



Contents

- 01: Executive Members List & Event Sponsors
- 02: Lobster Boil
- 03: Golf Tournament
- 04: Other News: The BC Ammonia Investigation
- 05: Upcoming Events

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Executive Members

As of October 2018

Past President	Blair Saulnier, PE
President	James Reid, PE
1st Vice President	David Horne, PE
2nd Vice President	Jude Rankin, PE
Secretary	Clayton White, PE
Treasurer	Taylor Brezanson, PE
Financial Reviewers	Michael Gillis, PE Brian Lavers, PE
Area Rep.	Richard Deveau, PE Blair Saulnier, PE
Alt. Area Rep.	Danny Wagner, PE James Reid, PE Clayton White, PE
Warden	Ryan Hobb, PE
Asst. Warden	Earl McMullin, PE



2018 Event Sponsors





Lobster Boil

The Annual IPE Lobster Boil, hosted at The Shore Club



This year marked the first time that the IPE Annual Lobster Boil was to be held in a much more controlled environment, such as **The Shore Club** in Hubbards, NS. In the past, we would normally volunteer an unsuspecting IPE member to host and take on the challenges of having it in their backyard/home. With this new setting, we were able to relieve all of those stresses and left it to the professionals.

The Shore Club did not disappoint! And with that, we would like to express our sincere appreciation and gratitude.



The staff was very courteous and patient with us among the fully booked venue. They were continuously filling up the buffet of a dozen or so different salads, along with managing to keep the mussel bar full to the top with fresh, steaming mussels, as well as maintaining a clean, friendly atmosphere. All the while taking names, orders, and serving the hundreds of other patrons present.

It is because of these ideal services, it was suggested with an agreed consensus among the members present at the dinner, to carry forward having our next lobster outing at the same location for 2019.



Of course, all suggestions are still welcomed. If there may be another location to have such a dinner, or if any IPE member wishes to take on the Lobster Boil excursion at their home, we would gladly like to hear from you. Please speak with Jim Reid, our current IPE branch president or any of the other executive members.

For executive contact information, please email:

newsletter@ipemaritimes.com

Also, we try to host some sort of a General tour/meeting monthly. This is a good opportunity to come out and voice your suggestions and concerns, as well as interact with the other members. ***The IPE is dedicated to all of it's members and power engineers***, and would be very happy to try and accommodate.



Golf Tournament

The Annual Golf Tourney, held at Greenwood Golf Club

About 23 members and associates were in attendance for the Annual IPE Golf Tournament, which was held once again at the **Greenwood Golf Club** with teams made up of 4s and one team of 3.



Of the 6 teams that were made up, points were tracked on the scorecards based on the best one of the four (or three) person's stroke count for that particular hole. Based on the *traditional set of golf rules*, the stroke count is then added up at the end of the 18 hole course, in which par for this competition was 72.

With that being understood, our winners for this year's competition scored with **3 under par** and this achievement is shared among:

- **Dave Livingstone** Dept. of National Defense
- **Brian Leblanc** Graybar Canada
- **Rick Deveau** Dept. of National Defense
- **Lindsay Sutton** Dept. of National Defense

Two teams shared a close second place to the winners with a score of 2 under par, with the three other teams scoring at a -1, +1, and +8 finish.

*Golfer 1: Are you a scratch player?
Golfer 2: I sure am. Every time I hit the ball,
I scratch my head and wonder where it
went.*

Nothing during the game could have been blamed on the weather. It was more than ideal with morning temperatures in the low 20°C range, going up to about 28°C in the afternoon, with slight south-westward winds and sunny skies.



Even so, it is a challenge in itself to be upset at hitting your ball into the bunkers with the scenery of this course around you and having good friends to share it with.

And in the spirit of upcoming Halloween!

Where do ghosts play golf?

On a golf corpse.

HOLE	1	2	3	4	5	6	7	8	9	OUT	10	11	12	13	14	15	16	17	18	IN	TOT	HCP	NET
WHITE	346	387	174	495	282	377	517	140	295	303	354	153	467	164	324	497	445	369	378	315	1616	4	
HCP	10	6	14	4	12	8	2	18	16	13	17	5	15	11	3	1	7	9					
PAR	4	4	3	5	4	4	5	3	4	3 ³⁶	4	3	5	3	4	5	4	5	4	4	3 ³⁶	72	
Dave	3	4	5	4	4	5	3	4	3	3	3	3	3	4	4	5	4	4	4	3	69	3	
Brian																							5
Rick																							
Lindsay																							
RED	317	407	163	411	274	348	472	127	285	280	344	142	418	151	308	401	437	357	365	2923	5727		
HCP	10	6	16	4	12	8	2	18	14	9	17	3	15	13	1	5	11	7					
PAR	4	4	3	5	4	4	5	3	4	3 ³⁶	4	3	5	3	4	5	4	4	4	4	3 ³⁶	72	

PLEASE NOTE: PACE OF PLAY IS 2 HOURS ON EACH NINE.

* The Greenwood Golf Club logo and Golf Course Photo were cited from ChronoGolf, Greenwood Golf Club, at <https://www.greenwoodgolfclub.ca>, on the 22 of September, 2018



Other News

[The Technical Safety BC investigation report of the Fernie Memorial Arena ammonia release incident](#)

The BC Ammonia Investigation

October 17, 2018 marks the one year passed since the death of three men, who were involved in an emergency repair of an ammonia-refrigeration cooled brine chiller for an ice rink in Fernie, British Columbia. In memory of those gentlemen who lost their lives, from left to right, **Wayne Hornquist**, Fernie's chief facility operator, **Lloyd Smith**, Fernie's director of leisure services, and **Jason Podloski**, a refrigeration technician with contractor CIMCO Refrigeration in Calgary.

A 41 page investigation report was completed on July 25, 2018 by *Technical Safety BC*. It addresses all the information leading up to the incident, the laboratory analyses conducted afterwards, interviews, management practices, industry worker qualifications and training materials, and examination of such information. It is highly recommended to peruse the report for all those involved in the maintenance and operations of refrigeration plants as we try to move on and learn from this incident.

Avoidable events have taken place leading up to the incident, such as starting the equipment up after a seasonal shutdown with knowing that ammonia was entrapped in the calcium chloride brine solution, indicating that there was a leak in the chiller unit. Due to this, alarms were set off in the mechanical room, shutting down the refrigeration system. Pressures then rose inside the curling brine system which ultimately led to the failure of a coupling immediately releasing about 9 pounds of ammonia into the vicinity.

The three identified contributing factors:

- I. Failure of refrigeration system equipment***
- II. Operational decisions that contributed to the incident***
- III. Impact of inadequate ventilation and discharge systems following the incident***

- ***Technical Safety BC***

It was estimated that ammonia concentrations in the room reached in excess of 20,000 ppm, where the **TWA** is 25 ppm, the **STEL** is about 35 ppm, and full face respiratory equipment to be used for



concentrations of up to 250 ppm, according to the American Conference of Governmental Industrial Hygienists (ACGIH). Ammonia is generally considered potentially lethal at concentrations above 500ppm.

TWA = Time-Weighted Average

STEL = Short-term Exposure Limit

Emergency responders were to then open up an emergency dump valve, which would release approximately 700 lbs. of ammonia into the air over the course of a few days. The nearby residents were issued to evacuate their homes for the course of a week as a state of emergency was declared by the city in that area.

So what does this mean for us?

Shortly after the incident, plenty of refrigeration plants throughout Canada adapted their own refrigeration safety regulation changes to increase safety and avoid any incidents such as this one from ever taking place. This was further enforced by screenings, audits, and new standards set by the **Occupational Health and Safety** (OH&S) divisions.

It is most likely that we will see more changes in inspection intervals and other regulations, such as those set out in the **Canadians Standard Association** (CSA), to improve upon those which already exist. Companies may also like to implement even stricter rules than those set out by their jurisdiction or provincial standards, to ensure safety.

With joint efforts, additional training and specialized education subsequently surfaced, one of which was held in Prince Edward Island during April of this year. All curling and rink operators were invited to attend this half-day course to participate in refrigeration awareness, machine operation instructional presentations, and to discuss the new upcoming codes and policies. Aside from the Fernie ammonia leak, the Pownal Sports Center of PEI had a building evacuation also caused by a leak in April of 2017, which helped prompt the training courses there.

For the full investigation report, please visit:

<https://www.technicalsaftybc.ca/fernieincident>

Upcoming Events

IPE Annual General Meeting

October 27, 2018, 8:30am to 12:00pm
[Mississauga, Toronto, Ont.](#)

This year's AGM will be the standard meeting of topics in our field and the institution. Any member can attend the meeting or call in to the conference phone number which will be updated on the newsletter as well as on the NSIPE site. www.ipemaritimes.com

Scotia Bank Center Tour

Near end of October (will be updated by end of week)
1800 Argyle St, Halifax, NS

Join us in this tour to visit the refrigeration side of the Moosehead's hockey rink. All are welcome!

Chief's Conference

November 7, 12:30pm to November 8, 3:30pm, 2018
Doubletree by Hilton, 101 Wyse Rd, Dartmouth, NS

Annual Chief's conference held at the same location as last year. An event to discuss power engineering topics as well as dinner and a trade show. If any chief has not received his/her invitation by mail, please contact Shawna Publicover at DoL.

Maritime Executive Branch Elections

Tentatively November 22, 2018 (Will be updated)

All IPE members reserve the right to vote for their executive members, please join us in this annual get-together. Finalized date to be confirmed.

Note from Editor:

For all of those who wish to submit an article into the quarterly newsletter or would like to add an event pertaining to Power Engineering or the IPE, please feel free to contact us at:

newsletter@ipemaritimes.com