meeting at the home of past president Dave and Lori Kennedy. Should be a good time; hope you made it there.

Back to the measure of time, it goes on with or without us. Without us, we live in the past existing on memories of what used to be, wondering why the world has changed so much, fighting the changes, and feeling beaten down and depressed from it. Or we can move with it, excited by the rising of the sun once again and the opportunity the new day brings. Tomorrow, all I know is, it will bring me deeper down into what may be a quagmire of muck and decay...No, no, not that. I am digging a pond in something of a peat bog and looking forward to the challenge of doing it well and quickly to the satisfaction of the customer and his desired level of cost. That is why I enjoy this work. Each job is at least a little different or unique, and it inspires the creativity in me. Time, do you move with it or battle its passing?

Sincerely,
Steve Anderson



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2021 BOARD MEMBER MTG. ATTENDANCE

A = absent		P = present		C = cancelled meeting		
Area / Director	Feb	Mar	May	Aug	Sep	Nov
Pres: Steve Anderson	P	C	P	P		
VP: Eric Layden	P	C	P	P		
1st VP: Jon Seevers	P	C	P	P		
Area 1 - Brian Brooks	P	C	P	P		
Area 2 - Stuart Anderson	P	C	P	A		
Area 2 - John Andermann	P	C	P	A		
Area 3 - Wes Litwiller	P	C	A	A		
Area 3 - Grant Curtis	P	C	A	P		
Area 4 - David Kennedy	P	C	P	P		
Area 4 - Lee Bunting	P	C	P	A		
Area 5 - Cole Brownfield	P	C	A	A		
Area 6 - Scott Day	P	C	P	A		
Area 6 - Bill Dean	P	C	P	P		
Area 7 - John Barttelbort	P	C	A	A		
Area 8 - Tom Beyers	P	C	P	P		
Associate Dir: D. Randolph	P	C	A	P		

BOARD & MEMBERS' MEETING SCHEDULE

Unless changed by the Board during the year, the ILICA business meetings are scheduled as follows:

Sept. 18, 2021 - Regular Meeting of the Board:
 Virtual & In-Person, Galva

Nov. 6, 2021 - Regular Meeting of the Board:
 Virtual & In-Person, TBD

Exact location, meeting times & other details will be published in the ILICA News and sent to members via mail and/or email.



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FALL Virtual Septic Training

Sept. 28th, 8-11:30 AM

Chase Environmental Services and Illinois LICA are pleased to announce that they will be partnering to host a virtual training that will offer 3 CEU's required for the renewal of Illinois Septic Licenses (Installer, Pumper, and Sanitation Technician)!

****Limited to the first 100 registrants****

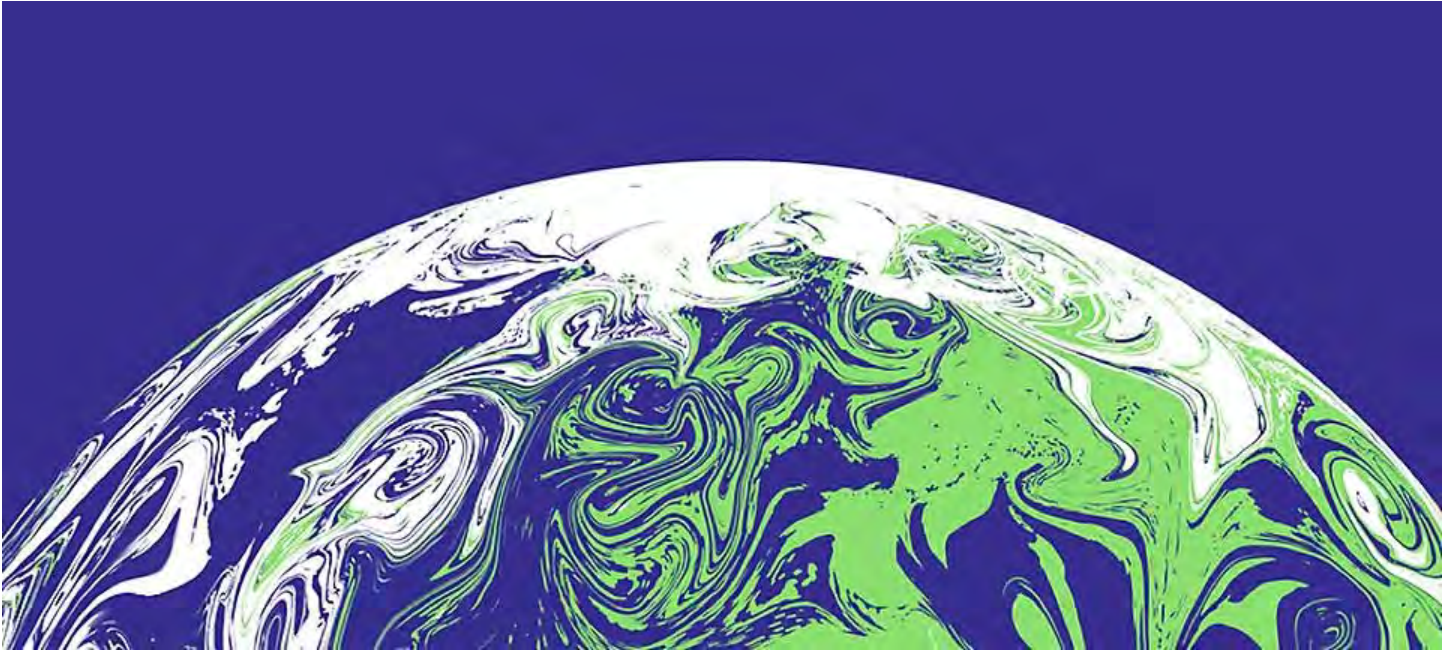
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1 License Training: \$75
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 3 License Training: \$135

3% convenience fee applies

Register

UN REPORT SIGNALS CLIMATE CHANGE WARNINGS



Climate change was one of a number of legislative priority issues discussed at the recent National LICA Legislative Committee meeting. Infrastructure and budget reconciliation bills include numerous provisions to reduce carbon emissions. A new report from the UN's Intergovernmental Panel on Climate Change warns time is growing short to address global climate change, whose impacts are being seen in more extreme weather events such as drought and heavier precipitation, and changes to agricultural practices could take decades to have an impact on carbon emissions.

The report "is a code red for humanity," the United Nations panel said. "The alarm bells are deafening and the evidence is irrefutable: greenhouse gas emissions are choking our planet & placing billions of people in danger."

The report says that carbon dioxide levels in 2019 were the highest in the last 2 million years. Increases in carbon dioxide have a mixed impact on crops; high carbon dioxide levels can spur plant growth, but they also trap more heat, which can reduce yields. Humans are almost undeniably the cause, the report says. "Eight years ago we weren't completely sure whether some of the extreme events we're seeing were due to human-caused climate change," said Jessica Tierney, an associate professor of geosciences at the University of Arizona and a co-author of the report. "Now we're pretty sure that that is the case."

Examples of the impacts may include "the extreme heat waves that we're seeing around North America right now," she said in comments on the report collected by the American Association for the Advancement of Science. "This new report says that those heat waves were unlikely to occur without human climate change."

"The report provides new estimates of the chances of crossing the global warming level of 1.5°C in the next decades, and finds that unless there are immediate, rapid and large-scale reductions in greenhouse gas emissions, limiting warming to close to 1.5°C or even 2°C will be beyond reach," the IPCC said in a news release.

"The report projects that in the coming decades climate changes will increase in all regions," the IPCC said. "For 1.5°C of global warming, there will be increasing heat waves, longer warm seasons and shorter cold seasons. At 2°C of global warming, heat extremes would more often reach critical tolerance thresholds for agriculture and health."

Changes in agricultural practices can begin to sequester some of the carbon released by agriculture over millennia, the report says, but such changes could take decades or longer to have an impact.

"Removing more CO₂ from the atmosphere than is emitted into it would indeed begin to reverse some aspects of climate change, but some changes would still continue in their current direction for decades to millennia," the report says.

It cites crop rotation, an increase in the amount of crop residues, use of cover crops, "optimization of grazing" and no-till or low tillage as among those beneficial practices. "With medium confidence, methods which seek soil carbon sequestration will diminish [nitrous oxide] emissions and nutrient leaching, and improve soil fertility and biological activity," the report says.

Source: <https://www.licanational.com/un-report-signals-climate-change-warnings/#more-5039>

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See Rick's story at ads-pipe.com/stories.



ILICA Ladies Page

Any time of year is the perfect time to boost your immune system, but fall is an especially good time. If you have children or grandchildren fall means 'back to school' and unfortunately back to exposure to bacteria and viruses. It is a time when you want a healthy immune system to ward off infection and disease. Here are some tips to boost your immune system not only for fall and winter, but throughout the year.

Eat a diet rich in fruits and veggies

Fruits and vegetables are loaded with antioxidants. Blueberries, kiwi, oranges, red bell pepper, broccoli, sweet potatoes and spinach are especially good at supporting and boosting immune function. Organic produce is higher in nutrients and lower in toxins so choose that whenever you can. Including an abundance of fresh veggies and fruits in your diet will help your immune system get ready to handle the fall and winter colds and flu.

Exercise regularly

Exercise releases endorphins, our happy chemicals, which lower cortisol levels. Cortisol is your stress hormone and it lowers immune system function. Lifting weights and strength training has been shown to increase production of very important immune cells called T-killer cells. These T-killer cells are our first line of defense in warding off cold and flu viruses. Exercise also improves your quality of sleep which will further improve your immune system function. Add physical activity and strength training into your daily routine for a year-round strong and healthy immune system.

Get enough sleep

During sleep your body heals and rejuvenates. Inadequate sleep will decrease immune function over time. Lack of sleep increases your stress hormone cortisol which will in turn further lower your immune system function. Adults need six to nine hours of good quality sleep. Children and teens require nine to 12 hours of good quality sleep. To ensure a better rest turn off your electronics 30 minutes or more before hitting the pillow. Take a walk or do some light exercise after supper, but

at least two hours before your bedtime routine. Avoid snacking and alcohol after your evening meal for a more blissful sleep.

Avoid smoking

Smoking not only causes cancer, but it weakens your immune system making you more susceptible to colds, flu and other infections. Vaping is being marketed to teens and young adults as a 'safer' alternative to smoking but has a similar effect to smoking cigarettes so avoid vaping as well.

Avoid alcohol or drink in moderation

Alcohol is converted to sugar which increases cortisol levels lowering your immune function. When you consume alcohol in the evening it will interfere with your REM sleep cycles affecting the quality of your sleep. Lack of good quality sleep will

raise cortisol levels further diminishing your immune function. If you enjoy wine or a cocktail with dinner, then limit your consumption to one drink which has been shown to have a minimal effect on sleep quality.

Control stress

Stress causes the release of your stress hormone cortisol. Cortisol decreases lymphocyte production, your first line of defense from bacteria and viruses. Stress is everywhere, but you can work at controlling it. Exercise as mentioned earlier is an excellent combatant to stress. When your body is under stress, so is your immune system.

Your fall and winter do not have to be plagued with illness. Use these strategies to not only avoid common

stressors to your immune system, but also boost your immunity and stay healthy all year long.

Dr. Wendy Henrichs is a board certified chiropractor and nutrition counselor at Timber Land Chiropractic in Rhinelander. For a complimentary chiropractic, nutrition or lifestyle counseling consultation, visit TimberlandChiropractic.com, Facebook, or call 715-362-4852.



Six immune-boosting strategies: Plan ahead to avoid health pitfalls in fall, winter

Source: Reprinted with permission from Northwoods Star Journal.

Author Dr. Wendy Henrichs: <https://starjournalnow.com/2019/09/06/six-immune-boosting-strategies-plan-ahead-to-avoid-health-pitfalls-in-fall-winter/>

NATIONAL LICA MEETS IN NIAGARA FALLS

Holding the title for the largest waterfall (by volume) in North America, Niagara Falls served as the perfect meeting destination for National LICA's 2021 Summer Meeting in July. Few sights are more impressive and powerful than that of Niagara Falls' 188 feet of cascading water flowing at a peak rate of roughly 225,000 cubic feet per second...but seeing fellow LICA contractors, family, friends, and Associates meeting and interacting again for the first time in a year and a half is definitely a close second!

Generally, the event was very well attended giving its postponement from 2020 and ongoing COVID-19 impacts across the nation. While the staples of the event remained, including tours, education sessions, Associates' Night, and business meetings, the air about the event seemed more grateful, more focused...changed. Some of this renewed energy can be attributed to the announcement of some new pending programs, benefits, and efforts to keep LICA out in front. All of these specific details and the committee reports from the event may

be found on National LICA's website at: <https://www.licanational.com/meeting-minutes/>

The beauty of Niagara Falls lies in the power of nature that transformed her landscape over the years. A fitting Summer Meeting backdrop for LICA, whose power lies in the resiliency and steadfastness of its membership. Membership whose collective capabilities destined the Association for impressive changes to come...making it an exciting time to be a LICA member!





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WOODCHIP BIOREACTOR PARTNERSHIP INSTALLS WATER QUALITY PRACTICE IN McDONOUGH CO.

True to form, the Woodchip Bioreactor Partnership completed installation of its fourth woodchip bioreactor, since its inception in 2017, on August 14 in McDonough County on the Hunt Farm. Over two years in the making, the practice implementation was plagued with delays and price increases caused by mother nature, COVID 19, and additional onsite resource concerns.

In early 2019, Illinois LICA, in partnership with Illinois Farm Bureau, Illinois Natural Resources Conservation Service (NRCS), and the University of Illinois College of Aces, began exploring potential woodchip bioreactor sites on the Hunt Farm. As is often the case, one of the producer's preferred practice locations was in a field that already had a portion of non-cropped acreage that required some general maintenance. The area contained what appeared to be an old, silted in pond with a failed overflow structure and numerous subsurface drainage outlets upstream. While feasible in terms of the contributing subsurface drainage area, installing a woodchip bioreactor upstream of the pond and the rusted-out overflow pipe, which provided erosion control for decades for the nearly 10 feet of overfall, would certainly prove to be an unwise investment in a very short period of time. Additionally, given the watershed topography and the location of multiple "day-lighted" tile outlets into the pond, it became clear that only a grade stabilization type structure could feasibly be utilized to replace the failed pond, and woodchip bioreactors are primarily subsurface drainage practices by design.

Many conference calls and discussions later, the Hunt family and the Woodchip Bioreactor Partnership ultimately settled in on said site under the condition that the failed pond and subsequent resource concern would be addressed prior to a woodchip bioreactor installation upstream to ensure a stable outlet downstream of the practice. After exploring a number of possible practice options with the landowners, the local NRCS staff immediately went to work on designing a large tube & riser pipe drop structure (36" & 48" diameter, respectively) with a 15' x 60' woodchip bioreactor upstream for the land-

owner and partners. From there, timelines were established between all parties in hopes of completing the edge of field practice installation in the fall of 2019 after the pond removal and the tube & riser installation by the landowners.

Poor site working conditions, weather, and COVID-impacted schedules hindered the tube & riser construction efforts into 2020, though initial progress was made in draining the pond and improving the overall site conditions for construction by the landowners. Ultimately, as the construction efforts stretched on into late 2020 in preparation for the woodchip bioreactor partnership installation, Illinois LICA approached the partners and landowners about completing the entirety of the remaining project (i.e. tube & riser + bioreactor) in summer of 2021. In March 2021, amidst ever-increasing material prices, a collective agreement was reached with all parties re-

garding Illinois LICA's proposal and project pricing.

On August 9, the Association broke ground on the project with the help of its Associate members and a core group of volunteer contractors. Through heat advisories and a few rain delays, Illinois LICA was able to wrap up both practice installations by the following Saturday, August 14. Due to the extended project delays and already full field day calendars for 2021, the



Woodchip Bioreactor Partnership did not host an open-to-the-public event during construction but will instead be scheduling a field day in 2022 to highlight the edge of field practice and preliminary research on the site.

Illinois LICA would like to thank the dedication and hard work of all those that guided this extended project to completion including the Woodchip Bioreactor Partnership, the Hunt Family, Grant Curtis, K.T. Woodford, Shawn Stigall, Brian Brooks & Crew, Jon Seevers, Joe Streitmatter, Steve Anderson, Eric Layden, Tom Beyers, Bill Dean & Crew, Wayne Litwiller, and Wes Litwiller. We would also like to thank our Associate members that supported us and our partners with equipment and materials including Agri Drain Corp., Xylem, Sunbelt Rentals, Martin Equipment, Bradford Supply Co., and Springfield Plastics.

WOODCHIP BIOREACTOR PARTNERSHIP INSTALLS WATER QUALITY PRACTICE IN McDONOUGH CO.

(CONT.)



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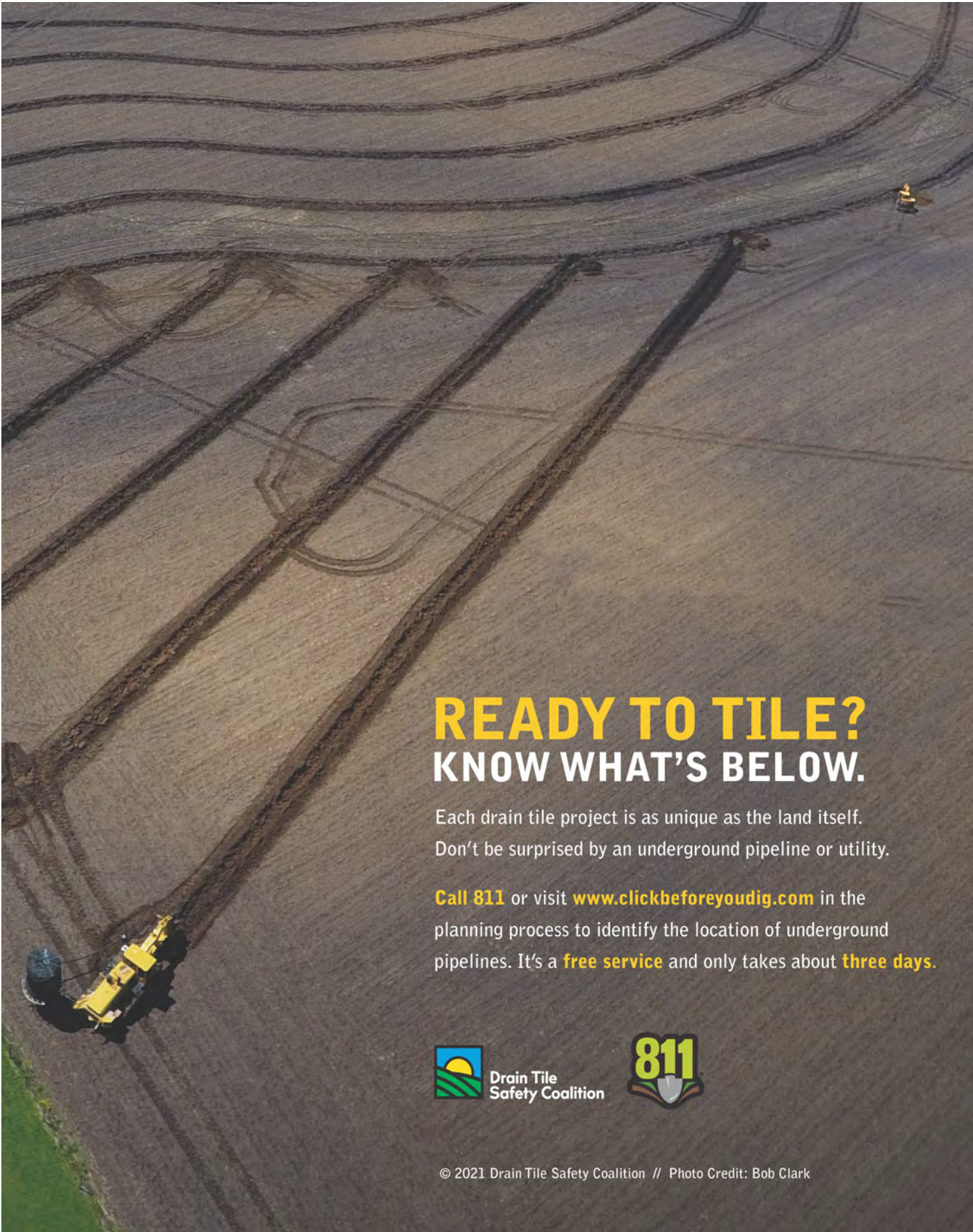
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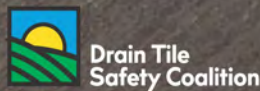
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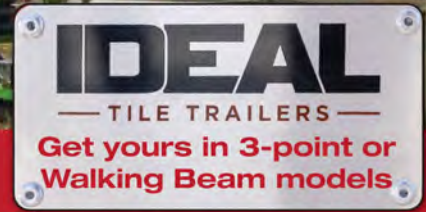


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MEMBERS' PICNIC FULL OF ACTIVITIES

Whether you came for the food, the games, the crafts, or just for the fellowship, Illinois LICA's Summer Picnic & Members' Meeting had you covered! Hosted by David & Lori Kennedy (on their 39th wedding anniversary to boot!), the daylong event was full of entertaining and relaxing activities for all.

During the members' meeting in the morning, the ladies had the opportunity to purchase various home goods from three onsite vendors, as well as craft wreaths and other home décor. After the members' meeting, all partook in a delicious catered meal from Longhorn Smokehouse before saddling up in UTVs to tour a local constructed wetland just down the road. The afternoon wrapped up with dessert, including homemade ice cream and wedding anniversary cake, and games!

Regardless of their main reason for attending the event, members were thrilled to see each other and just hang out for the first time in a long time since the start of the pandemic. A big thank you to David and Lori Kennedy for being gracious hosts of the event and for working closely with the Picnic Committee (especially Jon & Veronica Seevers) to structure such a diverse day of fun activities and fellowship. Thank you to our wetland tour guide, Adam Wyant and his family. Thank you also to our event sponsors and door prize donors including Springfield Plastics, Martin Equipment of Illinois, Bower's Great Lakes Inter-Drain, Prins Insurance, United Fire Group, and Schlatter's Inc.



MEMBERS' PICNIC FULL OF ACTIVITIES (CONT.)



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CALENDAR OF EVENTS

Illinois

Board of Directors Meeting (hybrid) September 18, 2021

Committee meetings: 10 am - 2 pm
Board Meeting: 2 pm

In-person:

ILICA Office
112 Exchange St., Ste. 2,
Galva, IL 61434

Virtual:

<https://us02web.zoom.us/j/9759547353?pwd=c1ZPcjFhSTBTYjhXeERNZnFRTXdOZz09>

Or call: 1-312-626-6799
Meeting ID: 975 954 7353
Passcode: 0000

Chase Environmental Svcs. & Illinois LICA Virtual Septic Training (Series) September 28, 2021

8 - 11:30 am

Register via QR code on page 5:

<https://form.jotform.com/210405973758159>

Chase Environmental Svcs. & Illinois LICA Virtual Septic Training (Series) October 19, 2021

8 - 11:30 am

Registration opens 9/29/21:

<https://www.illica.net/events>

National

2022 National LICA Winter Convention February 15-19, 2022 San Antonio, TX

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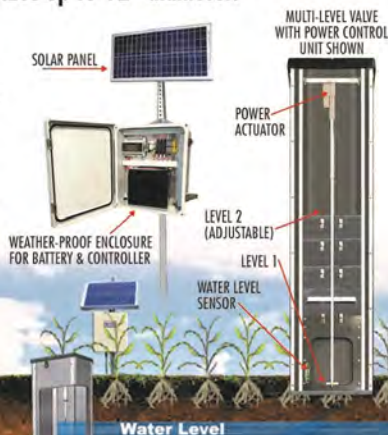
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US Patent No. 6,715,508 B2
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Canadian Patent No. 2,403,456
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SAFETY FEATURE: USE THE CORRECT LIFT

Lifting objects is more complicated than you may think. In fact, there are various techniques to account for the weight and size of the load, the distance of the move and your capacity to hold the load.

Lifting Techniques

- **Diagonal Lift:** Straddle the object with one foot ahead of the other. Lower your body by bending your knees and hips. Firmly grasp the load, bring it close to your body and straighten up, headfirst.
- **Power Lift:** Stand almost over the object in a semi-squat position with your feet out wide, one in front of the other. Grasp the object and begin the lift with your head before straightening out your entire body and then pulling the object to your waist.
- **Tripod Lift:** Place one foot at the edge of the object and kneel down on the other knee. Then, grasp the object and lift or roll the object onto your thigh. Keeping your back straight, use both legs to stand up while cradling the load.
- **Golfer's Lift:** Place one hand on a supportive surface. Then, bend at the hip and raise one leg behind you. Look up while grabbing the load and then push yourself back up with the hand resting on the supportive surface.
- **Deep Lift:** Stand in front of the object with your feet shoulder-width apart. Squat to the floor and grasp the load in close to your body. Use your legs to raise yourself up.
- **Partial Squat Lift:** Stand with your feet shoulder-width apart with one foot in front of the other. Place one hand on your thigh and then bend your hips and knees into a partial squat position. Pull the object close to you and push up with your supported hand to stand up.
- **Straight Leg Lift:** Stand close to the load with your knees slightly bent and resting against the surface you're lifting from. Bend your hips and grasp the object. Lift by extending your hips while maintaining the curve in your spine.



Discussion Date: _____

Employee Participants

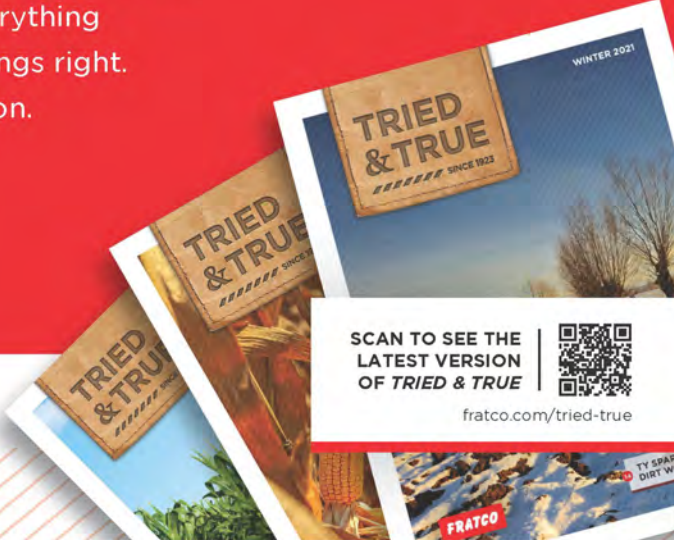


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