

# ILICA



# NEWS

## Land Improvement Contractors Of America · Illinois Chapter

### January - February 2017

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## 2017 ILICA CONVENTION & MEMBER MEETING JANUARY 12-14, 2017

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## OSHA 10HR & FORKLIFT CERTIFICATION WORKSHOP FEBRUARY 2-3, 2017

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## 2017 WINTER NATIONAL LICA CONVENTION MARCH 4-6, 2017

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Illinois LICA  
P.O. Box 474  
Brimfield, IL 61517

### Upcoming Events:

#### 2017 ILICA Convention & Member Meeting

Embassy Suites: East Peoria  
January 12-14, 2017

#### OSHA 10 Hour & Forklift Certification Workshop

Altorfer, Inc.: Springfield  
February 2-3, 2017

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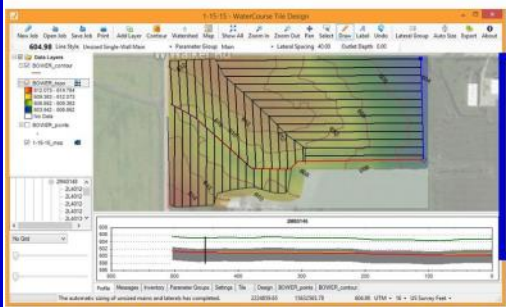
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## PRESIDENT'S LAST MESSAGE

As I approach the final months of my term as president, I reviewed my first newsletter report. In that report, I stated that ILICA at that time was beginning negotiations with the Wetland's Initiative and the Illinois Corn Growers about construction projects demonstrating efforts to assist with the Illinois Nutrient Loss Reduction Strategy. I have previously reported that ILICA has successfully completed two constructed wetlands in Bureau County and one of the Corn Growers' Research Farms in Macon County. These two projects are truly examples of what this organization has to contribute to this National effort to clean up the public waters. ILICA members sitting in the operator seats and working in the trenches was the hands-on portion, but our Associates certainly contributed toward these successes. Thank You to all that were a part of these projects.

I also reported as a parting comment that we Illinoisans would soon see what our new governor had in store for the state. I just this morning after Church visited with our local State Representative, John Cavaletto and his wife Connie, having breakfast at one of the local restaurants. It is difficult to see much positive progress in the last two years toward solving the State's issues.

On the National level, we Americans have spoken with our right to vote. John Peterson is keeping many of us current on the latest developments of the Trump Transition Team. We certainly will see changes. It reminds me of the old saying, "be careful what you ask for, you might get it." We shall see what happens.

It has been about a year since the organization was in search of a new Executive Director. We certainly appreciate all that Janet Doubet did for ILICA for the past decade. Our membership numbers grew from less than 100 to about 230. Janet and her best friend and husband Bill did a great job for the organization during that time. Thank You Janet and Bill, we all appreciate everything you do for ILICA.

Ryan Arch stepped in at last January's convention and I feel he hit the ground running. Again, Janet helped Ryan with some suggestions about how things had happened and how he might handle some issues. Ryan's first big project was the Wetland construction project in late August at Bureau County. Everything went smooth and certainly Ryan did his part. A couple weeks later, we were at the Blue Mound tiling project for Illinois Corn Growers and again Ryan and the show committee had things lined up, and it went smooth with no catches. I think Ryan is glad to be a part of this organization, likes his job and will be a real asset to help get ILICA to the next level. Good job Ryan.

Now a few thoughts about what ILICA might have to look forward to in the future. We are being approached by several ag and environmental organizations to assist with additional projects to demonstrate BMPs for the Nutrient Reduction Strategy. It is up to the membership and the board, but I think we should attempt to accommodate as many of these proposals as possible. Most of these projects involve BMPs for the reduction of Nitrates from field tile. The Certification Committee is considering ways to improve on the certification program to include some of the new BMPs that have developed during the last few years. We would like to step up the credibility of the ILICA Certified Status. The National LICA

*Cont. pg. 5*



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## PRESIDENT'S MESSAGE (CONT.)

has developed a septic system warranty program that will be a LICA exclusive. ILICA has been chosen to be a part of the pilot program. This program will be rolled out at our Annual Convention in January. Some of us directors think this program has real potential to be a great program for the Illinois rural housing industry.

I want to take this opportunity to Thank all the membership and the directors for entrusting me with the gavel for ILICA for the past two years. It truly was a privilege to help out and represent this great organization and all the great people who are a part of this organization. Thank You. I certainly hope to be close by to watch this group grow and prosper.

Tom Beyers, President

### NEW MEMBERS

#### Active Contractors

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#### Associate Members

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### 2017 Board & Member Meeting Schedule

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

- January 13, 2017** - Winter Convention and Member Mtg.:  
Embassy Suites, East Peoria
- March 11, 2017** - Regular Meeting of the Board:  
Jubilee Café, Kickapoo
- May 13, 2017** - Regular Meeting of the Board: TBD

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

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### 2016 Board Member Meeting Attendance

	A = absent		P = present			C = cancelled meeting	
Area / Director	Jan	Mar	May	Jun	Sep	Nov	
<b>Pres:</b> Tom Beyers	P	P	P	P	P	P	
<b>VP:</b> Lee Bunting	P	A	P	P	P	P	
<b>1st VP:</b> Grant Curtis	P	P	P	P	P	P	
Area 1 - Brian Brooks	P	P	P	P	P	P	
Area 2 - Steve Anderson	P	P	P	P	P	P	
Area 2 - Stuart Anderson	P	P	P	P	A	A	
Area 3 - Mike Yordy	P	A	A	A	A	A	
Area 3 - Joe Streitmatter	P	P	P	P	A	A	
Area 4 - David Kennedy	P	P	A	P	P	P	
Area 4 - John McCoy	P	A	P	P	A	P	
Area 5 - Vacant							
Area 6 - Jon Seevers	P	P	P	P	P	A	
Area 7 - Vacant							
Area 8 - Norm Kocher	P	A	P	P	A	A	
Associate Dir: Brad Baker	P	P	A	A	A	P	



United States Department of Agriculture

## USDA ANNOUNCES NEW CONSERVATION OPPORTUNITIES TO IMPROVE WATER QUALITY AND RESTORE WILDLIFE HABITAT

DES MOINES, Iowa, Dec. 7, 2016 – Agriculture Secretary Tom Vilsack today announced that the U.S. Department of Agriculture (USDA) will offer farmers and ranchers more opportunities to participate in the Conservation Reserve Program (CRP). The announcement includes new CRP practices to protect water quality and adds an additional 1.1 million acres targeted to benefit wildlife, pollinators and wetlands.

"The Conservation Reserve Program is an extremely popular voluntary program that offers producers and landowners a wide variety of opportunities to prevent erosion, protect wildlife habitat and reduce nutrient runoff," said Vilsack. "With the program close to the legal enrollment limit of 24 million acres, USDA has been working to use all of the tools at our disposal to maximize benefits by combining multiple soil, water and wildlife objectives in the areas where it is needed most."

Vilsack unveiled a new conservation initiative known as Clean Lakes, Estuaries and Rivers (CLEAR), which will add new tools to CRP that can help to improve water quality. CLEAR will assist landowners with the cost of building bioreactors and saturated buffers that filter nitrates and other nutrients from tile-drained cropland. Early estimates indicate that CLEAR could help to reduce nitrate runoff by as much as 40 percent over traditional conservation methods. CLEAR may cover up to 90 percent of the cost to install these new practices through incentives and cost-share. These new methods are especially important in areas where traditional buffers have not been enough to prevent nutrients from reaching bodies of water.

USDA will also add an additional 1.1 million acres to a number of key CRP practices that are critically important to wildlife and conservation. These include 700,000 acres for State Acres for Wildlife Enhancement (SAFE) efforts, which restore high-priority wildlife habitat tailored to a specific state's needs. In addition to SAFE, 300,000 acres will be added to target wetlands restoration that are nature's water filters and 100,000 acres for pollinator habitat that support 30 percent of agricultural production.

The continued strong demand for CRP combined with the limited acreage available for enrollment and lower land rental rates, allows USDA to modify certain program components without affecting the integrity of the program. Signing incentives are being reduced by \$25 per acre on certain practices for fiscal year 2018 enrollments (incentives are currently between \$100 and \$150 per acre) and a cap on the maximum soil rental rate is being instituted for Continuous CRP at \$300 per acre. The savings from these changes are being reinvested back in CRP, including the additional acres for SAFE, pollina-

tor habitat and wetlands restoration.

To learn more about FSA's conservation programs, visit [www.fsa.usda.gov/conservation](http://www.fsa.usda.gov/conservation) or contact your local FSA office. To find your local FSA office, visit <http://offices.usda.gov>.

Throughout the Obama Administration, USDA has generated thousands of critical partnerships to conserve and protect our natural resources on working landscapes, while enrolling a record number of acres in conservation programs. Seventy-percent of the nation's land is owned and tended to privately, and America's farmers, ranchers and landowners have willingly stepped up to address the growing impacts of a changing climate. With USDA's support, they are working to implement voluntary practices that improve air and water quality, prevent soil erosion and create and protect wildlife habitat. Since 2009, USDA has invested more than \$29 billion to help producers make conservation improvements, working with as many as 500,000 farmers, ranchers and landowners to protect land and water on over 400 million acres nationwide. Read more about USDA's record conservation outcomes under this Caring for our Land, Air and Water: Preserving Precious Natural Resources for Tomorrow.

Source:

<http://www.usda.gov/nps/portal/usda/usdahome?contentidonly=true&contentid=2016/12/0257.xml>

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Register online at [www.ccsxcd.com](http://www.ccsxcd.com)--with just a click on the website! Your \$20 fee includes lunch. CCA credits applied for--watch the website! This 4th annual event is coordinated by Illinois Department of Agriculture, Illinois NRCS, American Farmland Trust, Illinois Stewardship Alliance, IL Corn Growers Association, and local Soil and Water Conservation Districts. Don't miss the meeting near you. Get registered!

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# ILICA Ladies Page

Summer fun gives way to wintry winds and before you realize it you've got dry skin - chapped lips, itchy elbows, or a T-zone crying out for help!

Have no fear, these simple winter skin care tips can help you prevent - and treat - dry, chapped skin. And keep you smiling, all season long.

## Winter Skin Care Tip 1: *Shorten Those Showers*

Long, steamy showers may soothe a weekend warrior's sore muscles, but they're also good at dehydrating you - yes, taking moisture out instead of putting it in. That's because hot water removes the skin's natural oils more quickly than warm or cold water.

The skin care solution? Take shorter showers and baths and use warm water instead of steamy hot. Then, when you're done, pat dry, don't rub.

## Winter Skin Care Tip 2: *Mild Soaps*

Your favorite antibacterial or deodorant soap may be doing you more harm than good, stripping your skin of essential oils. That's why skin care pros recommend sticking with mild soaps, preferably unscented or lightly scented.

You may want to go mild with your laundry detergent, too. Designed to remove dirt and oils, residue just may irritate sensitive, chapped skin.

## Winter Skin Care Tip 3: *Moisturize*

A great way to soothe or prevent chapped skin: moisturize. And you don't need expensive elixirs from the cosmetics counter to keep skin dewy.

Petroleum jelly, mineral oil, even hair conditioner can help you trap in moisture as you step from the shower or bath. If your skin is oily you still need to moisturize -- just look for noncomedogenic products, which won't clog your pores. And remember to drink up -- moisturizing from the inside out.

## Winter Skin Care Tip 4: *Get Sharp About Shaving*

Shaving can leave your skin extra irritated, especially when it's already dry. So get sharp about shaving by:

- Use a lubricant when you shave, such as shaving cream.
- Change the blades in your shaver often.
- Shave in the direction that hair grows.



## Winter Skin Care Tip 5: *Slather on Sunscreen*

Up to 80% of the sun's rays can penetrate light clouds, snow, and fog. Over time that exposure can lead to moles, wrinkles, and skin cancers.

So protect your skin: Even on cloudy or overcast days slap on that sunscreen.

# Winter Skin Care: 6 Tips for Dry, Chapped Skin

Reach for a sunscreen with a sun protection

factor (SPF) of at least 15, with UVA and UVB protection. And don't forget to reapply often.

## Winter Skin Care Tip 6: *Soothing Chapped Lips*

Lips don't have oil glands, so they can dry out especially easily. Give your lips the love they need with these suggestions from the American Academy of Dermatology:

- *Don't lick.* The cycle of wetting and drying that occurs when you lick your lips quickly causes them to chap.
- *Cover up.* On cold or windy days protect your kisser behind a scarf.
- *Boost moisture.* Keep the air in your house moist with a humidifier.
- *Lip balm.* Sun exposure can make chapped lips even worse, so spread on plenty of lip balm with a sunscreen of SPF 15 or more in it.

These quick skin care tips should help keep your skin happy all winter long. But if you find you still have dry skin, or your skin gets worse, give a dermatologist a call.



# SPRINGFIELD PLASTICS' 3RD ANNUAL DRAIN FOR THE CURE RESULTS IN \$54,000 DONATION TO SIMMONS CANCER INSTITUTE

SPRINGFIELD, IL (November 14, 2016) - Springfield Plastics launched it's 3rd Annual Drain for the Cure campaign in October and is excited to announce it has resulted in a donation of \$54,000 for the Simmons Cancer Institute at Southern Illinois University in Springfield. The Drain for the Cure campaign started in 2014 in an effort to raise money for cancer research. They were able to donate a total of \$22,665 in 2014 and \$35,850 in 2015. 2016's total of \$54,000 far surpassed expectations!

Unfortunate circumstances in which employees, customers, family and friends of Springfield Plastics were affected by cancer inspired Springfield Plastics to start the Drain for the Cure campaign. Steve Baker, President of Springfield Plastics, stated, "We could never have imagined that we would reach the total we did this year. It is with utmost gratitude that we thank all those who contributed. We are honored to be part of such an outstanding community that has come together to support this deserving cause."

The Simmons Cancer Institute serves cancer patients by addressing their present and future cancer care needs through medical education, biomedical research, patient care and community service.



*Pictured from left to right: Kris Castleman, Steve Baker, Dr. Aziz Khan, Jennifer Furkin, Mark Baker, Carol Baker and Nicole Moore*

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# OSHA 10 HOUR & FORKLIFT CERTIFICATION WORKSHOP AGENDA

February 2-3, 2017 - Altorfer, Inc.

4949 International Pkwy., Springfield, IL 62711

## OSHA 10 Hour Training Agenda

Thursday, February 2nd

- 9 - 11 am Introduction to OSHA (2 hours)
- 11 - 11:10 am Break
- 11:10 - 12:30 pm Fall Protection (1 hour 20 minutes)
- 12:30 - 1 pm Lunch
- 1 - 2 pm Electrical (1 hour)
- 2 - 2:30 pm Stairways & Ladders (30 minutes)
- 2:30 - 3 pm Identifying Health Hazards (30 minutes)
- 3 - 3:15 pm Break
- 3:15 - 3:45 pm Personal Protective Equipment (30 min.)
- 3:45 - 4:15 pm Material Handling (30 minutes)
- 4:15 - 5 pm Emergency Action Plan (45 minutes)

Dinner is on-your-own but there is a restaurant / bar in the hotel and many others close-by as well.

## OSHA 10 Hour Training Agenda

Friday, February 3rd

- 8 - 9 am Caught-in-between (1 hour)
- 9 - 10 am Struck by (1 hour)
- 10 - 10:10 am Break
- 10:10 - 11:30 am Excavating/Trenching/Jobsite Awareness (1 hour 20 minutes)
- Total Classroom Time: 10 hours 25 minutes**
- 11:30 am - 12:15 pm Lunch

## Forklift Operator Certification Training

Friday, February 3rd

- 12:15 - 4 pm
- OSHA Regulations
- ANSI Standards
- Forklift Features
- Center of Gravity
- Stability Factors
- Load Center
- Fulcrum Point
- ID Plate
- Load Capacity
- Accident Statistics

## OSHA 10 Hour Certification Topics

The following is a list and brief explanation of what is discussed at this 10-hour course. This is a strict 10-hour course over a 2 day time frame.

### • Introduction to OSHA

This is a breakdown of safety history, what is OSHA, fines/violations, requirements, and what to do if OSHA shows up on the jobsite.

### OSHA Focus Four Hazards

- ◆ **Fall Protection** - safeguards and how to identify fall hazards
- ◆ **Electrical** - identifying electrical hazards at the jobsite, what to look for, how to avoid and general electricity training
- ◆ **Struck by** - jobsite awareness, staying out of harms way
- ◆ **Caught-in-between** - confined space awareness, rules & regulations for confined space entry and work orders

- **Stairways & Ladders** - Proper use of ladders at the construction site and shop locations. Identifying safeguards for stairways and making sure they are safe to use.
- **Identifying Health Hazards** - Targeting noise levels and chemical/gas awareness at the jobsite. Also includes weather related injuries or illness and other emergency action plans that show up at the jobsite
- **Personal Protective Equipment** - Identifying the need and proper use of gloves, shoes, hearing protection, glasses, etc.
- **Material Handling** - Proper use of chemicals, including clean up and storage. This includes all sprays, cleaners, diesels and paints
- **Excavating/Trenching/Jobsite Awareness** - Proper rules associated with digging, including soil types and benching/sloping practices. Addressing who is a competent person and what a competent person needs to know. Other OSHA rules and regulations that address the jobsite specifically.



# OSHA 10 HOUR & FORKLIFT CERTIFICATION WORKSHOP REGISTRATION



February 2-3, 2017 - Altorfer, Inc.

4949 International Pkwy., Springfield, IL 62711

*CEU's On All Sessions ▪ Full Workshop & Additional Attendee Discounts ▪ Daily Lunch/Breaks Provided*

- OSHA 10 Hour begins 9 am Thursday, February 2nd, concluding at 11:30 pm, Friday, February 3rd
- Forklift Certification Training begins at 12:15 pm, Friday, February 3rd

Pre-Registration Workshop Fees - ILICA Members			Pre-Registration Workshop Fees - Non-ILICA Members		
	1st Attendee	Additional		1st Attendee	Additional
Full Registration (both sessions):	\$175	\$125	Full Registration (both sessions):	\$300	\$275
OSHA 10 Hour Certification only	\$120	\$100	OSHA 10 Hour Certification only	\$225	\$200
Forklift Operator Certification only	\$ 75	\$ 65	Forklift Operator Certification only	\$125	\$100
After January 26, 2017 or On-Site Registration			After January 26, 2017 or On-Site Registration		
	1st Attendee	Additional		1st Attendee	Additional
Full Registration (both sessions):	\$200	\$150	Full Registration (both sessions):	\$350	\$300
OSHA 10 Hour Certification only	\$145	\$125	OSHA 10 Hour Certification only	\$250	\$225
Forklift Operator Certification only	\$100	\$ 90	Forklift Operator Certification only	\$150	\$125

**Yes, I will attend the OSHA 10 Hour Training and/or Forklift Certification Training**

- Certified OSHA 10 Hour Training** (*day 1-2*)    
  **Certified Forklift Operator Training** (*afternoon, day 2*)

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

Address: \_\_\_\_\_ City, State, Zip \_\_\_\_\_

Company Name: \_\_\_\_\_ Email: \_\_\_\_\_

Additional Attendees \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_,

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_


**Pre-Registration fees must be received in our office by January 26, 2017.**

**Mail to: ILICA - P.O. Box 474 - Brimfield, IL 61517 or Fax: (309) 446-3744**

**Total Enclosed: \$ \_\_\_\_\_**

A hotel block is available at the Drury Inn (3180 South Dirksen Parkway, Springfield, IL 62703) for double queen rooms at a rate of \$99.99, but don't forget to try your CLC card. Reserve rooms by calling (800) 325-0720 or online at [www.druryhotels.com](http://www.druryhotels.com) using group number 2294835.

**Please make your reservations before January 19th to ensure you get a room.**



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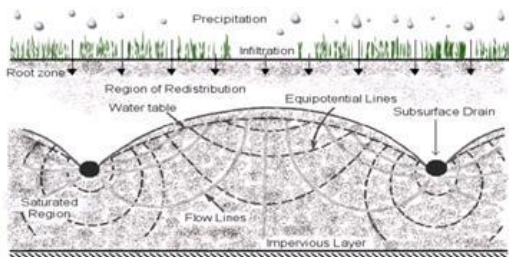
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# The Extension Connection

## Designing Combination Drainage/Sub-irrigation Systems

Source: Dr. Richard Cooke, University of Illinois at Urbana-Champaign

As discussed in the Water Quality Chapter of the Illinois Agronomy Guide (<http://extension.cropsciences.illinois.edu/handbook/pdfs/chapter11.pdf>), normal May through August rainfall has typically been enough to guarantee a good corn or soybean crop in most years. However, rainfall patterns are changing, and it may become necessary to provide supplemental water during the summer months. The use of combination drainage/ sub-irrigation systems is an attractive option to supply supplemental water. In these systems, the same pipes that used for drainage are used for sub-irrigation. The design of these systems require special considerations.

Although drainage and sub-irrigation designs are based on the same principles, there are several differences. In drainage (Figure 1), the water table is highest midway between the drains and drawn down to drain level at the drains. The required spacing (S) is a function of the hydraulic conductivity of the soil (K), the height of the water table above the drain midway between the drains (m), the depth from the drain to the impermeable layer (d), and the drainage coefficient (DC). The drainage coefficient in this context, is the depth of water to be removed in 24 hours. For sub-irrigation (Figure 2), the water table is highest over the drain, and lowest midway between the drains. For a given height over the drain, there are many possible mid plane heights. In determining spacing, both the mid plane and over-drain heights are specified, whereas in drainage, only the mid plane height is specified. In addition, in sub-irrigation, the drainage coefficient is replaced by the irrigation coefficient (IC). The irrigation coefficient is crop dependent, and

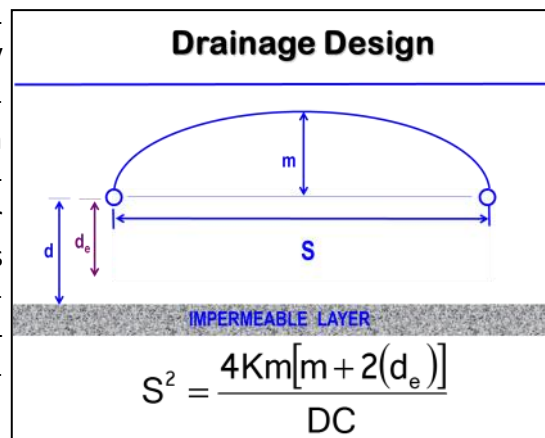


Figure 1. Determination of spacing in drainage design.

may be defined as the peak depth of water removed by the crop in 24 hours. Whereas the drainage coefficient typically used for design in Illinois is 3/8ths to 3/4ths inches, the irrigation coefficient for corn or soybean is approximately 1/4 inch.

### Water supply

One of the first step in the design of a sub-irrigation system is to determine if the water source is adequate. A corn or soybean crop in Illinois requires 20 to 25 inches of water. Most of this is supplied by rainfall and water stored in the soil profile at the beginning of the season. Supplemental water may be supplied from a stream, a pond, or pumped from an aquifer. The amount of supplemental water required is dependent on rainfall patterns.

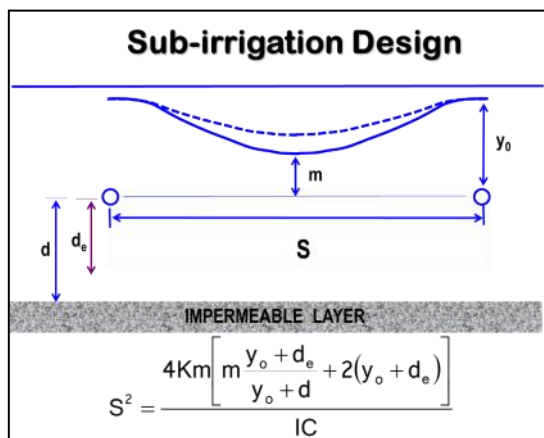


Figure 2. Determination of spacing in sub-irrigation design.

## Designing Combination Drainage/Sub-irrigation Systems *(cont.)*

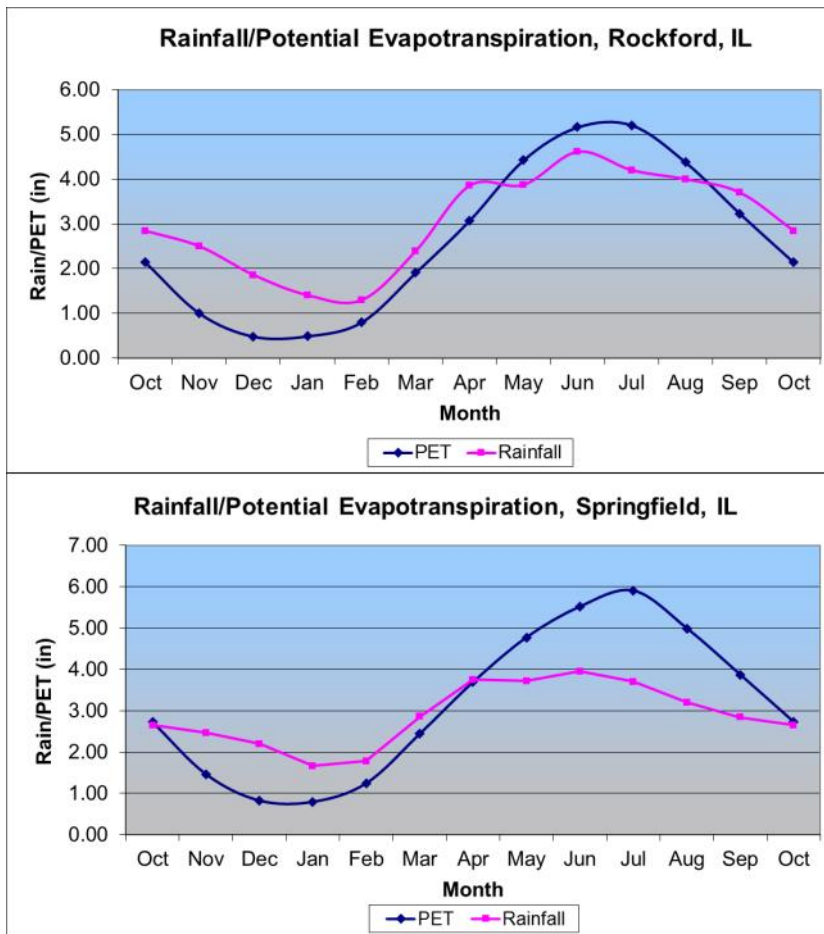


Figure 3 shows the relationship between mean monthly rainfall and mean monthly potential evapotranspiration in two places in Illinois, Rockford in the north, and Springfield in central Illinois. The potential evapotranspiration is a good indicator of maximum consumptive water use by a crop. For most of the year, rainfall exceeds potential evapotranspiration, and no supplemental water is needed. In late spring and summer (May through August), potential evapotranspiration exceeds rainfall. This is the period when supplemental water is needed, if there isn't sufficient water stored in the soil. In general, systems should be designed to supply at least 5 inches of water. However, this amount is location specific, and will be dependent on future rainfall patterns. For example, as shown in Figure 3, a system in Springfield would require more supplemental water than one in Rockford.

Figure 3. Average monthly precipitation and potential evapotranspiration from a growing crop in two region of Illinois.

Crops are particularly sensitive to water stress around the time of reproductive

growth (silking in corn). It is most important to ensure that adequate water is available around this time.

The product of the depth of supplemental water needed in inches, and the area of the field or section of the field to be irrigated in acres, gives the volume of water needed, in acre-inches. The acre-inch, approximately equal to 21,750 gallons, is a convenient unit for design. Consider a 20-acre field that requires 5 inches of supplemental irrigation. In this instance 100 acre-inches of water would be required. A 2-acre pond would have to be at least 50 inches deep to provide enough water. Water would also be lost from the surface of the pond through evaporation, so the pond would need to be a few inches deeper.

Water may be gravity-fed or pumped into the system. Pumped systems should be able to supply water at least at the same rate as the maximum consumptive water use of the crop, the irrigation coefficient. A  $\frac{1}{4}$  inch irrigation coefficient translates into approximately 4 gallons per minute per acre. Thus a suitable pump for the 20-acre field mentioned above would have a capacity of at least 80 gallons per minute.

### Soil

The most important factor in determining if a soil is suitable for sub-irrigation, is its ability to sustain an elevated water table. Soils classified as being hydric typically require drainage, and for the most part, are suitable for sub-irrigation. Below is a list of hydric soils in each county in Illinois: [http://www.wq.illinois.edu/dwm/National\\_Hydric\\_Soils\\_List\\_2014\\_IL.xlsx](http://www.wq.illinois.edu/dwm/National_Hydric_Soils_List_2014_IL.xlsx)

# Designing Combination Drainage/Sub-irrigation Systems *(cont.)*



Figure 4. Soil map of a field being considered for sub-irrigation.

In a particular field, not all the soils may be suitable for sub-irrigation. However, if the majority of the soils are suitable, the field is considered suitable. In the field shown in Figure 4, Soils 56A and 56B are not suitable for sub-irrigation as they drain quickly and it is difficult for them to sustain an elevated water table. However, Soils 152A and 152B are suitable and they cover the majority of the field. Therefore, this field is suitable for implementing sub-irrigation, if the other general and site-specific are met. It is possible to implement the practice in a section of a field, if that section meet the suitability criteria.

## Layout

In combination drainage/sub-irrigation systems, the spacing and layout are based on the values for sub-irrigation. The NRCS practice standard for sub-irrigation in Illinois (<https://efotg.sc.egov.usda.gov/references/public/IL/443Final.pdf>) specifies that the lateral spacing should be “no more than one-half the lateral spacing specified by the Illinois Drainage Guide for drainage of the design soil.” Thus, for Drummer, for example, where the recommended spacing for drainage is 80 to 100 feet, the spacing for sub-irrigation should be no more than 40 to 50 feet.

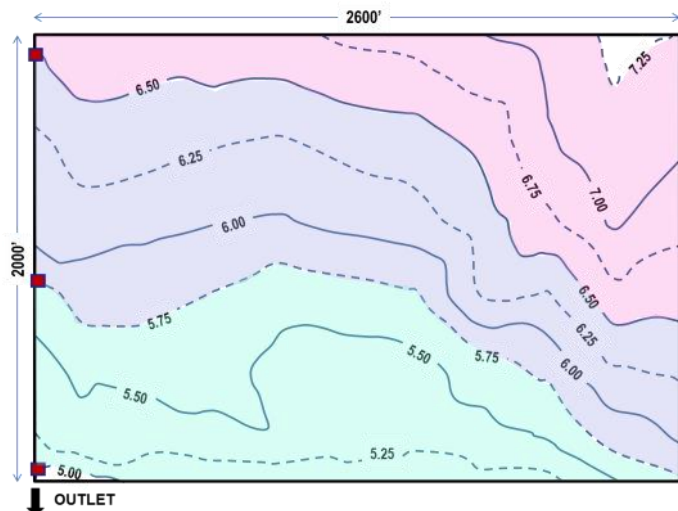


Figure 6. Field divided into three 0.75 ft. control zones for sub-irrigation.

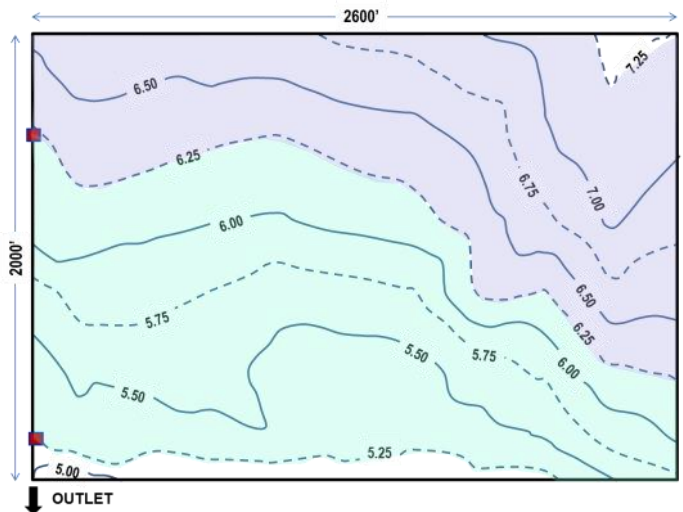


Figure 5. Field divided into two 1.0 ft. control zones for sub-irrigation.

The drainage system should be laid out in zones, with each zone having a control structure through which water can be applied or controlled. The elevation difference in each zone should be a foot or less (Figures 5 and 6). Laterals should be evenly spaced within each zone.

## Other Consideration

Other considerations for sub-irrigation design are listed in the NRCS practice standard for sub-irrigation in Illinois (<https://efotg.sc.egov.usda.gov/references/public/IL/443Final.pdf>). These include information on utilities and permits, plans and specifications, and operation and maintenance.

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# 2017 IADD CONFERENCE

## January 19th & 20th, 2017

The Illinois Association of Drainage Districts would like to invite all ILICA members to attend our Annual Conference in Bloomington on January 19th & 20th, 2017. This popular conference caters to the needs of drainage commissioners but would also be valuable to those working with drainage districts. Questions? Please call (217) 763-6300.

**LOCATION:**  
**DoubleTree Hotel**  
**10 Brickyard Drive**  
**Bloomington, IL 61701**

### AGENDA

Thursday, January 19th

- 12:00pm **Registration & Trade Show Open**
- 1:00pm **Regulatory Panel**– *Representatives from regulatory agencies such as the US Army Corps of Engineers and NRCS will discuss how their regulations apply to drainage districts. Then we will provide several situations and each agency will discuss what interest their agency would have in that situation.*
- 2:45pm **Break**
- 3:00pm **Appealing an Adverse Wetlands Determination on Farmland: A Case Study**
- 4:00pm **Illinois Nutrient Loss Reduction Strategy: An Update on Implementation Efforts**

- 10:00am **Break**
- 10:15am **Option A: Modernizing Your Drainage District: One District’s Attempt to Bring Their Tile System From the 19th Century to the 21st Century.**  
**Option B: Commissioner Responsibilities**
- 11:00am **Break**
- 11:15am **Option A: Everything You Ever Wanted to Know About Certified Wetland Determinations But Were Afraid to Ask**  
**Option B: Are You Ready for the Next Generation of Soybeans, Enlist® and Xtend®?**
- 12:00pm **Luncheon**
- 1:00pm **Keynote Speaker - Eric Snodgrass**  
**The Effect of Climate Change on Agriculture**
- 1:30pm **Attorney & Engineer Panel**
- 2:30pm **Break**
- 2:45pm **Option A: Using Cover Crops to Cycle Nutrients**  
**Option B: Working with the Media**
- 3:15pm **Break**
- 3:30pm **Option A: History of Tile Drainage**  
**Option B: Open Meetings Act Training**

Friday, January 20th

- 7:00am **Registration, Breakfast & Tradeshow Open**
- 8:00am **IADD Annual Business Meeting & Legislative Report**
- 8:45am **Des Moines Water Works Lawsuit Update**
- 9:15am **Option A: Myth Busting Nitrate Problems**  
*Dr. Michael Castellano of Iowa State University will bust the myth that many nitrate problems are caused by farmers’ mismanagement of fertilizer.*  
**Option B: I’m A Drainage Commissioner...Now What? Q&A For Commissioners**

\*Please Note: The agenda is subject to change without notice.

### 2017 IADD ANNUAL CONFERENCE REGISTRATION FORM

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

Person Attending: \_\_\_\_\_

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

E-Mail: \_\_\_\_\_

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

**REGISTRATION FEES:**

**IADD and ILICA Members: \$60**  
 (\$70 after Dec. 10th, \$80 at the door)

**Non-Members: \$90**  
 (\$100 after Dec. 10th, \$110 at the door)

Please make checks payable to the IADD.

Mail Registration form and check to: IADD, P.O. Box 943, Morton, IL 61550

*Registration is also available on-line at [www.IADD.info](http://www.IADD.info)*



# Training Workshop: Private



## Sewage Disposal Installer, Pumper, Portable Sanitation Technician CEU's

Thursday - January 12, 2017

Embassy Suites Hotel &

Conference Center, East Peoria, Illinois

Chase Environmental Services and the Illinois Land Improvement Contractors Association are offering 3 CEU's, required for the renewal of Illinois Septic Licenses, during the 2017 convention in East Peoria. The program is being offered at a **discounted rate of \$30 for single, \$50 for dual or \$70 for all 3 licenses to ILICA members**, compliments of Chase Environmental who has been providing these certified septic programs for three years now.

Chase Environmental is direct mailing non-members from the 10 counties closest to Peoria, offering a single license class FREE for anyone who joins ILICA at the training. These guests will also be able to attend the trade show and lunch prior to the training, sponsored by Martin Equipment of Illinois.

**Training Schedule: 1:30 - 5 pm**

**3 Hour IDPH approved CEU course for Private Sewage Disposal Contractors**

(includes sign-in, breaks between sessions, sign-out, workshop evaluations and certificate distribution)

**In addition to the septic training fees, the following charges would apply:**

8 am - 9 pm: **\*Full Day Registration:**  
Trade Show, Breaks, Lunch, Dinner, Live Auction and Hospitality Hour (5 - 9 pm)  
**\$95.00**

12 pm - 5 pm: **1/2 Day Registration:**  
Trade Show, Lunch, Septic Training only  
**\$35.00**

**\* If your spouse would like to attend, Thursday's ladies day make & take (including lunch) would also be included.**



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# Registration Form



## Private Sewage Contractor Training Workshop

Please use one form for each registrant

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

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

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

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

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

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

IDPH Installation Contractor License #: **049** - \_\_\_\_\_

IDPH Pumping Contractor License #: **054** - \_\_\_\_\_

IDPH Certified Portal Sanitation Technician #: **901** - \_\_\_\_\_

**Single License Training - \$30**

**2 License Training - \$50**

**3 License Training - \$70**

**Please complete this form and mail it along with a check, payable to ILICA, for your participation to:**

Illinois LICA  
P.O. Box 474  
Brimfield, IL 61517



**Septic Training: \$ \_\_\_\_\_**

**Convention**

**Registration: \$ \_\_\_\_\_**

**Total: \$ \_\_\_\_\_**

- ◆ Register through Illinois LICA to receive the discounted registration fee for this training.
- ◆ Contact the ILICA office for more information regarding FREE septic training just for becoming an ILICA member.
- ◆ Please include the ILICA convention registration form if your spouse is planning to attend or if you are attending additional days or activities.
- ◆ Questions about training content? Call Doug Ebelherr (815) 761-3842 or email dougebhelherr2@aol.com. More info can be found at: <http://contractortrainingstore.com>.



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# 2017 ILICA CONVENTION SCHEDULE

**Embassy Suites Hotel - East Peoria, IL  
100 Conference Center Drive, East Peoria Illinois**

## JANUARY 11<sup>TH</sup> - 14<sup>TH</sup>

### Wednesday, January 11th

3 - 4 pm Convention Committee/Hotel Staff meeting  
**5 - 6 pm Registration Open**  
 5 - 7 pm Exhibitor Set up in Exhibit hall

### Thursday, January 12th

8 am - 4 pm Registration  
**8 - 9 am Education: JULIE Training/Updates**  
**8:30 am Breakfast in Exhibit Hall/ Exhibits Open (Through 7:30 pm)**  
**9:30 am Ladies Activity -Wood Painting**  
**10 - 11 am Education: IL NLRs: Where are we now? -Eliana Brown**  
 12 pm Lunch (New members announced)  
**12:30 pm Partner Reports - IL Corn, National LICA**  
**1 pm Ladies make & take: Master Gardner U of I**  
**1:30 - 5 pm Septic Training (3 CEU's required for pumpers, installers and portable sanitation technician annual licensing) - Doug Ebelherr**  
 2 pm Exhibitor Group Photo  
**2 - 2:30 pm Education: Water Quality Practices - Bob Clark**  
 2:30 pm Break  
**3 - 3:30 pm National LICA Benefit: Identity Theft, Personal & Business Protections - LegalShield**  
**4 pm ADMC Update - Steve Baker**  
 4:15 pm Nomination Committee  
 4:30 pm Awards Committee  
 5 pm Hospitality Hour in Exhibit Hall  
 5:45 pm Convention Chair Welcome  
**6 pm Water Quality Convention Kick Off Dinner**  
**7 pm Silent auction closes**  
**7:15 pm LIVE Auction**  
 9 pm - 1 am Associate Hospitality Rooms Open

### Friday, January 13th

7:30 am Devotions  
 8:15 - 9 am Breakfast  
 8 - 11 am Registration  
**8 am - 12:30 pm Exhibits Open**  
**8:30 - 9:30 am Education: Partner summer project updates- TWI, IL Corn**  
**9:30 - 10:30 am Education: NREC/UoI Research updates - Lowell Gentry**  
**10 am - 1 pm Ladies Day - In-house shopping spree**  
 12 pm Lunch  
**12:30 pm Partner Reports - NRCS, IADD, IFCA**  
 1:15 pm Final Board of Directors Meeting  
 1:15 pm Associates Committee Meeting  
 1:30 - 3 pm Exhibit tear down  
 1:30 pm Members meeting & Election of Officers  
 2:30 pm Break  
**5 pm Hospitality hour in HIJ**  
 6 pm Awards Banquet intro  
 6:15 pm Dinner served  
**7 pm Awards Ceremony**  
 9 pm - 1 am Associates Hospitality Rooms Open

### Saturday, January 14th

7:30 am Devotions  
 8:15 - 9 am Breakfast (on own in Atrium)  
**9 am Ladies make & take**  
**9:15 - 10:15 am Education: Dustin Courson, CPA**  
 10:15 am Break  
**10:30 - Noon Education: Drainage Law - Joe Taylor**  
 12 pm Lunch & Convention Committee Meeting  
 1:30 pm On Your Own Optional Tour: Bowling at Bass Pro Shops



**Registration Form**  
**Illinois LICA Convention & Members Meeting**  
**January 12 - 14, 2017**  
**Embassy Suites Hotel & Conference Center - East Peoria, IL**



Make Your Reservations Today! Call 1-800-Embassy or visit Hilton Embassy Suites East Peoria website: [www.embassysuiteseastpeoria.com](http://www.embassysuiteseastpeoria.com) and mention the **IL Land Improvement Block** or enter code **ILI**. Please make your reservations before **December 21, 2016** to make sure you get our guaranteed room rate of \$119 plus tax.

Return completed registration form to: Illinois LICA ° P.O. Box 474 ° Brimfield, IL 61517 ~ Or fax to: (309) 446-3744

**Pre-Registration for the ILICA Convention – January 12 - 14, 2017**

Attendee Name: \_\_\_\_\_ Spouse's Name: \_\_\_\_\_  
 Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_  
 Company Name: \_\_\_\_\_  
 Additional Name(s): \_\_\_\_\_

Price of registration includes all meals & activities listed in program, unless otherwise noted.

Total Enclosed: \$ \_\_\_\_\_ (Make check payable to ILICA)



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**Live Auction • Ladies Program • Awards Banquet • Hospitality Rooms**

**Pre-Registration Fee:**  
Must be received in our office by January 2, 2017

Full Participation (3 days)	One Day Participation
Individual \$195	Individual \$ 95
Couple \$300	Couple \$145
Child (5 - 12) \$ 85	Child (5 - 12) \$ 50
<i>(Under 4 free)</i>	<i>(Under 4 free)</i>

Cost of Registration after January 2, 2017

Full Participation (3 days)	One Day Participation
Individual \$240	Individual \$115
Couple \$345	Couple \$175
Child (5 - 12) \$110	Child (5 - 12) \$ 65
<i>(Under 4 free)</i>	<i>(Under 4 free)</i>

**Indicate which day(s) and meals you plan to attend**

**Thursday**  **All Meals or**  
 **Breakfast**  
 **Lunch**  
 **Dinner**

**Friday**  **All Meals or**  
 **Breakfast**  
 **Lunch**  
 **Dinner**

**Saturday**  **Lunch**  
 Breakfast on your own in hotel atrium included with room cost



On Your Own  
Optional Saturday  
Activity

Uncle Buck's Fish Bowl - Bass Pro Shop Bowling @ 2 pm  
 Yes  How Many? \_\_\_\_\_

**LADIES**

Friday Morning - Vendor Show  
 YES  How Many? \_\_\_\_\_

Thursday Afternoon - Make & Take  
 U of I Extension - Master Gardner  
 YES  How Many? \_\_\_\_\_



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## CALENDAR OF EVENTS

### Illinois

#### 2017 ILICA Convention & Member Mtg. January 12-14, 2017

Embassy Suites Hotel & Conference Center  
100 Conference Center Dr., East Peoria, IL 61611  
Board Meeting - Friday, January 13 @ 1:15 pm  
Member Meeting - Friday, January 13 @ 1:30 pm

#### OSHA 10 Hour & Forklift Operator Certification Workshop

February 2-3, 2017

Altorfer, Inc.  
4949 International Pkwy., Springfield, IL 62711

### National

#### LICA Winter Convention & CONEXPO

March 4-6, 2017 (NLICA) & March 7-11, 2017 (CONEX)

Harrah's Las Vegas Hotel & Casino  
3475 Las Vegas Boulevard South, Las Vegas, NV 89109  
No LICA hotel block available

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Martin Equipment of Illinois, Inc . . . . .	28
Metal Culverts, Inc . . . . .	12
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## 2017 NATIONAL LICA WINTER CONVENTION TENTATIVE AGENDA



### SATURDAY, MARCH 4

5:00 pm Executive Committee

### SUNDAY, MARCH 5

7:00 am - 7:30 am Devotions

7:30 am - 8:00 am Committee Chairs

8:00 am **Opening Breakfast**

9:15 am - 10:15 am Education/Tech  
Ladies/ Devotions  
Legislative  
Water Table Mgmt.

10:30 am - 11:30 am By- Laws  
Conservation, Exc.  
Executive Directors

11:45 am - 12:45 pm Convention  
Long-Term/  
Past Pres.  
On-Site Waste  
Safety/Insurance

1:00 pm **Lunch**

2:15 pm - 3:15 pm Associates  
Membership  
Policy

3:15 pm - 4:15 pm Region Meetings

4:15 pm - 5:00 pm Budget

7:00 pm - 10:00 pm **Associates' Night**

### MONDAY, MARCH 6

7:00 am - 7:30 am Devotions

7:30 am **Breakfast**

9:00 am - 10:15 am Delegates Meeting

10:30 am - 11:45 am Board Meeting

12:00 pm **Lunch**

6:00 pm **CNA Reception**

7:00 pm **Awards Banquet**

### ASSOCIATES' NIGHT

Sunday evening national associates will exhibit their products and services, while networking with LICA members. This year, the theme of the night is construction! There's no better way to start CONEXPO week than by wearing your hard hats and utility belts. Everyone is encouraged to join in the fun and dress the part.

**Interested in exhibiting?  
Contact the National LICA Office  
Phone: 630-548-1984  
Email: [anational.LICA@gmail.com](mailto:anational.LICA@gmail.com)**

### MAGICIAN CHRISTOPHER CARTER AWARDS BANQUET

Christopher Carter is a mindreader, motivational speaker, and magician you will be raving about for months. He will provide LICA members with an outstanding entertainment experience.

Christopher has created custom presentations for some of the nation's top corporate groups, including Sprint PCS, Harley-Davidson, Bristol Myers Squibb, Phillips Electric, Wells Fargo, The Million Dollar Round Table, and many more.







**2017 NATIONAL LICA WINTER  
CONVENTION REGISTRATION**  
**LAS VEGAS, NV • MARCH 4-6, 2017**



Company \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Phone \_\_\_\_\_

Email \_\_\_\_\_

Names of Attendees (for Badges)

Name \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

Name \_\_\_\_\_

**Early Bird Registration**

**Postmarked by January 29, 2017**

**Members, Spouses, Associates \$295**

Number Attending \_\_\_\_\_ Total \$ \_\_\_\_\_

**Youth: 13 Years & under (Under 3 Free) \$235**

Number Attending \_\_\_\_\_ Total \$ \_\_\_\_\_

**Registration**

**Postmarked after January 29, 2017**

**Members, Spouses, Associates \$325**

Number Attending \_\_\_\_\_ Total \$ \_\_\_\_\_

**Youth: 13 Years & under (Under 3 Free) \$255**

Number Attending \_\_\_\_\_ Total \$ \_\_\_\_\_

**Registration Includes: Associates Night, Sunday breakfast & lunch, Monday breakfast & lunch, CNA Reception & Awards Banquet.**

**Hotel Information:**

Harrah's Las Vegas  
3475 Las Vegas Boulevard South  
Las Vegas, NV 89109  
(800) 214-9110

**Please note there is no LICA Block.**

The convention meetings & events are being held at Harrah's. Members can stay at Harrah's or another hotel if they choose.

Visit the National LICA website to make reservations through CONEXPO.

Return this form with payment to:  
**LICA Winter Convention**  
**3080 Ogden Ave. Suite 300, Lisle, IL 60532**

**Convention total \$ \_\_\_\_\_**

Enclosed is my check for \$ \_\_\_\_\_

*or charge my credit card*

Credit Card MC Visa

Cardholder \_\_\_\_\_

Card # \_\_\_\_\_

Exp. \_\_\_\_\_ 3 Digit Code \_\_\_\_\_

Billing zip code \_\_\_\_\_

**Registration Policy:** Only individuals registered and wearing badges may attend Winter Convention events. No registration will be processed without payment. Registration fee deadlines will be strictly enforced.

**Refund Policy:** For cancellations received prior to February 12, 2017 a \$30.00 charge will be deducted from the original amount paid. No registration payment will be refunded after February 12, 2017 unless there has been an emergency.

## SAFETY FEATURE: THE COLD STRESS EQUATION

Cold-related injuries and illnesses can slowly overcome a person who has been chilled by low temperatures, brisk winds or wet clothing. This dangerous combination is known as The Cold Stress Equation, according to the Occupational Safety and Health Administration (OSHA). Here is a closer look at how these factors interact with one another.

### Cold Weather Injuries and Illnesses

When you are exposed to cold weather, it is important to know warning signs of serious cold-related conditions. Study the following practices to be ready to assist.

#### Frostbite

When frostbite occurs, there is freezing in the deep layers of the skin and tissue. The skin becomes pale, waxy-white, hard and numb. This condition usually affects the fingers, hands, toes, feet, ears and nose. If you suspect that a co-worker has frostbite, do the following:

- Move the person to a warm, dry area and do not leave him or her alone.
- Remove any wet or tight clothing that may cut off blood flow to the affected area.
- DO NOT rub the affected skin, as this can cause damage to the skin and tissue.
- Gently place the affected area in a warm water (105° F) bath and monitor the water temperature to slowly warm the tissue. Do not pour warm water directly on the skin because it will warm the tissue too fast. This can cause damage. Warming the skin generally takes about 25 to 40 minutes.
- After the affected area has been warmed, it may become puffy and blister. There may also be a burning sensation and numbness. When normal feeling, movement and skin color have returned, the affected area should be dried and wrapped to keep it warm.
- If the affected area could get cold again, do not warm the skin. Should the skin be warmed and then become cold a second time, there could be severe tissue damage.
- With all frostbite cases, the injured person should seek medical attention as soon as possible.

#### Hypothermia

When hypothermia occurs, the normal body temperature (98.6° F) drops to or below 95° F and causes fatigue, drowsiness, uncontrolled shivering, bluish skin, slurred speech, clumsy movements, irritability and irrational or confused behavior. If you suspect a co-worker has hypothermia while working on land, do the following:

- Call for emergency assistance as soon as possible.
- Move the person to a warm, dry area and do not leave him/her alone.
- Remove any wet clothing and replace it with warm, dry clothing or wrap the person in blankets.
- Have the person drink warm, sweet drinks (sugar water or a sports drink) if they are alert. Do not administer drinks with caffeine or alcohol.

- Have the person move his or her arms and legs to create muscle heat. If he or she is unable to do this, place warm bottles or hot packs in the armpits, groin, neck and head area. DO NOT rub the person's body or place him or her in a warm water bath, as this may stop the heart.



If you suspect a co-worker has hypothermia while he or she is in water, do the following:

- Call for emergency assistance immediately. Body heat is lost up to 25 times faster in water.
- DO NOT remove any clothing. Instead, button, buckle, zip and/or tighten any collars, cuffs, shoes and hoods because the layer of trapped water closest to the body provides insulation that slows the loss of heat. Assist the person in keeping his or her head out of water and putting on a hat or hood.
- Get the person out of the water as soon as possible or have him or her climb on a floating item. The person should not attempt to swim, unless another person or object can be reached. Swimming or other physical activity uses necessary body heat and reduces overall survival time by approximately 50 percent.
- If getting the person out of the water is impossible, help the person to wait quietly to conserve body heat by folding the arms across the chest, keeping the thighs together, bending the knees and crossing the ankles. If there are several people in the water, huddling together with chests held tightly generates body heat and can further survival.

### Occupational Safeguard

Remaining safe from the elements on the job is both your responsibility and the responsibility of your employer. Keep these recommendations in mind to avoid cold weather injuries and illnesses:

- Recognize environmental and workplace conditions that may lead to potential cold-induced ailments.
- Learn the signs and symptoms of cold-induced ailments and what to do to help others or yourself.
- Select proper clothing for cold, wet and windy conditions. Layer clothing to adjust to changing temperatures and wear a hat, gloves and underwear that will keep water away from the skin. Those made of polypropylene are best.
- Take frequent, short breaks in warm, dry shelters to allow the body to warm up.
- Avoid exhaustion and fatigue to keep your muscles warm.
- Drink warm, sweet beverages and eat high-calorie foods like pasta.
- Always have a work buddy that looks out for your safety and you do the same for that person. That way, if either of you needs assistance, you will have the necessary support.

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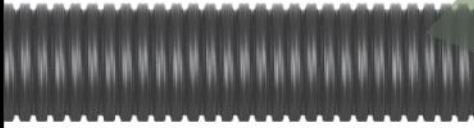
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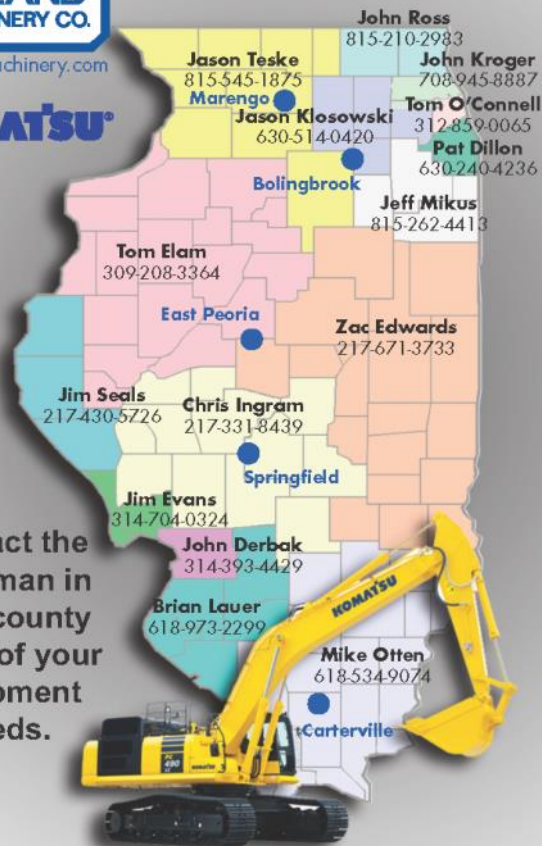


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