

THE BRINE

ISPE-SALTCREEK.ORG

SALT CREEK CHAPTER

APRIL 2018

VOLUME 44 ISSUE 5

SAVE THE DATES

APRIL 4, 2018 ~

[AEC Career Night at Joliet Junior College](#)

APRIL 6, 2018 ~

[Recycled Plastic and Storm Damage
\(WEBINAR\)](#)

PRESIDENT'S MEMO

It is time again to consider nominations for the Chapter officer election for next year. For those members who have not participated as an officer or a committee member for a long time, please consider offering your services to the Chapter. At present, the offices of VP Professional and Secretary are vacant and they have been vacant for two years. Nominations will be voted upon at the April Chapter meeting. Please let me or any other board member know if you want your name to be included with the nominations or to be included as a committee member.

John Eisele, P.E.

2ND MARCH MEETING

Topic: RENEWABLE ENERGY
AT IKEA (yes, **IKEA**)

Location: IKEA Cafeteria
750 E. Boughton Road
Bolingbrook, IL

Date: Thursday, March 29, 2018
Time: 6:30 PM *Meat and Greet*
7:30 PM *Presentation*

Cost: \$20 (*meal NOT included*)
PDH: 1.0

The roof of IKEA Bolingbrook is covered with solar panels. We expect to learn more about the functionality of this solar system.

RSVP: DGreccoD@netscape.net

or ggoodman717@yahoo.com

President: John Eisele
john.eisele@gza.com

President-elect: Gilbert Goodman
GGoodman717@yahoo.com

VP Professional: VACANT

VP Public Relations: Damir Stasic
PESparky@aol.com

VP Operations: Dan Grecco
DGreccoD@aim.com

Treasurer: Cindy Gustafson
c.gustafson@sbcglobal.net

Secretary: VACANT

ISPE Chapter Representatives:
Dawn Brook, DawnCBrook@gmail.com
Brandon Gorte, BGorte@comcast.net

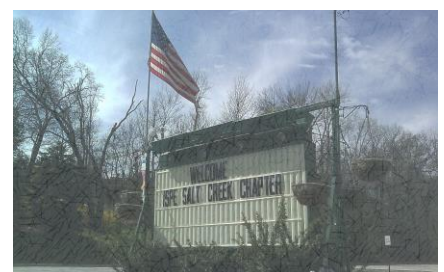
MATHCOUNTS Chairs:
Dawn Brook, DawnCBrook@gmail.com
Dan Grecco, DGreccoD@netscape.net

Engineers Week Chair: Dirk Krueger
dirkrueger@comcast.net

Scholarship Chair: Rich Pocius
RichJPo@aol.com

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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

Consulting Geotechnical Engineers
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1st MARCH MEETING MINUTES

The meeting of ISPE Salt Creek Chapter was held on March 7, 2018, at the Bohemian Crystal Restaurant in Westmont. The meeting was called to order at 7:30 pm. In attendance were 5 PE members.

Minutes – John Eisele asked for a motion to approve the January 31, 2018 meeting minutes. A motion to approve the minutes was made by Dawn Brook and seconded by Bud Hurley. The motion passed unanimously.

Treasurer's Report – No report

Committee Reports

E-Week, John Eisele reported there was another good turnout at the event and that all the tables were busy for the entire time. There were probably over 1,000 attending the event.

Mathcounts, Dawn Brook reported that 21 schools participated this year and that a school that entered for the first time took first place.

Scholarship, John Eisele reported that the scholarship applications are due April 9, 2018.

State representatives, Dawn Brook reported that the recommendation is for the integration affiliation membership.

Bud Hurley, reported that there will be a discussion period from March 23 to March 28. The voting by the delegates will be from March 28 to March 30, 2018. There is no deadline for the agreement, but the by-laws of the Chapter will need to be changed to reflect the new agreement.

Operations, Dan Grecco reported that the next meeting would be at IKEA with the topic discussing the solar panels used on the building.

Old Business: No old business

New Business

The speaker for this evening was Dan Bolinger from the Bolinger environmental who spoke about the Dolomite Prairie Enhancement at the Joliet Arsenal. The main items presented are as follows:

1. The area consisted of 60 high and low quality wetlands on the site.
2. There were about 10 wetlands that covered about 40 acres that could be enhanced.
3. Areas of invasive species surrounded these wetland areas.
4. A seed bank was used to enhance the area with native species of plants.
5. The dolomite stone layer was very shallow with topsoil, which was very hydraulic.
6. The process of removing the buckthorn was started in 2008.
7. There were about 200 plots 10 meters in diameter and 200 feet apart that were enhanced.
8. The main performance standard was to obtain 90% tree and brush cover.
9. Controlled burns were used.
10. Brush clearing was done in winter to avoid damage to the soil.
11. The project was monitored through 2014.
12. Over the time period, the number of native species in the enhanced area doubled compared to 2008.
13. The soil layer also improved to be wetter over the study period,

Meeting adjourned at 9:15 pm. – John Eisele, P.E.

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.

Solar panel installation

As part of our commitment to sustainability, IKEA has installed a solar energy system atop this store. The 140,300 square foot array consists of a 1,124-kW system, built with approximately 4,784 panels.

The IKEA Bolingbrook solar program will produce approximately 1,300,746 kWh of clean electricity annually - the equivalent of reducing 897 tons of carbon dioxide, eliminating the emissions of 176 cars or powering 112 homes yearly.



STEM EXPO 2018 WRAP-UP

Another very successful and well-attended EXPO at Illinois Tech (formerly Illinois Institute of Technology) in Wheaton was held on Saturday, February 24. The guests, including children and adults, were surprised, educated and busy with the many interactive displays of the participating technical associations, businesses, community organizations and educational institutions.

Check out <https://www.facebook.com/IITSoAT> for photos of the event, including a half dozen or so of the Salt Creek volunteers and exhibit.

The **Salt Creek Chapter** exhibit included GZA GeoEnvironmental, Inc. (formerly Huff and Huff, Inc.) interactive environmental engineering display with the prospect of a mini-chocolate bar reward for the eager youngsters! The students learned about topics including ground water, biology, invasive species, and hazardous waste. Our exhibit also had demonstrations of the application of engineering principles to everyday utensils, tools and household objects, as well as the use of gears for rotary to linear conversion, levers, fulcrums, and springs. Series and parallel electrical circuits were demonstrated, in addition to gear motors, electromagnets and permanent magnets. For fun, a Van De Graaff static electricity generator provided shocking amusement for young and old alike!

The **Salt Creek Chapter** display was staffed by **John Eisele, Horacio Chavez, and Adam Kittler from GZA, along with Norm Gutauckas, Bud Hurley, Rich Symns and Dirk Krueger.** As in past years, Norm demonstrated his divining rod and his vast knowledge of what I affectionately call “voodoo engineering.” **Thanks** to all those folks for their participation. We were also pleased to see Salt Creek Chapter past-president Tony Banasiak with his kids touring the exhibits.

The goal of the EXPO is to create interest in engineering and science education, and future careers. The contribution of the staff at IIT West and the many volunteers went a long way to achieving this goal. We even received a request from a home schooling organization to “put on our show” at their facility.

Dirk Krueger, P.E., Salt Creek Chapter EWeek Chairman