

## THE BRINE

ISPE-SALTCREEK.ORG

SALT CREEK CHAPTER  
OCTOBER/NOVEMBER 2018  
VOLUME 44 ISSUE 8

SAVE THE DATES

NOVEMBER 20, 2018 ~

SALT CREEK CHAPTER MEETING

NOVEMBER 28, 2018 ~

WEBINAR - Contract Pitfalls

### 2019 NATIONAL ENGINEERS WEEK

The theme for the 2019 Engineers Week is "ENGINEERS: invent amazing." The sponsoring organizations for 2019 are The American Society of Civil Engineers (ASCE) and the Lockheed Martin Corporation. Engineers Week is February 17 through 23, 2019. The annual STEM EXPO at the Rice Campus of IIT in Wheaton will be Saturday, February 23, from 10:30 AM to 3:30 PM. This will be the 35<sup>th</sup> year that the Rice Campus has hosted the EXPO and the 68<sup>th</sup> year since the first Engineers Week.

The Salt Creek Chapter is fortunate that the firm of Huff and Huff, Inc., now part of GZA GeoEnvironmental, Inc., has again volunteered to be part of our chapter's participation at the next EXPO. But, we can always use more help, and especially new ideas to interest the many youngsters that attend the EXPO. Contact Dirk Krueger if you have any ideas or are able to help out at the EXPO.

<http://www.discover.org/>

Engineers Week Chair: Dirk Krueger  
dirkkruenger@comcast.net

### NOVEMBER MEETING

**Speaker:** Mr. Jack Pizzo (*see page 4*)

#### **Creating Success in the Green Side of Green Infrastructure**

*Attendees at the November 20th dinner presentation will learn the secrets behind good design, installation and management and how it relates to natural area designs.*

**Date, time, and cost:** Tuesday the 20th, 6:30pm to 8:30pm, \$35

**Location:** White Fence Farm

1376 Joliet Road

Romeoville, IL 60446

**Menu:** Chicken, Fish, Shrimp, or Steak (add \$10)

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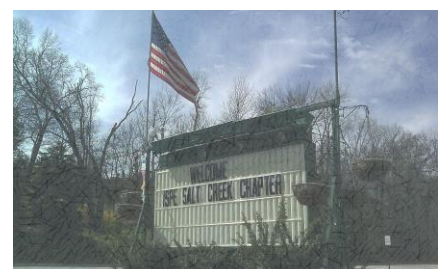
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## IN THIS ISSUE...

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- 3 SEPTEMBER MEETING MINUTES
- 4 ABOUT THE SPEAKER



AND NOW, A WORD ABOUT OUR SPONSOR...

*Bud Hurley received the Illinois Award, the highest award conferred by I.S.P.E., for his many years of service to the profession and to the society at the national, state, and chapter levels.*

## **CLAUDE H. HURLEY COMPANY**

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## SEPTEMBER MEETING MINUTES

The meeting of ISPE Salt Creek Chapter was held on September 27, 2018, at the Wheatstack Restaurant in Lisle. The meeting was called to order by Gilbert Goodman at 7:00 pm. In attendance were 12 PE members.

Treasurer's Report – Cindy Gustafson reported the following:

Checking	\$6,610.58
CD	\$8,041.20
Investment	\$22,216.94

The investment account will be transferred to the Foundation shortly because the return is much higher than the amount we are presently receiving.

### Committee Reports

E-Week, Dirk Krueger reported that he attended a webinar on Sept. 26<sup>th</sup> and that the event will be held at the IIT Wheaton campus on February 23, 2019. The theme for the event is Engineers: Inventing Amazing. Dirk is looking for new ideas for the booth and some new volunteers to eventually take over the event.

Mathcounts: Dawn Brook reported that the event would be February 16, 2019.

State representatives, Gilbert Goodman reported that there is an ISPE Board meeting on October 10, 2018.

Old Business: No old business

### New Business

The speaker for this evening was Bryan Miko from ADS who spoke about the Wild West of Storm Water Quality Management. The main items presented are as follows:

1. The area of the Mississippi watershed is huge.
2. The quality of the streams is dependent upon the location of rural or urban input.
3. The four points in the system where the quality can be influenced are 1. Capture, 2. Conveyance, 3. Storage and 4. Filters and Treatment.
4. Major quality problems include suspended solids and Phosphorus removal with a difficult problem of removing soluble phosphorus.
5. The excess phosphorus causes algae blooms, which reduces the oxygen levels in the streams.
6. The fertilizers from rural areas cause increased nitrogen levels in streams.
7. Trash and oil spills also contribute to the reduction of water quality.
8. Green infrastructures are useful for capture of the storm event but they need time and space to work. A backup system is needed to assist with the processing of the pollutant removal. There is also a high maintenance cost associated with green type installations.
9. Inlet filters and separators located in manhole structures have been effective in helping with water quality but there is a maintenance cost that must be considered.
10. Underground storage systems can be used for detention but they must be able to be cleaned. If arched pipe is used, fabric at the bottom of the arch will help with cleaning.
11. For any of the systems that are considered for enhanced water quality, the long-term cost must be considered.

Meeting adjourned at 8:45 pm. – *John Eisele, P.E.*



## ENGINEERS CREED

*As a Professional Engineer, I dedicate my professional knowledge and skill to the advancement and betterment of human welfare.*

*I pledge to:*

*Give the utmost of performance.*

*Participate in none but honest enterprise.*

*Live and work according to the laws of man and the highest standards of professional conduct.*

*Place service before profit, the honor and standing of the profession before personal advantage and the public welfare above all other considerations.*

*In humility and with need of Divine Guidance, I make this pledge.*



pizzogroup.com

## Degrees

University of Illinois, Urbana-Champaign, IL  
*M.S. in Natural Resources, 2013*  
*B.S. in Ornamental Horticulture, 1984*

## Professional Affiliations

American Society of Landscape Architects  
*Illinois Chapter President*

State of Illinois Prescribed Fire Council  
*Board Member*

The Conservation Foundation  
*Board Member*

Illinois Landscape Contractors  
 Association Member

Illinois Green Industry Association Member

Society for Ecological Restoration Member

Illinois Native Plant Society Member

Natural Areas Association Member

Society of Wetland Scientists Member

## Professional Training

Professional Landscape Architect  
*License No. 157.000457*

Nursery Professional  
*Illinois Certified*

Certified Pesticide  
*Operator/ Applicator*

S-130/ S-190 Basic Firefighter Training  
*Introduction to Wildland Fire Behavior*

Advanced Burn Skills Training  
*The Nature Conservancy*

Advanced Burn Training  
*National Interagency Prescribed  
 Fire Burn Training Center*



## Jack Pizzo

MS, PLA, ASLA, ICN

Owner & President of The Pizzo Group

Author of *Green and Natural Spaces in Your Community*

Jack offers a diverse background with Masters-level training in applied biodiversity, ecology and ecosystem restoration. He has years of experience in the design, implementation and analysis of ecosystems throughout the United States. He is an expert nurseryman with much experience in growing native perennials. He also has ecological contracting experience including native, non-native and invasive plant identification, plant and seed installation techniques and natural areas stewardship.

Regarded as the expert in successful natural areas restorations and growing native plants, Jack lends his field expertise to The Pizzo Group's consulting and design divisions where he is charged with scientifically evaluating current ecological restoration practices, identifying and implementing the improvement of methods, materials and processes used for the enhancement and/ or establishment of native flora and fauna.

Jack is a prescribed fire expert and is regularly contracted as an instructor and has served as an instructor at the Prescribed Fire Training Center in Florida.

His contracting experience gives him practical insight when consulting with project ecologists and designers. Jack has participated in and directed work on an array of high profile ecological projects with large complex organizations, such as the U.S. Army Corps of Engineers, Argonne National Laboratory, Chicago Park District and the National Parks Service.

Jack is the founding partner of The Pizzo Group and serves as the President, Senior Ecologist, Landscape Architect, and Nurseryman. Founded in 1988, The Pizzo Group is one of the Midwest's largest ecological restoration firms. He's the author of the book "Green and Natural Spaces in Your Community." Jack's success in the restoration industry has resulted in speaking engagements across the country and Canada.