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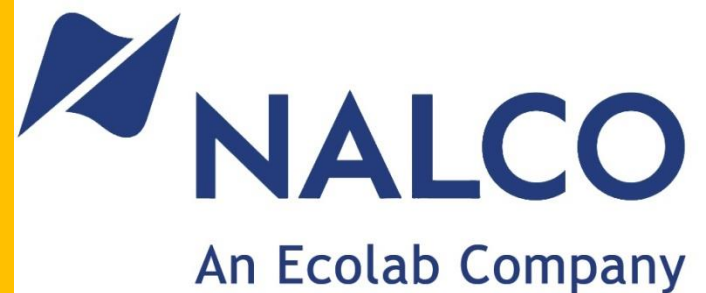
## Executive Members

As of April 2020

<b>Past President</b>	Jim Reid, PE
<b>President</b>	David Horne, PE
<b>1st Vice President</b>	Clayton White, PE
<b>2nd Vice President</b>	Ryan Hobb, PE
<b>Secretary</b>	Josh Surette, PE
<b>Asst. Secretary</b>	Sarah Lumsden, PE
<b>Treasurer</b>	Taylor Bezanson, PE
<b>Auditor</b>	Jim Reid, PE
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<b>Area Director</b>	Blair Saulnier, PE
<b>Provisional Area Director</b>	Earl McMullin, PE
<b>Area Rep.</b>	Rick Deveau, PE Jude Rankin, PE Daniel Wagner, PE
<b>Warden</b>	Dave Pickering, PE
<b>Asst. Warden</b>	Graham Fortune, PE
<b>Student Representatives</b>	Sarah Lumsden, PE Shelby Wyatt
<b>Legislative Comm. Chair</b>	Jude Rankin, PE
<b>Newsletter Comm. Chair</b>	Ryan Hobb, PE
<b>Educational Forum Chair</b>	Josh Surette, PE

WEBSITE: [nipe.ca/branch/nova-scotia/](http://nipe.ca/branch/nova-scotia/)

## Event Sponsors





## Annual Education Forum

November 14 & 15, 2019

Thus, marks another annual Power Engineers and Plant Maintenance Educational Forum. The event drew over 80 in attendance plus a large list of presenters and tradeshow hosts, at our new location in Burnside, NS, The Best Western.

Given the success at our new location and the hospitality of our conference hosts, we will most likely be booking again at this venue for the 2021 event. With that, we would like to say thank you to the hotel staff whom managed to put up with us throughout this change-over and to plan for a much more successful campaign at the next one.

We would also like to extend our thanks to all of our tradeshow speakers/presenters, for without them, there would be no Educational Forum:

Jim Muzzerall	NSCC
Don Ehler	Technical Safety
Jeff Dolan	Technical Safety
Gail Kelly & Michael Little	Team Works
Jamie Swindells	Technical Safety
Suzanne MacDonald	Emera
Warren Rodgers	Emera
Donald Hartt	Occupational Health & Safety
Bob Clarke	PanGlobal
Gail Keeping	Technical Safety
Scott Boudreau	Heritage Gas
Sarah Mitchell	Efficiency NS
Blair Saulnier	SC Delong Sales
Kevin Dean	HRM
Phil Reid	Swagelok
Danielle Elias & Ken Oguizie	Diversity & Inclusion

*Around 80 people are in attendance sitting in on Gail Keeping's presentation on "Pathways to Compliance"*  
- Technical Safety, Dept. of Labour and Adv Ed

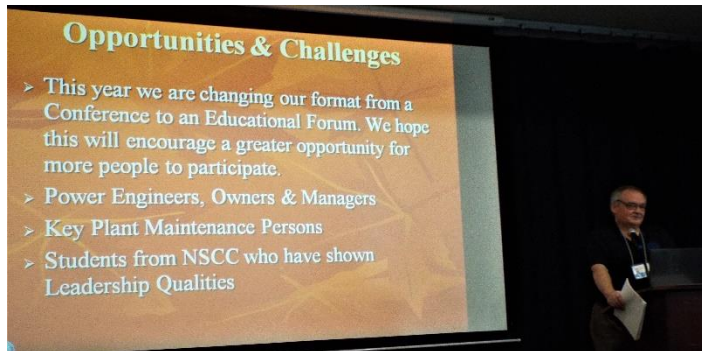
And of course, a big thank you to our Sponsors and Tradeshow Hosts who not only helped financially but also provided representatives and kiosks from their companies for furthering the education and networking:







## Presentations



The IPE's own and Educational Forum Committee Chair, **Danny Wagner, PE**, kicked off the day with the lay-down of what to expect through the 2019 Forum including updates to the annual event and special mentions.



Up next was **Jim Muzzerall**, academic chair of the Nova Scotia Community College. Jim woven together for us information on NSCC's role on the education of tradespersons and power engineers as well as some of the challenges that we are facing today along with current statistics.

Among his presentation was information regarding the numbers of students enrolled in-class and online, bringing attention to second class courses online. Another mention was brought up about CO-OP positions that could lead to valuable company incentives as well as deepening practical application and strengthening industry connections for the student.



Following Jim was **Jeff Dolan**, executive director of Technical Safety at DOLAE. He covered multiple topics including harmonization and mutual recognition in power engineering across Atlantic Canada and the upcoming Technical Safety Advisory Board (TSAB) which is to "Provide advice to Minister and Division on industry concerns, emerging issues, regulation, safety and industry best practices."

Along with his presentation, there was also discussion among the upcoming Apprenticeship and Trades Qualification Act taking over sometime this year in 2020. Some of the pros to this have been mentioned to include transparency and being better equipped in handling certification.



**Donald Ehler**, chief inspector of Technical Safety in DOLAE would follow with a review of the examination results as to date during 2019 for the province of Nova Scotia.



Pertaining to just Nova Scotia, pass rates for first, second, third, fourth and refrigeration were 47.5%, 48%, 79.4%, 70.2%, and 81.3% and certificates issued: 2, 16, 69, 63, and 13 respectively. This trend seems to be relative to previous years with little change other than the exception of second-class pass rates which used to trend in the mid 60's.



Proceeding with the conference, **Michael Little**, employer engagement specialist with Team Works, would speak to us regarding succession planning. He proclaims with future trends in the market condition over the next 10 years that job positions opening compared to new power engineer and plant maintenance work force graduates, there will be a 1,400-person gap, falling short of employees to fill these future positions.

Michael would then educate us on hiring the right person to keep, train and turn them into a loyal teammate, along with very insightful information on recognizing potential and performance and how to blossom that even further.



Taking the stage next, **Jamie Swindells, PE**, boiler and pressure equipment inspector at DOLAE presents an interactive exercise for everyone involving a possible accident and investigation scenario.

In the following discussion, he would emphasize on the uses of the Occupational Health and Safety Act, specifically section 13, which outlines details that should be addressed in your plant procedures to overcome such stressful events. Next would be how to prepare for an investigation and the steps leading up to the inspector's role, outlined in section 14. Ending his presentation, he leaves us with the quote "failing to prepare = prepare to fail".



Next up on the tour is **Suzanne MacDonald, P.Eng, PMP** with Emera. Suzanne's topic covers oil tanks, piping, dykes and berms with accordance to legislation and mandatory inspections, testing and maintenance. Speaking specifically on Petroleum Management Regulation, Activities Designation Regulations, Nova Scotia Standards for the





Construction and Installation of Petroleum Storage Tanks, and Environment Emergency Regulations.

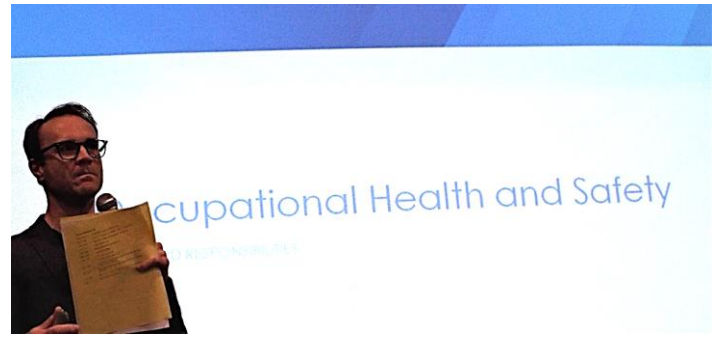
The presentation was filled with plenty of useful information that could not be properly summarized, however, one thing that could be highlighted is: What is a reportable spill? If in a watercourse, all spills must be reported. If land based, non-contaminated used/non-used oils above 100L, contaminated used oils above 5L, and PSB contaminated oil (>50ppm) any amount shall be reported according to regulations and acts.



**Warren Rodgers, P.Eng, CMRP**, also with Emera, coinciding with Suzanne's demonstration, will continue on the show with a discussion into the best maintenance practice types of NDT of tanks, steam lines, dykes, etc.

Warren discusses regulations in accordance to Petroleum Storage/Piping Management and how they have not really changed since 1995 but industry should try to do better than those anyways; To increase the efficiency of the regulations as the original regulations were developed for gas stations (i.e. old underground tanks). Emphasis is placed on Risk Based Inspection Programs (RBIs) and updates and revisions to Petroleum Storage/Piping Management at Nova Scotia Power.

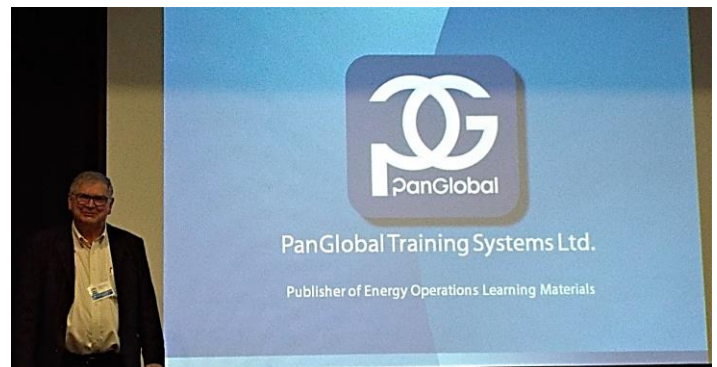
An excerpt from his presentation slides would include some of *the changes* they are making at NS Power, ***"Previous standard (TMP 11) last revision 2011 based on 1996 revision, reporting data and accessibility for organization/regulator, long term risk knowledge managed through predictable and repeatable testing and management, RBI program replacing outdated procedures and programs, and higher-cost, less-efficient management models."***



Stepping in for Occupational Health and Safety is speaker **Donald Hartt, CIH**, with discussion on the role and responsibility of OHS and safety goals.

Emphasis was given to implementing an Internal Responsibility System (IRS) which includes shared responsibility among workforce parties to the full extent of the party's abilities. This ***"includes a framework for participation, transfer of information and the ability to refuse unsafe work"***.

A key point taken from this is the importance of paperwork as it establishes due-diligence. If it is not written down, it really didn't happen. It also assists in preventing work stoppages, provides a medium to transfer information, a reference point for work procedures, and assists with the health and safety programs already in place.

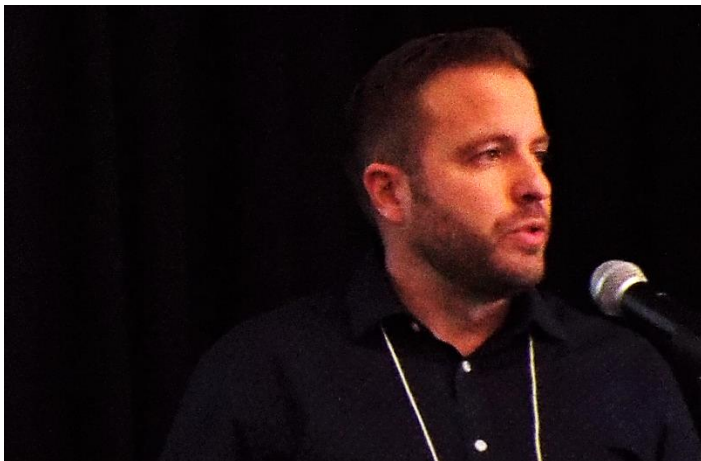


**Bob Clarke, CEO**, president of PanGlobal Training Systems stepped up next to give us an update on online books/learning and the progress of course material updates, such as revision of 3<sup>rd</sup> class and possibly 1<sup>st</sup> class books, similar to the changes made in 4<sup>th</sup> class material. He also invites you to join their Facebook group for updates, as it is very active at:

<https://www.facebook.com/PanGlobal/>



Proceeding on the next day of events, **Gail Keeping**, director of inspections and compliance with Technical Safety, DOLAE, spoke with us on the topic of '*Pathways to Compliance*', which handles topics on setting requirements to follow and to achieving them with promoting compliance, verifying compliance, and enforcing those requirements.



Next up, was **Scott Boudreau** of Heritage Gas and his discussion of natural gas challenges and opportunities. Heritage Gas is the Natural Gas Utility for the province of Nova Scotia and since start-up in 2003, energy delivered has grown to be that of 22% of Nova Scotia Power and an added GDP value of \$347M, \$239M of which in Nova Scotia alone.

Through Scott's presentation, he gave other statistics such as annual carbon savings equivalent to about 55 wind turbines or taking 48,000 cars off the road.

Other natural gas news included the foretelling of gas prices expecting to drop as infrastructure payments settle out.

Although Nova Scotia offshore production, such as Sable Gas and Deep Panuke, have pretty much all but run dry, there are plenty of other long-term plans in the works including importing natural gas from Utica Shale and Marcellus Shale, which have no end in sight as of yet. Other key points highlighted methods of renewable natural gas from bio-gases and introducing hydrogen into the gas supply from other renewable energy sources like solar and wind power.



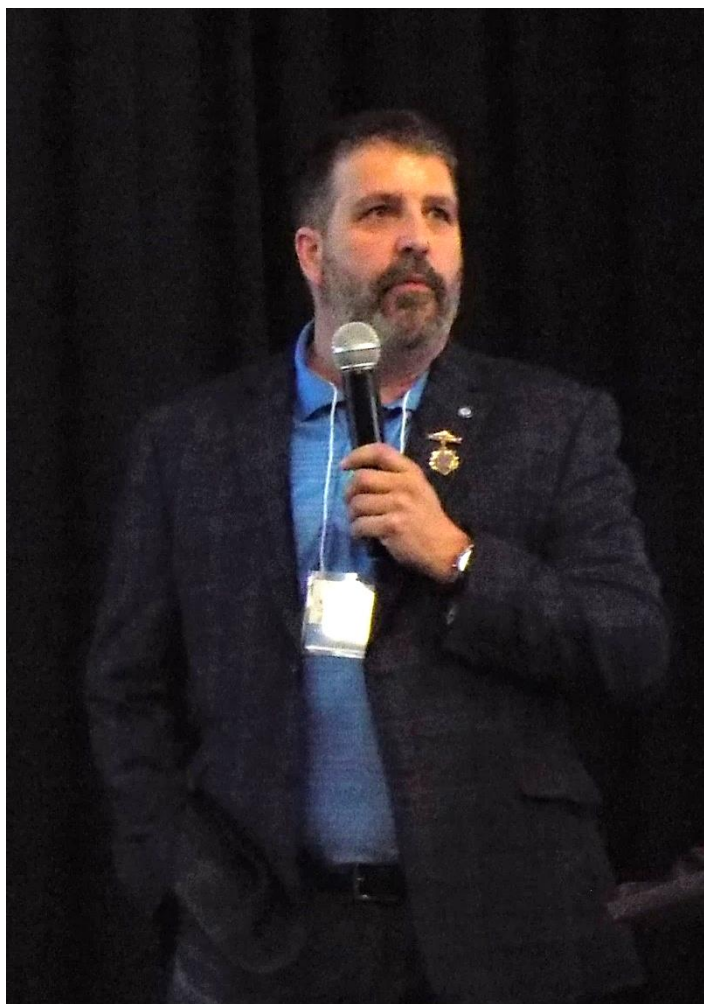
Speaking with us next on the agenda was **Sarah Mitchell** with Efficiency Nova Scotia (ENS) in discussion on '*Efficiency Opportunities for the Industrial Sector*'. This presentation would be a real eye-opener to some as ENS, funded through Nova Scotia Power, will help fund projects in increasing power consumptions efficiencies, thereby lowering the power bill as well as maintenance costs.

Some means of aid and incentives would include: feasibility study reports, incentives and partnership with ENS to help mitigate risks, and program flexibility. There also are energy rebates from anywhere between \$2 to \$8,000.

Also included in Sarah's presentation was how ENS have implemented a couple of programs named Energy Management Information Systems and Strategic Energy Management with the former being a more direct monitoring-type program and the latter to involve a longer-term style of adjustments and cost savings.

ENS is always willing to perform specialized training sessions and events, available upon request.





National President of the Institute of Power Engineers, **Blair Saulnier, PE**, will take center stage next to give us an update on the going-on at the national level, including the new IPE website launch, IPE membership numbers, channel partners, regulatory changes, and upcoming education forums and AGMs across Canada worth noting.

Who may become our channel partners? IPECC (Interprovincial Power Engineering Curriculum Committee) and the Canadian Boiler Society as we share very similar interests and goals, and we already support each other in various ways. So, it only makes sense to buckle together.

There were some regulatory changes in various provinces across Canada but the dominant ones were felt over in British Columbia where all steam plants now need to have a plant registration in addition to the equipment being registered and all

power engineers must be registered with TSBC in order to legally work in a plant in British Columbia.

In the Maritimes, nothing more to report other than the harmonization of the Technical Safety Act for the Maritime Provinces as was discussed in Jeff Dolan's speech.

Some of the upcoming education forums and the next AGM date can be seen at the end of this newsletter.



**Ken Oguzie**, director of Africa Canada Trade and Investment Venture (Left) and **Danielle Elias**, a senior consultant of Diversity and Inclusion at Government of Nova Scotia (Right) stood up afterwards to throw the spotlight on 'Diversity in the Workforce: Diversity & Inclusion'.

Their speech consisted of a compelling stand point that left many in the audience with new attitudes and ways to look at diversity. To know your biases, how to recognize them so that you can set them aside when making decisions or improving your actions, and also how to deal with other's biases.

Preluding to some of this was their definition of inclusion, taken from their presentation, ***is the achievement of a work environment in which all individuals are treated fairly and respectfully, have equitable access to opportunities and resources, and can contribute fully to the organization's success.*** That is a large step forward from plain old integration methods in ways to gainfully employ equity among our employees.



And ending our 2019 Educational Forum presentations is **Phil Reid**, Training and Technical Support Manager with Swagelok Atlantic Canada on 'Tube vs Pipe – Which is Best for Steam & Condensate'

Phil would speak mostly on the pros of using a tubing arrangement versus piping such as much more laminar flow, less fittings meaning less leaks, less equipment involving less steps, easy installations, no hot work (less paperwork and costs), etc. and how most steam piping and condensate piping is CRN and TSSA compliant.

Further into his presentation, he enlightens us on the benefits of stainless steel tubing in general versus the average piping arrangements regarding minimal wall thicknesses being much thinner than high pressure steels for the same MAWP. Provided in his presentation were charts illustrating this and comparisons of how the tube fittings offer similar vibration resistances to that of welding (According to ASME PVP-62).

He will end his presentation noting that although material costs for traditional piping methods are cheaper, with labour costs included, a company could save up to 74% in costs by switching to a tubing method for a particular project.

## Recognition Awards

As per tradition, ending the first day of the conference, recognition is given to those who have successfully completed all of their training and obtained their first-class power engineers designation, and to those who have demonstrated serviceable achievements in the power engineering field.



**The Recognition of Achievement of 1<sup>st</sup> Class Certification Award**, served by **Blair Saulnier, PE**, to **Gaston Rejean Viau, PE**



**The Recognition of Achievement of 1<sup>st</sup> Class Certification Award**, served by **Blair Saulnier, PE**, to **Steven Richard Sampson, PE**





**Recognition of Past Branch Presidency for the Year of 2017**, for the Maritime Branch awarded to **Jude Rankin, PE** (left) by **David Horne, PE** (right)

## Volunteers

A big warm thank you to the 2019 Conference Committee and volunteers who, most of which, will begin planning for the 2021 Educational Forum beginning in the first month of the new year.

Shawna Publicover  
Jamie Swindells  
Blair Saulnier  
Josh Surette  
Rick Deveau  
Graham Fortune  
Jim Reid  
Taylor Bezanson

Danny Wagner  
Dave Pickering  
Ryan Hobb  
Sarah Lumsden  
Clayton White  
Earl McMullin  
Shelby Wyatt  
Dave Horne







## Tradeshow

Again, thank you to our Tradeshow Reps!







## The Banquet

Of course, we need to show off the food. It was amazing and a huge thank you again to the Hotel staff for preparing these delicious dinners, luncheons and deserts for us.







## Swearing-in Ceremony

January 25, 2020

The annual Swearing-In of the 2020 executives for the IPE Maritime Branch took place at the Best Western Hotel Trendz Restaurant located in Burnside this year with about thirty in attendance to witness the inaugural oath. Below is this year's executive listing:

<b>Past President</b>	Jim Reid, PE
<b>President</b>	David Horne, PE
<b>1st Vice President</b>	Clayton White, PE
<b>2nd Vice President</b>	Ryan Hobb, PE
<b>Secretary</b>	Josh Surette, PE
<b>Asst. Secretary</b>	Sarah Lumsden, PE
<b>Treasurer</b>	Taylor Bezanson, PE
<b>Auditor</b>	Jim Reid, PE
<b>Second Auditor</b>	Russ Tyrel
<b>Area Director</b>	Blair Saulnier, PE
<b>Provisional Area Director</b>	Earl McMullin, PE
<b>Area Rep.</b>	Rick Deveau, PE
	Jude Rankin, PE
	Daniel Wagner, PE
	Dave Pickering, PE Asst.
<b>Warden</b>	Graham Fortune, PE
<b>Warden</b>	Sarah Lumsden, PE
<b>Student Representatives</b>	Shelby Wyatt
	Jude Rankin, PE
<b>Legislative Comm. Chair</b>	Ryan Hobb, PE
<b>Newsletter Comm. Chair</b>	Daniel Wagner
<b>Educational Forum Chair</b>	



We would also like to thank the hotel, it's staff, the restaurant, along with the kitchen staff for serving us another delicious meal in accordance with our event and providing excellent hospitality.

## Ceremonial Recognitions, Achievements, and Awards



From left to right, **Rick Deveau, Clayton White, Mike Gillis, and Dave Horne**. Mike Gillis is accepting his achievement in obtaining a **Life-Membership Certificate** for his many contributions and years serving as a positive IPE branch member.



**Josh Surette** in accepting his **Service Award – Member of the Year** for his above-and-beyond, professional work involving the heavy role of secretary among the executive branch. Among his duties, Josh is a part of the Educational Forum Committee and organizes meetings & events.





**Ryan Hobb** in accepting his **Service Award – Member of the Year** for his work as warden among the executive branch. Among his duties, Ryan writes up newsletters, plans out the annual Lobster Dinners, and as of 2019 has taken over the Tradeshow portion of the Educational Forum.



**Earl McMullin** in accepting his **20-Years of Excellent Service Certificate**, Presented by **Dave Horne** and **Clayton White**



**Clayton White** in accepting his **5-Years of Superb Service Certificate**, Presented by **Dave Horne**



**Blair Saulnier** in accepting his **20-Years of Excellent Service Certificate**, Presented by **Dave Horne** and **Clayton White**



**Jude Rankin** in accepting his **30-Years of Excellent Service Certificate**, Presented by **Dave Horne** and **Clayton White**





## Bedford Waste Water Facility Tour

March 4, 2020

### General Meeting Minutes

**Date:** March 4, 2020

**Attendance:** Josh Surette, Dave Horne, Shane Todd, Sarah Lumsden, Taylor Brezanson, Jim Reid, Rick Deveau, Cameron MacDougall, Daniel Wagner

**Halifax Water Bedford Waste Water Facility Tour**  
**18:30 – 20:10**

**General Meeting Call to order:** 20:15

#### **New Business:**

- Discussion on upcoming changes in apprenticeship and review of questionnaire Dave Horne drafted to survey industry on potential apprenticeship program improvements. All approved, Dave will finalize letter and Josh will sent out to membership via mailchimp.
- Jim & Taylor have prepared the 2019 branch finance audit and Rick will deliver to Russ

Thanks to Nigel Crouse for taking the time to show us his plant and Daniel Wagner for organizing the tour!

**Meeting Adjourned:** 20:35







## Covid-19

As of April, 2020

We would like to take a portion of this newsletter to re-post a section outlining a 'Best Practices' statement from the National Branch's website pertaining on some helpful information regarding Covid-19 (released March 23<sup>rd</sup>).

*While most Canadians can work from home or just stay home to protect themselves from contracting COVID-19, Power Engineers who work in industries that must operate on a 24hr basis cannot. The IPE fully supports the recommendations of the WHO for keeping individuals safe and we suggest the following "Best Practices" for those who work rotating shifts.*

**WHO Recommended Best Practices**  
**(<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/advice-for-public>)**

***Actions to be taken regarding scheduling.***

***Change shift schedule to minimize worker interactions between shifts. This includes grouping maintenance teams in small teams and schedule so that they have minimal physical interaction between the teams. The longer the shift pattern ie. 7 on 7 off vs 2, 2, 3 or a modified 4, 5 is better as this reduces the frequency of physical contact between replacement shifts. The longer shift pattern also makes for an assessment period for those who are off and then need to be quarantined. The longer shift pattern will also ensure that if a working team does contract COVID-19 while on shift, there is a team healthy for immediate replacement.***

***Between shifts.***

***Have the cleaning contractor do a through cleaning between shift crews. Have the cleaning contractor provide the employees how to clean properly between shifts changes and how often this is to be done during shifts as they should be the experts in this. Having the cleaning come in to do a deep cleaning of the work areas between group changes ie. A and B shift have completed their 7 or longer shift period and C and D shift are coming in, this will provide a break between these groups to prevent cross-contamination if one of the groups has been compromised.***

***The Directors and Officers of the IPE wish all the best to those who continue to work supporting our economy.***

- <http://www.ipe.org/news-items/news-item/2020/03/23/covid-19-best-practices>

As pertaining to social distancing, all physical meetings at the national and provincial levels have been postponed until it is safe to resume regular duties, as will be instructed by our governmental electives.

As of April 28<sup>th</sup>, 2020, it has been decided unanimously among the Education Forum Committee members to postpone the event until 2021.

Any meetings required for the continuation of IPE progress are to accommodate social distancing in the forms of video conferences, group chats, email, etc.

We must all do our part in flattening the curve and to try and get our country back to normal as soon as possible. It only takes an arrogant few to extend this emergency by weeks or perhaps months.

Also, we would like to express our concerns to everyone that has to continually work and be diligent in maintaining their health through this troubling time. Our thoughts go out to everyone and their families.



## Upcoming Events

All Dates are Subject to Change. Please Refer to our Website and Facebook Page Leading up to Events.

Due to the Covid-19 Pandemic, many tours, forums and meetings have already been cancelled in order to maintain self-isolation and social distancing protocols set forth by our governing bodies. Therefore, any dates said herein are tentative and will be confirmed among Facebook and E-mail (to those whom are on our e-mail listing) communications.

**There are no tours or general meetings set to take place in the months of April, May or possibly June.**

## Maritime Branch Events

### 2020 Annual Lobster Dinner

**The Shore Club, 250 Shore Club Rd.,  
Hubbards, NS**

Saturday, July 25<sup>th</sup>, 2020

Pandemic allowing, and lobster season permitting, we will be holding our next lobster dinner at the Shore Club once again! Please submit your attendance and plus one to the RSVPs that will be sent out prior to the event.

### 2020 Annual Golf Tournament

**Greenwood Golf Club, Thunderbird Way,  
Greenwood, NS (Most Likely)**

August, 2020

Nothing set in stone yet but typically we aim for a Wednesday in the middle of August at the Greenwood Golf Club. If it is to show off your pro-hits, or to try for the high score in gutter balls, this just-for-fun golf tournament is a great time to socialize and have fun with your fellow IPE members, contractors, friends and co-workers.

## NSCC Student Meet & Greet

**Strait Area Campus, 226 Reeves St, Port  
Hawkesbury, NS**

**Akerley Campus, 21 Woodlawn Rd,  
Dartmouth, NS**

September, 2020

Another attempt to have two “meet & greets” this year: One at the Akerley Campus and another at the Strait Campus. We would like to encourage all members to make an attempt attending these social events and meet the new upcoming talent of Power Engineers. If interested, please email [ipe.maritimes.mailing@gmail.com](mailto:ipe.maritimes.mailing@gmail.com), as we will try to accommodate everyone’s times and driving arrangements the closer we get to September.

## Scotia Bank Center Tour

**1800 Argyle St, Halifax, NS**

October, 2020

Alas, another brick laying in the yard that has not been placed in concrete yet. However, our hopes remain high for by this time, the pandemic restrictions should loosen its grip on Nova Scotia (according to various medical panels, I hope not to eat these words). More information will be released as we approach the date.

## 2020 Annual Power Engineers and Plant Maintenance Education Forum

**Best Western Plus Dartmouth Hotel & Suites,  
15 Spectacle Lake Dr, Dartmouth, NS**

~~November, 2020~~ **(POSTPONED TO 2021)**

Once known as the ‘Chief’s Conference’, the Education Forum has been **cancelled** due to the stresses of the Covid-19 Pandemic. As of April 28th, 2020, it has been decided unanimously among the Education Forum Committee members to postpone the event until 2021 due to the uncertainty of lockdown measures and the costs that would be associated with it. We are very sorry that it has had to come down to this and we hope to see you next year.





## Other Events & Forums

### The Prince Edward Island 1<sup>st</sup> Chief Engineers Conference

May 2020 (POSTPONED TO 2021)

Has been postponed and will be re-attempted for next year of 2021.

### Vision 2020 and IPE National AGM

September 18<sup>th</sup>-19<sup>th</sup>, 2020

The annual National IPE General Meeting is still set to take place but it is advised to stay up to date through their website at:

<https://nipe.ca/>

### IPE Ontario Education Forum and Power Engineer Round Table

Four Points by Sheraton, Toronto Airport,  
6257 Airport Road, Mississauga

October 21<sup>st</sup>-23<sup>rd</sup>, 2020

Still on as of now. For more information, please visit:

<http://www.ipe.org/education/ipe-ontario-education-and-ed-forum>

### Alberta 6<sup>th</sup> Annual Chief Power Engineers Education Conference

Delta Hotels by Marriott, Edmonton South  
Conference Center

October 29<sup>th</sup>, 2020

For more information, please visit ABSA's website at:

<https://www.absa.ca/>

*Note from the Editor:*

*For all of those who wish to submit an article into the quarterly newsletter/website or would like to add an event pertaining to Power Engineering or the IPE, please feel free to contact us at:*  
[ipe.maritimes.mailing@gmail.com](mailto:ipe.maritimes.mailing@gmail.com)