



2018 IUOTA Conference Minutes

Host Utility – ENMAX



Host Vendor – JELCO



IUOTA OFFICERS

Chairman – Mark Taylor, ENMAX Power Corporation, Calgary, Alberta Canada

Secretary – Patrick O'Brien, Asplundh Construction

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INTER-UTILITY OVERHEAD TRAINING ASSOCIATION

Tuesday, August 21, 2018

IUSTA/IUOTA joint Session, ENMAX Power Corporation Opening Remarks; Safety Moment – Mark Taylor – Director with ENMAX.

Welcome / **Call to Order**, Chairmen Mark Taylor & Michael Halupa – **Called to order:** The 2018 Conference of the Inter-Utility Overhead Training Association (IUOTA) and Inter-Utility Substation Training Association (IUSTA) was held at the Sheraton Eau Claire in Calgary Alberta Canada on August 21, 2018. The meeting was called to order at 0735, by IUOTA Chairman, Mark Taylor, ENMAX Power Corporation and Michael Halupa, PSEG - Long Island presiding. Opening remarks, Welcome to Calgary and an overview of ENMAX Power Corporation was presented by Jenna Mosely, Vice President ENMAX.

Roll Call from both organizations, Attendee Introductions - All Members - Name and Utility or Vendor being Represented– Secretary, Commodore Sinclair and Secretary Patrick O'Brien.

Future meetings – Chairmen Michael Halupa, Mark Taylor and IUOTA member Mike Burnham. IUOTA/IUSTA will be in Rockland or Portland Maine August 2019. AVANGRID will be the host utility. The host vendor is yet to be determined.

Announcements – Exiting Chairmen Robert “Bo” Maryyanek made a motion to accept Mark Taylor as the new Chairman for IUOTA. The motion was carried 1st and 2nd by John Lowe, Duke Energy and Mark Robke PSEG, LI. Exiting Chairmen Robert “Bo” Maryyanek made a second motion to accept Patrick O'Brien as the new Secretary for IUOTA. This was carried 1st and 2nd by Larry Shields, Lansing Board of Water and Light and Alan Blum PSEG, LI.

Key Note Speaker: Mack Turner – Institute for safety and powerline construction (IPSC):

“Safety Leadership” What we as leaders often overlook. How we as leaders can affect our employees in a positive manner by our own approach to safety and our attitude toward safety. We need to show we care about our co-workers. Everyday wake up and commit to yourself I am going to save a life today! With this mindset we can change the way others will view being safe at both home and work. Remember 27 people in our industry died this year. That is 27 too many.

Approval of the Meeting Minutes: IUOTA Minutes from 2017 meeting were presented for approval by Secretary Patrick O'Brien. A motion was made by Robert “Bo” Maryyanek, Asplundh Construction and seconded by Bud Korn SCE to approve the minutes of the IUOTA 2017, – August 22nd and 23rd held in Sturbridge, Massachusetts, **Motioned carried.**

Accident/Incident reports: was conducted with Moderator, Mark Taylor- ENMAX. UTILITY MEMBERS ONLY.

5-minute showcase time for 7 vendors

Linestar utility supply Inc.-Brian L'Heureux- HDE Lookout Voltage detection network devices.

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Utility solutions- Roger May- XFMR-001 Loadtrainer; tabletop simulator

MWG APPAREL- Ross Malcolm- Custom designed programs for each utility. They participate on several regulatory boards. Finished garment testing and all layering testing done.

Klein Tools- Mark Rapacki- Sockets, knives, battery tools, grips and headlamps.

Tyndale Company- Clyde Wolf & Tom Severino- Manage FR Clothing programs, Manufacture and distribute clothing. New Versa line of clothing. Technical resource in the industry.

Makita Canada Inc- Stefan Parent- They make power tools only. Products for the utilities. Battery platform, 1 battery 200+ solutions.

ISPC T&D Powerskills- Mack Turner- Not for profit and all about safety. Line worker training solutions. On site apprenticeship and continuing education. On site leadership development, safety programs, auditing and craft training.

John Lowe Duke Energy- Duke Energy- Conducting Field Observations:

Field observations have changed from when John Lowe started in 1987. Observations by supervision during that time was more of an informal comment or two by a supervisor that often wasn't timely or detailed as to what you were doing well or what you needed to improve on. Today, observations made are much more detailed than back in those days. At Duke energy targeted areas for observation are Human Performance, PPE, jobsite work area assessments, tools, equipment, vehicle use, policy use, procedure use and crew communications. Duke uses a database called "Plantview" to track observations and trends. This database also allows for "criticality" ratings be given to observers to see who is identifying improvement opportunities or at-risk behaviors and who is not. By doing this they can identify observers in the field who may not be focused on identifying critical tasks and they can be given help to improve their observation skills. This is sometimes achieved by doing a paired audit with a peer. Utilizing trends found in the field observations through the "Plantview" database helps Duke Energy to head off future incidents. Remember, doing nothing means doing something. A key to making positive safety change is by giving timely feedback to crews so they can improve, and good behaviors can be re-enforced.

Bud Korn with Jeff Pickford & Chris Hoffman- Southern California Edison- The first installation of 500kv XLPE Cable system in North America:

This project was a result of the residents of Chino Hills California protesting the upgrading of an existing 3.7 mile stretch of 500kv overhead transmission line through their town. This upgrade of the existing transmission line was part of the Tehachapi renewable transmission project. The solution was to place this 3.7 mile stretch underground, eliminating towers in backyards. The project presented a host of new challenges that were never previously encountered. Tasks like wire pulls, handling cable reels, splicing/restraint vaults, and terminating cables and splices just to name a few. There were also environmental concerns their company needed to address like sound barriers to keep noise levels down during construction. A Contractor did the installation for SCE and in the future training will need to be conducted for SCE personnel, so they can maintain

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the installation in the long-term future. Terminations for the cable are stored at their training center along with spare reels of cable. Any questions or inquiries on the project can be made to William.korn@sce.com.

Robert “Bo” Maryanek- Asplundh Construction- HP/Situational Awareness *with relationship to actual incidents:*

Do you see what I see? Will you say something? Situation awareness is dependent on familiarity with the task and prior success. Perception of risk decreases every time a task is successfully performed. When a worker is familiar with the work or has work experiences with the tasks often will take on greater risk because he feels he’s in control of the work situation. These elements of human nature feed on each other. The guiding principles of Human performance were reviewed highlighted by Bo, remembering all people are fallible, error likely situations are predictable and preventable, and events can be avoided if we understand their causes and apply those lessons learned from those events. 12 real life events were then reviewed to demonstrate how if better situational awareness was used the outcomes could have been different. Remember, one of our best human performance tools is STAR- stop, think, act and review. And we must encourage are people to STOP when you are not certain of the expected outcome or you see something unsafe.

5-minute showcase time for 5 vendors

Jelco – Rusty Bearden and Trevor Thompson gave us an overview of Jelco’s product line including arc flash harnesses they provide.

Bashlin- Doug Parker demonstrated the Grip sling, the Lift “T” for pad mounted transformer equipment and the Patriot fall arrest pole climbing belt.

MADI- Wayne Morris gave us an overview of their new safety knives and new tri-sq big wrench.

Buckingham – Thomas Savola demonstrated his universal harness with dielectric hardware, ox bloks rigging kit, ox hook, ladder fall protection, rooftop fall protection and a new adjustable lineman’s belt.

ESTEX- Michael Scott – ESTEX provides arc blankets and other related products such as bucket hooks, bags and work pouches with tool lanyards.

Sit down Dinner at the Safari Room at the Calgary Zoo.

Wednesday August 22, 2018

Begin IUOTA /IUSTA Break-out Session – Wildrose Ballrooms (2nd floor)

Call to order at 0735 by Mark Taylor.

Tony Kasckowski -INSITE Health- Acheonomics of Musculoskeletal discomfort and industrial sports medicine cures:

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INSITE Health works with major investor owned electric utilities helping the working athlete. Linemen are a unique group of working athletes that have a higher pain tolerance and aren't likely to complain about pain. Tony's group works them to establish a good working relationship, so they will share their aches and pains with them. His Company helps identify better ergonomics for workers when performing their job tasks. They provide efficient and timely care for workers. Tony presented the financial impacts of injuries to company's when aches and pains go ignored. His group can treat workers with before aches and pains escalate into lost time injuries through a series of stretches and massages for workers. By treating these aches and pains early they can save your Company money and lost time down the road. They have had great success with their clients because of the relationships they have established with employees. They can help your organization assess, coach and train your working athlete. They can educate your workforce on body function in relation to work tasks. A demonstration was done with the group on how to alleviate elbow and shoulder pain through a series of massages and stretches.

Bill Eyolfson- ENMAX Power Corporation- Evolution of the ENMAX training center

Back on August 4th, 2011 Bill was hired as the Manager of Technical Training at ENMAX. One of the first things changed at ENMAX was the evaluation process for apprentices. Apprentices went to pre-year training with ongoing evaluations in the field to monitor their progress. No formal skills assessment existed to advance to Journeyman status.

In 2012 ENMAX suffered a fatality with an apprentice. This drove them to develop a PLT Journeyman evaluation that did not exist before. This meant that an apprentice would need more than just the required amount of work hours to become a Journeyman. Now they would need to demonstrate they had the skills to be a Journeyman. In this same year they constructed a way to energize their training yard at both 8kv and 14.4kv voltages whenever they needed to for training. They hosted the ENMAX Lineman rodeo as well.

In 2013 they began to hire technical writers to work alongside subject matter experts to develop course curriculum, training modules and skills assessments. They built and delivered their first leadership and mentorship course for Lineman leads. 2013 also saw the underground training yard built with the capability to simulate faults for training purposes.

In 2014 a work methods group was added along with training labs for secondary voltage connections.

In 2015 Journeyman refresher training was built along with on line ENMAX driver training, Safe backing, blind spot training and driver simulator training.

In 2016 the Lead hand session was re-built for better employee engagement. They built and delivered contractor orientation programs. Safety culture awareness training was built along with "just in time" training for department transfers. A civil training area was also built for the training yard.

In 2017 a contractor assessment program for both overhead and underground work was developed. A 6-hour pre-employment training session was built and delivered. 2 network transformers were installed at their training yard.

In 2018 they facilitated Human performance training sessions for all field staff. They built a manhole vault framing course. A solar panel set up was added to the meter shed. They also became accredited both PLT and PSE journeyman programs.

5-minute showcase time for 7 vendors

MAG-LOK Long handle tools- Cal Zenor- MAG LOK tools promote better ergonomics, versatility, save space and reduce costs due to their innovated design. And they come with a lifetime warranty.

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DILO- Corey Ratza- They are SF6 experts. They have solutions for SF6 gas emissions and control. They conduct SF6 training at no cost. They will be in Tampa FL 11/14 & 11/15 for a seminar.

StatX- George Clottone- StatX offers fixed systems for manhole and vaults fires. They also offer products for first responders like fire fighters for use.

STR Remote Solutions LLC- Chris Kowal- Safe-T-Rack offers a variety of products including the remote racking system and have worked on various utility projects

UBM- Carla Housh- They produce Incident Prevention Magazine, Frontline Education and CUSP programs across the country.

Milwaukee Tools- Nick Discolo- They offer a wide variety of battery operated tools for the electric utility industry. Currently they have the M18 platform and are developing new utility products.

LAC MAC Limited- Andrew Cunningham- His Company offers flame retardant Gore-Tex outerwear, Gore Pyrad technology developed for the military, 100% waterproof, windproof, and breathable outerwear. It can be custom designed and custom fit for your needs. It has a lifetime warranty on manufacturer defects.

Michael Burnham- Avangrid- Safety and Regulation Differences between Canada and the United States.

Safety and regulations differences between the US and Canada is something you want to know about when you are deploying resources from one of the areas to another. Mike covered a sampling of both US and Canadian Departments and agencies. He discussed some of their common attributes and where they differed. He discussed US/Canadian Federal State and provincial governing agencies. NAFTA also holds certain restrictions on the sharing of resources across the border. Union labor resources are not covered under NAFTA. Mike talked about US/Canadian mergers and international acquisitions as well as the top 10 largest US/Canadian utilities. Also discussed were differences in US/Canadian drug testing policies and protocols. US/Canadian workplace violence was discussed. Open discussion with the group was held on real life differences and similarities of rubber glove and sleeve and work methods practices between the two countries.

5-minute showcase time for 4 vendors

INSITE Health- Tony Kaczowski- Works in Industrial sports medicine, ergonomics, physical conditioning, education, functional body mechanics, chronic disease, and injury management.

HILTI- Patti DeVincenzi- Account manager and energy industry expert specializing in Health and safety, new 22-volt product for HILTI and installation systems.

Apparel Solutions- Michael Ens and Peter Clark- Manufacturer of safety programs, PPE, Arc, flash fire, high visibility apparel. Distributor of complimentary products Dragon Wear and Gore. Also can help with corporate compliance programs and with color, weight, comfort, performance of apparel in all climates and conditions.

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CRE- Carlton Rescue Equipment LTD.- Jeremy Leece- They provide for all rescue needs and have the customer service, solutions and technology to back it up. They introduced the Skyhook rescue systems product for the audience.

LUNCH

5-minute showcase time for 6 vendors

IRBY- Scott Baughn- Scott is a tool specialist and discussed IRBY's capabilities to help your Company with electric utility supplies and services.

Northwest Lineman College- Don Harbuck- They have merged with Quanta services. They are an accredited institute of higher learning. They are a leader in the industry with a staff of subject matter experts that have compiled the most up to date training materials and videos in the industry. Remember that post-merger NLC still has the same drive and passion as they did before.

Youngstown Glove Company- John Costello- They have a host of many different products including leather protectors that come with a wear warranty. It is important to them that they provide wear trials for their customers to ensure they are satisfied with their choice of product.

YALE CORDAGE- Marc Halverson- Yale provided rope inspection, safety and housekeeping solutions. They also provide innovation and solutions for any needs you may have.

3DInternet- Brian Doubin- 3DInternet is a leader in simulator training as well as Virtual reality training solutions.

STAPLES-Lindsey Miller- They can help you with custom orders and programs to help you brand your company like the "message in a bottle" on display at the vendor exhibit.

David McPeak- Incident Prevention Institute- Human Performance

David defined human performance for the group. Performance= Behavior + results. We need to know why people do what they do and the way they do it. Remember all humans are fallible. We need to treat all people equal but not the same. Be positive and provide positive re-enforcement for good behaviors. Error likely situations we encounter are predictable, manageable and preventable. Individual behaviors are influenced by your organizations processes and values. People achieve high levels of performance because of the encouragement they receive from leaders, peers and subordinates. Events can be avoided through the understanding of the reasons the events occurred and applying the lessons learned from past events or errors. Don't make the same mistake twice. 3 key HUP tools are STAR, procedure use and adherence, and effective communication gained through mutual understanding.

Brady Hansen- Electrical Workers without borders (EWWBNA)

David talked about how Electrical Workers Without Borders North America (EWWBNA) seeks to create and live in a world where the benefits of electricity are available to everyone, and we do this by utilizing the skills and training of our professional volunteers. EWWBNA stands ready to assist those in need throughout the world. They envision a world where the basic needs provided by electricity is readily available to everyone. EWWBNA's primary goal is to aid in providing resources for communities in developing countries that lack key infrastructure, as well as provide opportunities throughout the world by providing knowledge, resources and experience for the

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benefit of all. They call upon all the men and women in our professional trade who have the training, energy and time and can join our international movement to help others help themselves. www.ewwbna.org

Derrick Johnson- Fortis Alberta- Battery operated tools project

Derrick discussed the lessons his Company learned from their battery-operated tools project. Fortis Alberta wanted to standardize battery operated tools on a single battery platform. Some of the lessons learned was better project manager engagement, budgeting strategies. They strategies for central location for the tools that were received before deployment to the field as well as chipping the tools. Overall the crews were very happy with the tools, but they did have issues in the field with battery run times, especially in cold weather. They also a durability issue with plastic housing's breaking Tools were equipped with smart battery technology (not operating in live line application). Other learnings were difficulty with tools that could not cut pad locks and tool storage in truck bins (truck bins were reconfigured to accommodate the tools) Tethering tools in the air also became mandatory after an incident that occurred in the field.

Open forum Q&A with moderator Mark Taylor

Mark Taylor and Robert "Bo" Maryyanek put forth an idea for a "Hot Topic's" panel board type discussion with a moderator and follow up questions from the audience for next year's conference. This was well received by the group and will be further explored. Topics to consider:

- How are you handling remote control units for buckets and line trucks at your Company?
- Work methods/procedures associated with 600-amp dead break elbows in pad mounted switchgear.
- Journeyman Lineman refresher training: does your Company do it? Who does it? Trainer? Engineers? Topics covered? How long is it?
- Triple single viper applications and work methods at your utility
- Training millennials to be effective workers
- Do you train contractors at your utility? What kind of training do you provide? Do you do assessments? Can they switch or just hold permits?

Jeff Pickford of SCE suggested to the group would like to have Brady Hansen return to speak on the progress of EWWBNA.

Thomas Van Hoon of Portland General electric offered an Equipotential grounding video that is currently in production for his Company.

Robert" Bo" Maryyanek discussed the recent and upcoming by-law changes:

- Vendor Chairperson role has now been added- Scott Baughn (IRBY) will fill it.
- He will be adding history of previous venues, sponsors and board members.
- IUSTA to change their structure to a board of individuals and move away from chairman/secretary structure...

Mark Taylor asked the group for a volunteer for assistant secretary.

Robert "Bo" Maryyanek asked the group for a volunteer for a co-chairman.

Scott Baughn of IRBY asked the group for vendor suggestions for next year. Please have them contact Scott as early as possible as vendors were turned away this year.

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Mark Taylor will email a thank you letter to you for coming to the conference that you can present to your leadership.

Assigned table seating was suggested to mix folks up and make new contacts day 1 and day 2 for 2019

Closing comments and meeting adjourn at 4:30pm

Any proceeds from this conference will be donated from Irby to the Fallen Lineman Organization

Patrick O'Brien –Recording Secretary, IUOTA

August 22, 2018

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