



Lead Lines



Eastern Pennsylvania Chapter
International Society of Explosives Engineers
www.easternpaisee.com

Volume 25 Number 3

Summer 2018

The Eastern PA ISEE welcomes requests for topics, and invites readers' letters and other contributions that relate to drilling, blasting, seismology and explosives engineering.

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August Chapter Meeting

Thursday, August 16, 2018

1760 Pub~n~Grille

**1176 Trexlertown Road, Trexlertown, PA 18087
Located at the corner of 222 & Trexlertown Road**

5:30pm - Registration/Meet and Greet

6:00pm - Dinner

6:30pm - Guest Speaker

7:30pm - General Meeting

Nathan Moore

President, Continental Placier Inc.

Presenting: UAVs and the Mining Industry

Please RSVP to Dan Leach

717.574.4024 or danleach58@gmail.com

The cost is \$30.00 per person.

Please make checks payable to: Eastern PA Chapter ISEE



Letter from The President

Dear Members;

The Chapter kicked off summer in June with our 2018 Blasters' Training. Details about the training and photos are featured on page 8 and 10.

We are excited to come together again in August for a meeting at the 1760 Pub~n~Grille in Trexlertown. Guest speaker Nathan Moore, President of Continental Placier Inc. will present, "UAVs and the Mining Industry". Please RSVP to Dan Leach if you plan to attend the meeting.

Then we will be hosting the 2nd Annual Clay Shoot & BBQ on Friday, November 16th. Details about this years event can be found on pages 3-5. We will need event sponsors to help keep the event free for members. Please let us know if you are interested in sponsoring the event. Sponsors will be acknowledged at the shooting stations throughout the course. It's also not too early to start planning your teams for this year's event. Round up your team of 4 and register today!

Finally, remember to stay safe in the summer heat. We have some helpful tips on page 13-15.

Best regards,

Scott



Eastern Pennsylvania Chapter Clay Shoot & BBQ

On Friday, November 16th the Eastern Pennsylvania Chapter will host it's second annual Clay Shoot and BBQ. Join us at 11:30am for a BBQ lunch followed by a mandatory 12:30pm safety class and 1pm start at the Lehigh Valley Sporting Clays course in Coplay, PA.

The event is FREE for members. Non-members will be charged \$30 for a 2019 Chapter Membership. Registration includes a BBQ lunch, 8 station course with 50 rounds, and friendly competition. Ear protection is provided. You are encouraged to bring eye protection or purchase glasses for \$10.00. Prizes will be awarded!

Clay Shoot & BBQ

November 16th

Lehigh Valley
Sporting Clays

2750 Limestone St.,
Coplay, PA

If you are interested in registering, please complete the attached form on page 4. We also have station sponsorship opportunities available.



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Eastern Pennsylvania Chapter Clay Shoot & BBQ



Friday, November 16, 2018

FREE for Members

\$30 for Non-Members

11:30am - 5:30pm

Lehigh Valley Sporting Clays

2750 Limestone St., Coplay, PA

Name_____

Company_____

Address_____

Phone_____ Fax_____

Email_____

Deadline to register is Friday, November 9, 2018

Your registration includes a BBQ lunch, 8 station course with 50 rounds and a golf cart per team of 4. Ear protection is provided. You are encouraged to bring eye protection or purchase glasses for \$10.00.

You can bring your own gun and ammo (7.5-9 lead shot only).

Prizes will be awarded!

The event is FREE for Members.

Non-Members will be charged \$30 for a 2019 Chapter Membership.

Non-members - please complete the membership form on page 19 and this registration form to sign-up.

Send to:

Eastern PA Chapter I.S.E.E.

Ethan Huff

c/o Vibra-Tech Engineers, Inc.

109 East First Street, Hazleton, PA 18201

ethanh@vibratechinc.com

Eastern Pennsylvania Chapter Clay Shoot & BBQ



Sponsorship Commitment Form

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Chapter Leadership Incentive Announced

The Chapter Leadership Incentive is again available to those chapter members who are currently, or are interested in becoming chapter leaders. The selected chapter leader will receive a choice of one complimentary full conference registration (includes one complimentary gala reception ticket) or one complimentary Blasters Weekend Package in addition to up to \$1,000 in reimbursed expenses. The recipient will be expected to attend the Chapter Management Workshop from 7-10am on Sunday, January 27, 2019. In addition the recipient will be required to submit a brief report to ISEE outlining their experience and more importantly, how they will assist their chapter when they return. They will also be required to present their report to their chapter.

Please consider this incentive program carefully, and if you or anyone in your chapter is interested, submit your application as soon as possible. There are a total of 15 chapter incentives available per year and applications will be considered on a first received basis. The incentive will be distributed once ISEE receives the conference attendee's brief post-conference report about their experience and an accounting of their conference expenses including airfare, hotel, car rental and meals. Completed applications are due by Dec. 1, 2018. There is a limit of one incentive opportunity per chapter over a two-year period. Be sure to check with your chapter president to ensure you are eligible. The Chapter Development Committee and ISEE staff will assess all chapter application submissions before making final selections. Awards will be announced no later than Dec. 15, 2018. For more information or to apply, please visit www.isee.org or email Patrick Lang, membership manager, at lang@isee.org.

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Chapter Hosts Blasters' Training in June

On June 28th, 2018, The Eastern PA Chapter conducted an 8hr Blasters' Training refresher class to meet PADEP requirements for continuing education for blaster license renewal. Dave Harrison, Training Committee Chairman and Danny Ray Leach, Program Committee Chairman organized the class and facilitated the program.

The class was held at the Hollywood Casino in Grantville, PA. Twenty-four attendees enjoyed the curriculum consisting of a variety of topics led by local industry leaders. Presenters included: Dave Warpula, Dyno Nobel, "Lessons Learned"; Randy Gardner, Vibra- Tech Engineers, "Blasting Law"; Ed Gawrys, Sandvik, "A Cushion of Safety – For Drill Rigs and Drilling Sites"; Brian Wingfield, ISEE, "Ramsey's Riddles" (with calculators donated by the Mid- Atlantic Chapter ISEE); Derek Bowen, Sauls Seismic, "Proper Installation and Utilization of Blasting Seismographs"; Dave Harrison, Terra Mechanics, "A Demolition Case Study"; Rick Lamkie, Chief Explosives and Safety, PADEP, "Update on current regulations and New Chapter 210 and 211"; Sandy Pelletier, Maine Drilling & Blasting, "Hazard Recognition"; Cara Rosen, Orica USA, "Drone Applications in Blasting"; and James Buchanan, KEMEK LLC, "Quarry Case Study and Importance of Accurate Drill Logs". Nicolle Harman, PADEP, was on hand to help participants submit photos and certificates for license renewals.

The Eastern PA Chapter held the 2018 Blasters' Training thanks to the support of generous sponsors like Austin Powder Company, Blasters Tool & Supply Co., Dyno Nobel, Ideal Blasting Supply Inc., Instantel, International Society of Explosives Engineers, Kemek LLC, Maurer & Scott Inc., Orica USA, Inc., Reichdrill Inc., Sandvick Mining & Rock Technology, Sauls Seismic, Stemlock, and Vibra-Tech Engineers, Inc.

More photos on page 10



An aerial photograph of a city, likely San Francisco, with a large, deep crater in the foreground. The crater is filled with a large plume of dust and debris, suggesting a recent explosion or collapse. A car is visible on the right side of the crater. The city is densely packed with buildings and trees. The sky is overcast.

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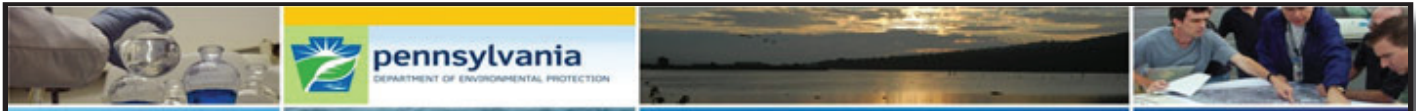
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Letter from The Chief

Dear Eastern PA ISEE Newsletter readers,

Among the changes to the Chapter 211 regulations are requirements for communication between the driller and blaster before any holes are loaded and documentation of that communication in the form of a drill log to be attached to the blast record. It is a must that the blaster be aware of the condition of a bore hole prior to loading. The blaster must be aware if there are mud seams, fractures in the rock, voids, clay, dirt or other inconsistencies in the rock before the hole is loaded so that the blast can be efficient and compliant with Chapter 211 regulations. After the blast is detonated and blast performance is evaluated, it is just as important to have detailed information on why certain things were done—detailed information on pre-blast conditions of the rock and detailed information on how the holes were loaded. All the information can be used to understand why seismograph monitoring information and videos of the blast appear as they do.

Another change to Chapter 211 is the requirement that a blaster have a copy of the Blasting Activity Permit (BAP) available to him while blasting. BAP's are supposed to contain information that demonstrates that the proposed blasting activity can reasonably be expected to comply with Chapter 211. Some of the information, such as blast loading plans are sufficiently detailed that it would benefit the blaster to have the permit in hand. For example, BAP's often have information regarding road blocking or precautions that must be taken in lieu of road blocking. By having a BAP in hand while designing and loading a blast, the blaster is in a better position to ensure that blasting is conducted safely and in compliance with Chapter 211.

Please be safe out there!

Rick



Heat Illnesses Can Be Fatal; know what to do?

Did you know your body is constantly in a struggle to disperse the heat it produces? Most of the time, you're hardly aware of it – unless your body is exposed to more heat than it can handle.

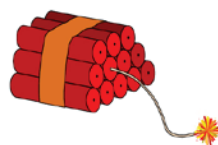
In 2014, 244 people died in the U.S. from exposure to excessive heat, according to Injury Facts 2017, the annual statistical report on unintentional injuries produced by the National Safety Council. Heat-related illnesses can escalate rapidly, leading to delirium, organ damage and even death.

There are several heat-related illnesses, including heatstroke (the most severe), heat exhaustion and heat cramps. Those most at risk include:

- * Infants and young children
- * Elderly people
- * Pets
- * Individuals with heart or circulatory problems or other long-term illness
- * People who work outdoors
- * Athletes and people who like to exercise – especially beginners
- * Individuals taking medications that alter sweat production
- * Alcoholics and drug abusers

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Heatstroke

Heatstroke can occur when the ability to sweat fails and body temperature rises quickly. The brain and vital organs are effectively “cooked” as body temperature rises to a dangerous level in a matter of minutes. Heatstroke is often fatal, and those who do survive may have permanent damage to their organs.

Continued on page 14



Heat Illness Continued

Someone experiencing heatstroke will have extremely hot skin, and an altered mental state, ranging from slight confusion to coma. Seizures also can result. Ridding the body of excess heat is crucial for survival.

- * Move the person into a half-sitting position in the shade
- * Call for emergency medical help immediately
- * If humidity is below 75%, spray the victim with water and fan them vigorously; if humidity is above 75%, apply ice to neck, armpits or groin
- * Do not give aspirin or acetaminophen
- * Do not give the victim anything to drink

Heat Exhaustion

When the body loses an excessive amount of salt and water, heat exhaustion can set in. People who work outdoors and athletes are particularly susceptible.

Symptoms are similar to those of the flu and can include severe thirst, fatigue, headache, nausea, vomiting, and sometimes diarrhea. Other symptoms include profuse sweating, clammy or pale skin, dizziness, rapid pulse and normal or slightly elevated body temperature.

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Uncontrolled heat exhaustion can evolve into heatstroke, so make sure to treat the victim quickly.

- * Move them to a shaded or air-conditioned area
- * Give them water or other cool, nonalcoholic beverages
- * Apply wet towels or have them take a cool shower

Continued on page 15

Heat Illness Continued

Heat Cramps

Heat cramps are muscle spasms that usually affect the legs or abdominal muscles, often after physical activity. Excessive sweating reduces salt levels in the body, which can result in heat cramps.

Workers or athletes with pain or spasms in the abdomen, arms or legs should not return to work for a few hours. Instead:

- * Sit or lie down in the shade
- * Drink cool water or a sports drink
- * Stretch affected muscles
- * Seek medical attention if you have heart problems or if the cramps don't get better in an hour.

The best way to avoid a heat-related illness is to limit exposure outdoors during hot days. Air conditioning is the best way to cool off, according to the CDC. Also:

- * Drink more liquid than you think you need and avoid alcohol
- * Wear loose, lightweight clothing and a hat
- * Replace salt lost from sweating by drinking fruit juice or sports drinks
- * Avoid spending time outdoors during the hottest part of the day, from 11am to 3pm
- * Wear sunscreen; sunburn affects the body's ability to cool itself
- * Pace yourself when you run or otherwise exert your body



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ISEE Emerging Professionals Q&A

with Tristan Worsey, ISEE Emerging Professionals Section Chair

What is all this Emerging Professionals talk?

The Emerging Professionals section is a new section of ISEE that was born from the Young Leaders ad-hoc committee. The Emerging Professionals section became official January 1st, 2017 and is open to all. The objective of the section is to grow new industry professionals' involvement in the society by engaging, retaining, and mentoring new members through providing professional networking opportunities and guidance.

Who can be a member of the Emerging Professionals section?...Everyone!!!

There is no restriction on who can be a member of the Emerging Professionals section. All one has to do to become a section member is pay \$15 when renewing their ISEE membership. The target demographic is a non-student member of ISEE in the first 15 years of their ISEE related career. This could be a recent graduate now working in the industry, a person entering the explosives industry from a different industry, a driller or blaster who wants to get involved with ISEE, and/or anyone who wants to be more involved in ISEE.

Why are we not targeting students?!?!?

The reason for not targeting students is they already have student chapters they need to be involved with. Encouraging students to be involved with the Emerging Professionals section could decline student chapter involvement. The Emerging Professionals section is the students' next step after graduation for staying involved with the society. One area the society has lacked is involvement from newer full members and associate members. The Emerging Professionals section bridges the gap between student members and fully active members.

Continued on page 18

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Emerging Professionals Continued

What are we up to??

Although the section is very new, we are very active. Some of the sections activities include:

- running the student industry connection at the annual conference,
- increasing new member involvement in local chapters,
- providing a social at the annual conference where all attendees can network, and
- providing exclusive career development opportunities.

Look out for the Emerging Professionals Social at the 2019 ISEE annual conference in Nashville. The social is open to all and bridges the gap between our experienced mentors and those of us just starting in the industry that will help keep our great society moving forward. All conference attendees are invited to come join the Emerging Professionals for some fun, networking, and the making of new memories at the annual conference on January 27th, 2019.

How can you help?

Every year the Emerging Professionals puts on two events at the international conference. One event is the Student Industry Connection and the other is the Emerging Professionals Social. For the Student Industry Connection we need volunteers. Have you ever wanted to help out students? The Student Industry Connection is your chance. The Emerging Professionals are looking for table hosts for the student industry connection. No presentation is required, just come ready for casual conversation with small groups of students about your career path. If you would like to help out, please contact Evan Thibaud at ethibaud@maxam.net.

The Emerging Professionals Social is a place for everyone to get together to network before the conference starts. Since we are inviting everyone, the expense of the social is large and we still haven't reached our goal for the 2019 conference. The social is very important for engaging new members. The social allows them to meet people to make sure they get the full ISEE experience. Sponsorships are welcome for the Emerging Professionals Social. If you would like to be a sponsor of the emerging Professionals Social please contact John Rathbun at jrathbun@swenergy.com.



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