



# Institute of Power Engineers

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Cover picture Nova Scotia coal shipment

Editor George Reid

Fall 2010

## National Newsletter



## 2010 National Convention

[www.nipe.ca](http://www.nipe.ca)



## Message From the President



Greetings Power Engineers:

For 70 years, the Institute of Power Engineers has strived to be the unified voice and image of the Power Engineering Profession. The Institute's efforts to promote professionalism, training and safety are clearly respected and valued by its members.

We work positively in the workplace and with jurisdictional authorities to be part of safety initiatives. We continue to participate in Curriculum review and promote education and training for safety in our plants. We are well trained and in demand.

Our office manager, Fred Billard, is in the process of compiling the history of the IPE in Canada. If you receive a request from Fred for information for this project, your cooperation and assistance would be appreciated.

I wish to thank the Executive Committee, members, organizers and guests of the 2010 National Convention and AGM for their participation. Power Engineer Synergies Promoting a Greener Future was the theme of this year's conference. It was a rewarding and enjoyable convention. Also, I want to congratulate the winner of the President's Cup for 2009, the Winnipeg Branch. Our deepest gratitude is extended to Chuck Puttenham, Assistant National Secretary, upon his retirement from many years of faithful service.

Keep warm and happy in the coming year.

Jude Rankin,



## 2010 Nova Scotia Chief's Conference

Holiday Inn, Dartmouth, NS

After the success of last year's Chief's Conference, there was an increase in response to this year's annual conference. In order to accommodate our growing numbers, the venue was changed to the Holiday Inn in Dartmouth.

Also this year, a trade show was incorporated into the two-day event. A total of 21 companies attended the trade show, which took place on day two of the conference.

Presentations at this year's conference included:

SOPEEC & Registrar's reports by Joe Simms, L&WD

An update on the Power Engineering Technology Program at NSCC by Tina Kelly,  
NSCC

The new Administrative Penalties Regulations under OH&S Act by Vince Garnier,  
NSOHS

Review of the new regulations under NS Technical Safety Act by Dave Wigmore,  
L&WD

Incidents and Inspection findings by Joe Simms, L&WD

A number of suppliers from the trade show gave technical presentations on their company's products and services; many of the PowerPoint presentations can be found on the Nova Scotia IPE website, [www.ipemaritimes.com](http://www.ipemaritimes.com)

We would like to thank our many speakers, the Holiday Inn, and especially Ernie Clarke for making this year's conference a success.

We look forward to seeing our many friends and associates at next year's Nova Scotia Chief's Conference!

Submitted By  
Neil Oldreive PE



## I P E Annual General Meeting and Convention

The 70<sup>th</sup> Annual National General Meeting and Convention were held at the Four Points Sheraton Airport Road in Mississauga on September 30-October 2. The theme was “Power Engineer Synergies Promoting a Greener Future” and was hosted by the Toronto Branch. The event was a great success, both informative and entertaining.

The Thursday and Friday were filled with seminars, presentations and a trade show. Topics ranged from “Future of Power Engineers” by TSSA and IPE to various methods of better efficiencies by suppliers.

There were social outings in the evenings to Mariposa Cruises and Medieval Times for delegates and companions and trips to Niagara Falls and downtown Toronto for the companions during the days. All provided excellent opportunities to network and enjoy the sites and entertainment of Southern Ontario.

The AGM was held on Saturday morning and was well attended. Along with the business to be completed, there were several awards presented. Winnipeg Branch won the President’s Cup for effective branch management. Mr. Gilles Gendron of the Montreal Branch won the G.A. Andrews Award for work in the education field with his efforts at IPECC conference in Montreal, development of training programs in Quebec and his work translating course material. There was one Life Membership presented to Mr. Dan Trudeau of the Ottawa Branch. Ten Service Awards for 1, 5, and 10 years service were presented as well.

Allan Kelly welcomes everyone



Jude Rankin opens the AGM





## I P E Annual General Meeting and Convention



The two days of seminar covered topics from power savings through new compressor motor technologies to innovative meter concepts. Other presenters covered water treatment, boiler rentals and tube design just to mention a few. The trade show floor had many booths and cool products from cryogenic pipe repair to backup power and cogenerations applications.





## Ottawa Branch

### GreenField Ethanol Johnstown Tour



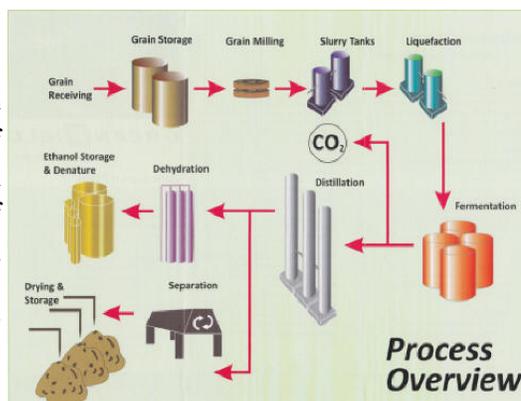
by: Gord Holtrop

September 23, 2010 - By invitation, members and guests of the IPE Ottawa Gatineau Branch met up with us in Johnstown for an evening plant tour at Greenfield Ethanol.

It was evident at the guard-house that this was a great turnout. Host Tom Horvath, Chief Operating Engineer was there to welcome everyone. He began by explaining the plant's process and provided some interesting facts on its capabilities. In preparations for the tour, two groups were formed; the first group led by Tom, and I would lead the second group. As a member of the IPE and 3rd Class Power Engineer at GreenField Ethanol it was a pleasure to assist Tom with this tour.

Tom and I proceeded with each group in showing them the state of the art facility. After more than two years of the plant running, it still looks brand new, as were the comments. The amount of pride that the employees take in the plant really stands out.

Our visitors were guided through the process from the receiving of the corn in tractor trailers; to the ethanol storage and denaturing; to the drying and storage. The efficiency of the heat/energy recovery throughout the plant is recognized by all Power Engineers. Most will agree that the highlight of the tour was in the Energy Centre. There, we met up with on-site operators, Murray Campbell and Craig Dennison, who described the workings of the energy system, taking questions and providing answers.



Finally, everyone gathered in the maintenance shop for a group photo. It was the snapshot that gave proof of a great turn-out. From that point we returned to the guardhouse where IPE Branch President, Gilles Leclair presented Tom and I with IPE mugs in appreciation of the tour. In fitting fashion, visitors each received a Greenfield Ethanol ball cap; closing an enjoyable evening.



## Windsor Branch

All across Canada everyone is feeling the impact of this recession. The Windsor area is not unlike any other area. Windsor is heavily reliant on the automotive industry to support its economy and many workers who work directly in this industry and many others who had spin off employment found themselves having to return to school to be retrained. The St Clair college power engineering program found itself overwhelmed with an influx of mature students hoping to become power engineers.

The Windsor IPE saw this and have tried to support these students by encouraging them to become student members of the IPE and by gearing many of our meeting and tours towards them. After some discussion the executive thought something that the students and some of our members could benefit from would be an employment seminar. The question was, what would be the best way to help? We came up with a plan to invite both employment recruiters and also plant managers and have them give their views on what they are looking for. The employment recruiters focused on issues such as resumes, interviewing techniques, networking and what they see and foresee for the job market. The plant managers gave a very frank presentation on what they were looking for in candidates, how to present yourself, and how to make yourself stand out.

The executive agreed that this was an instance when being an IPE member would give you an edge over non members, therefore this was a members only seminar. Typically the Windsor branch has an open door policy where we welcome everyone, but this would be a chance for members to get more value for their members dollars.

Our philosophy for the seminar was to have open and honest dialogue. We gave the presenters an outline that we wanted to help our members with information regarding resumes, interviewing techniques etc...however the presenters were encouraged to give their own personal views, ideas, and opinions, they had the best first hand knowledge. We also believed that by having both the recruiters and the plant managers this would encompass the whole hiring process.

We were fortunate to have two recruiters come and speak to us John Francis from Theonera Inc and Brad Frazer from the Guildwood Group. The two plant managers were, Robert Fontanini from TransAlta and Dave McGregor from Brighton Beach Power.



**John Francis– Theonera**



**Brad Frazer - Guildwood Group**

An amazing thing happened during the seminar, everyone covered a few similar points. There were many unique ideas and points of view but the similar points that were re-enforced were, how to network, the nomadic nature of our field, and the need for higher licensing and multi-tickets.

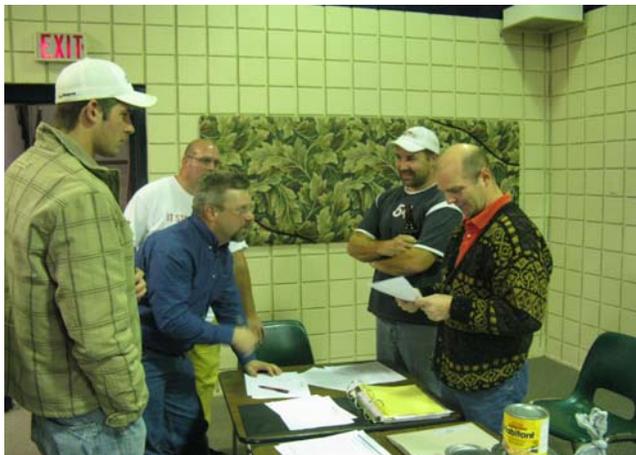
The turn out was excellent with around 60 full and student members coming out with a member coming all the way down from London. The presentations were excellent and well received.

**Robert Fontanini-TransAlta**



**Dave Mc Gregor– Brighton Beach**





**Dennis checking in members**



**Before the seminar started**

The seminar went well and John Francis requested to come back to give a follow-up presentation. This was more of a q and a session. Mr. Francis expanded on networking techniques and resume building. He also gave more frank advice on the employment hunting process.

The Windsor exec feels that this was a timely event considering the economic situation many face and the need that is out there. We will continue to move in this direction where we have member only events to re-enforce why being a member is important and to answer that question “what’s in it for me”.

**John Francis returned**



**John Francis –Theonera**





## Life Stopper

It was graduation time at the college and a fine young guy named Purge Firebox was full of excitement, he had just spent the last two years studying Power Engineering and had propelled himself to the top of the class completing his 3<sup>rd</sup> class and part A of his second class power engineering exams. Purge graduate from high school 5 years ago. He worked on his father's farm steady for 3 years and the last two years part time while attending class full time. This was a great achievement for the good ol' farm boy who was always taking on a lot of responsibilities in his young life and was always wanting to please his employers and instructions by disciplined hard work. His high school sweetheart, Karing Waterhouse, married him one year after graduating from High School and they share a baby daughter who is now 3 years old.

Purge, Karing and daughter were living in a mobile home on Purge's father's farm for the last 3 years. Karing had been very busy juggling being a mother and the bread winner of the family while Purge went to School. Purge and Karing planned on their current living conditions being short term pain for long term gain. After their daughter was born Purge and Karing decided it was time to look to the future and start a career, and Power engineering was their choice. The local college ran a course and Purge was good with Physics and had always been good at figuring out how things worked. Purge could have stayed on farming but it has always been in the plan for Purge's older brother to take over the farm and Purge would either stay and work for his brother or go on to another career.

Another reason for Purge's excitement on this graduating day was that he already had a permanent job at the local processing plant where he had worked last summer as a summer student. The Job required a 2<sup>nd</sup> class but that didn't matter, as long as Purge made progress towards his 2<sup>nd</sup> it was Ok as he could work under an Alberta Temporary certification for up to 18 months before being required to pass one exam and then could go another 18 months. The Chief Engineer Kon Densate and Plant Manager Smiley Bossman liked Purge as he had a good personality, was a hard worker and was always co-operative.

Over the next few years things were going well for Purge and Karing. As they appeared to have a marriage made in heaven with two children, a boy and a girl, as well as a good job that paid well for the area. Purge and Karing were able to get a down payment put together for a nice home. They had a good vehicle with a few family toys like a fifth wheel and a boat. Purge didn't require a temporary from ABSA any more after he wrote and passed the rest of the 2<sup>nd</sup> class exams.

Purge looked back and was very happy with his decision to go into Power Engineering and make a good career for himself. Purge's brother struggled financially with the farm and eventually lost it, with only enough money left over to buy a Highway Tractor Truck and do long haul contracts. Purge was thinking "If I would have stayed on the farm I just might be doing the same thing and only visiting my family between trips." Instead, Purge was now starting to study his First Class and was taking charge of the plant in the absence of Chief Engineer Kon on a more frequent basis. Smiley Bossman let Purge know he was doing an excellent job and would request Kon to include him on special projects.

With the many initiatives Kon had done over the years, one of the projects was the installation of an Anaerobic Digester. The trend towards reducing the expensive process water had resulted in a higher concentration of waste water. By providing an environment where molecular oxygen can be absent, the anaerobic microorganisms become dominant and utilize the chemical bound oxygen. The end product of the anaerobic process is a reduced chemical form of methane and hydrogen sulfide. Purge studied the process and became a very knowledgeable person on the subject. The company sent Purge on training courses while grooming him for the day when he would become Chief Engineer. All the while Karing was encouraging Purge to someday be off shift work and fit into a normal Monday to Friday routine.

Throughout Power Engineer college, it appeared that Purge had the ability to achieve his First Class Certification and would be a Chief Engineer. The instructors and his fellow students would comment to Purge that he would be a Chief Engineer some day. The plant manager Smiley Bossman was preparing for his Chief Engineer Kon Densate's obvious retirement. Kon did eventually announce his retirement and it would be within that next year but he was very excited about the anaerobic digester as it was going to produce up to 400 gigajoules of fuel per day to be burned in the boiler and he wanted to stay on until the project was completed.

The process most often referred to as an Up-flow Anaerobic sludge blanket (UASB) was not completely new but not widely used or known a lot about in Power engineering. The design was based on a 1970 discovery that certain methanogenic bacteria have the ability to form dense, granular agglomerates with excellent settling properties. The granule is the key, allowing large populations of bacteria to form a bed at the bottom of the reactor and distribute evenly throughout the bed. All mixing requirements are taken care of by biogas evolution. A typical UASB system can remove approximately 80% of the BOD while generating a methane rich biogas for energy production.

Purge had overseen part of the project in the Boiler room side and was getting known as the company expert on the subject. New gas lines were installed in the boiler room and a new burner installed in the boiler for the combination of Methane and biogas to be used for steam generation. Alarms were installed that would sense any hydrogen sulfide leakage. The last part of the job meant a five day shut down that Smiley wasn't very happy with because there was a big demand for product. Purge coordinated it and had it done in 2 1/2 days, cutting the time in half. Everything was going very well and the project was coming to an end and that would mean that Purge would soon become the Chief Engineer.

With the extra duties Purge took on, he found that he had very little time to contribute to his Power Engineering studies, but when he was offered the Chief Engineer's Position, he was flying high. It was just what he wanted, Kon would get him his temporary First and Smiley told him not to feel pressure as he would sign for supplemental temps and to take all the time he needed to finish as long as he didn't exceed 18 months before passing another exam. The boiler plant consisted of one 100,000 lbs per hour D type packaged boiler with tangent wall furnace and a stack economizer. Steam supplied a 5 megawatt back pressure steam turbine with the exhaust steam being used for process. A very nice little first class plant with everything needed to develop up to a First Class certified Power Engineer.

Yes things were going very well for the Firebox family, Purge got a raise and they were having a new, larger house built in a very nice neighbourhood. The neighbourhood was an ideal place to bring up the two children. Karing was very proud of her husband's accomplishments. Purge went through his first year of being Chief Engineer without incident. As the months went on Purge's operational costs were better than expected. The company had planned on gaining from the anaerobic digester about 300 to 350 gigajoules per day and it was more closer to 525-575 gigajoules. This earned Purge the maximum performance bonus at Christmas of 15% of his annual salary. Karing was so delighted when Purge brought home the check, as it was just what they needed to make a few purchases for their new home.

Soon after Christmas, problems started to show up with the biogas fuel. The flue gas recirculation (FGR) for nitrogen oxide control was condensing the high sulfur flue gas, at the point where the spent gas met the pre-combustion air and corroded away the multi vain inlet knocking the plant down and they were off production for two days while this was repaired. Mr. Bossman was not very happy with this unplanned event, production had to be up. Purge was required to do an investigation and a lost production report. For Smiley he figured his Chief let him down and ought to have realized this would happen. Purge kept this talking down from Smiley to himself and didn't let Karing know about it.

Soon after wards part of the boiler casing started to show signs of corrosion with puffs of flue gas coming out. Purge had the shell patched while in operation, again and again. A few of his operators were getting angry about the repetitive problem. The room that housed the boiler was very small, the air compressors were in another room and the feeds pumps in the basement. The operators did not have a control room but had a desk in the boiler room to operate from and were very concerned about breathing in the fumes.

Purge went to Smiley Bossman and asked for a maintenance shut down. Smiley said there was no way he could agree to shutting down from 5 to 10 days in the dead of winter and take a risk of freezing everything up. This was the first real issue that Purge and Smiley argued over. Purge told Smiley that he could get in trouble with the boiler authority, Smiley told Purge the company would stand behind him and all their staff a 100%. Then without hesitation Smiley said "You only have a temporary certificate in your position and if you don't co-operate in the best interest of the company

over the demands of a few upset operators who want a pristine environment, I won't be able to renew your temporary First Class." Purge asked; "Then will I go back on shift?" And Smiley said "No, there will be no job for you. But don't think that way. Go get respirators and give them to the operators to keep them safe if the flue gas leak comes back. Those guys can't complain because they will have the required PPE and we will get our orders out." Purge left the meeting feeling extremely down, his boss had just threatened to fire him.

Purge went to Karing for consoling about what had happened and they decided that Purge would do what he was told but if Smiley kept threatening Purge, perhaps he ought to look for another job where he could get time to achieve his First Class before taking another Chief Engineer's job. Purge got the respirators for his operators as a stand-by measure if the leaks got too bad. On this one cold winter night the wind was coming right through the outside wall. The operator on shift, Kareer Enders, was a gentleman 63 years old, and had never complained about anything. He closed up the openings of the wall to prevent the cold from coming in, which was a thing they had done for over 20 years on winter nights when the wind was blowing the wrong way. The relief operator arrived in the morning and it was a little stinky in the room so he opened the louvers before going in front to find Kareer slumped over in the chair at the desk and he could not be awakened. The ambulance and the authorities were called and every one thought Kareer, who had heart problems, had succumbed to a heart attack and his death. The company immediately got a specialist in to console the Power Engineers and other close workers. It wasn't until a few days later an autopsy was done and revealed that it was carbon monoxide poisoning.

A large investigation erupted, log books were seized and maintenance records were taken. Purge was very nervous and concerned, as he got his first taste of standing alone. Purge was called into the investigation room and there were three other people at the table. Two introduced themselves as being from the safety authority and asked if it was OK that they record the conversation while placing a tape recorder on the table. The third person then introduced himself as the Lawyer for the company, and told Purge he was not here to represent him. After 5 hours of answering questions the meeting ended and Purge left much worse than when he went in, with the reminder from the Safety authority that there would be more. Purge who last week was flying high at the top of the Empire state building had just come down to the sewers of Manhattan.

Purge went home to his wife where he could always expect support and consoling from Karing. Purge really needed help but where could he go. Purge didn't belong to any associations, as a Chief he didn't belong to the union any more, he didn't belong to any church had very few friends except the ones from work who now wanted to avoid him. Somehow after working shift work for a few years and building a career, he had lost all contact with people. Purge's best friend was his wife but he needed someone else; Purge got a hold of his former Chief Kon Densate who brushed Purge off suggesting for Purge to get a Lawyer, for which he did. Three days after the interview with the Safety Authority Mr. Smiley Bossman came to Purge and said that as Purge got a Lawyer he needed to take a few days off with pay to recuperate until the investigation is over. He told him not to worry about anything and that he had a contract Chief coming in to assist in the investigation and prep the plant back to operation again, once the Authorities give the plant back to company.

Purge went home to Karing and the Kids and a few days turned into a few weeks and then a month. During this time Purge got a medical prescription from his Doctor due to the stress. He started to consume alcohol. Purge and Karing started to argue over little, meaningless things . Then Purge got a call from Mr. Smiley Bossman to come in for a meeting. Smiley told Purge his temporary First class required renewal and the company had chosen not to renew his temporary certification. "Corporation has decided that we need a fully qualified person in this position." Purge asked " What about me?" Smiley said "Your paid suspension will now terminate, we have your personal effects in a box. Please confirm everything is there." Purge asked "Am I being fired?" Smiley told him that he's just not qualified to do the job and that they don't have anything else to offer. Purge said; "Will you give me a letter of reference" and Smiley said; " I am sorry it is against the company's policy?"

Purge went home and called his Lawyer. His lawyer said, " We will negotiate a wrongful dismissal settlement, you ought to have a year's salary." The hearings started and went on and off for 3 months with drilling testimony . There was a lot of stress in the Firebox family, with the bills mounting up, Karing working at Tim Horton's and Purge drawing EI. He was paying his Lawyer token amounts and unwisely spending money on alcohol. Purge was gaining a reputation and none of the companies in commuting distance would consider him for employment. Purge was also expecting the year's salary that would get him caught up with the bills. Realistically, after the Lawyers take, if there was a settlement he still couldn't catch up.

It took four months on and off to finish the hearings but finally it ended . It took another 6 months for the magistrate to bring forth his report.

Key points were:

1. The accident was preventable and was caused by the boiler casing leakage of poisons flue gas.
2. When the economizer was cut open it had 80% ash blockage.
3. The economizer was never cleaned
4. The additional furnace pressure pushed high sulfur flue gas to condense on the casing and deteriorate the boiler casing from acid corrosion.
5. The boiler was permitted to operate below the flue gas sulfur condensation point of 280°F
6. The company working alone policy was not fully implemented in the boiler operation.
7. The qualifications of the Chief Engineer were based on the former Chief Engineer who wanted to retire.

When it was all done it looked like the company had a Chief Engineer who was not competent and when this was determined he was released from the company. The Company trusted the judgment of their retiring Chief Engineer of 20 years of service. Purge was the first line supervisor and failed in his duties .Purge had choices when his manager did not understand the dangers, in that he could have called the Safety Authorities but neglected to do so. Purge did not implement the company's working alone policy and the boiler was not kept in a safe working condition.

Finally

The Company and Purge received a substantial fine. The company was fined 1/10 of the fine Purge received. Purge lost his job, lost his house and his loving, caring wife. Karing took the children and left Purge. Purge lost his wrongful dismissal case because it was determined he took a job he was not qualified for and knew he was not. As for Mr. Smiley Bossman, when it was all over with, he was not fined but within the year he resigned and went to work at another company out of the province .

Lesson;

1. There is no need in being coerced into taking chances. You will lose in the end. Talk to your boiler inspector.
2. When making a change from the original design, do a management of change. Identify problem areas and take proactive solutions.
3. Nearly all places who have chosen to install anaerobic Bio Gas on their boilers have serious problems because they throw the fuel into the boiler without making the other changes required.
  - A. Do not use FGR.
  - B. Have a means of cleaning the economizer; either soot blowers or the ability to wash with out going into the boiler.
  - C. Have an economizer built for ash causing fuels.
  - D. Install an induced draft fan.
  - E. Have the breaching go horizontally away from the boiler containing the economizer with a means for cleaning and by pass. Stack with a bottom collection pot for ash.
  - F: Install a latch on the PLC program to prevent Bio Gas from burning when the stack temperatures drops below 280 °F

Written By: David Goodwin PE First Class Power Engineer

Edit By : Lianne Kading 2<sup>nd</sup> Class Power /First Class in Training



## Special offer

### **Attention Power Engineering Graduates:**

There is a program benefiting Power Engineering Graduates that was implemented Oct. 1/07 for a period of three years. This program offers Power Engineering Graduates who have acquired their initial Certificate of Competency a reduction in Annual dues for the first year of their IPE membership. The reduced dues shall be in the amount of \$45.00. The second and following years will be at the regular Annual dues rate for that year. Graduating students should communicate with the local IPE Branch and submit their applications and reduced dues to the local IPE branch. (The course instructor should know local branch contact but if not email [ipenat@nipe.ca](mailto:ipenat@nipe.ca) and branch contact will be notified of graduating student and will contact student.)

## **MEMBERSHIP APPLICATION FORM**

**(PLEASE DOWNLOAD, TYPE/PRINT IN INFORMATION, THEN FORWARD VIA EMAIL OR POSTAL)  
(IF APPLICATION IS FILLED IN ELECTRONICALLY, EMAIL A COPY TO YOUR BRANCH)**

- 1) ARE YOU APPLYING FOR (Check one only): Date :  
     New Membership (full Member)  
     Associate Membership
- 2) IDENTIFICATION:
- First Name: Surname:
- Credentials: Date of Birth ( (DD/MM/YY):
- Address: P.O. Box # (if applicable):
- Bldg #: Street: Apt. #:
- City: Province: Postal Code:
- Country: Canada or:
- Home Phone #: Fax # :
- E-Mail Address Prim: Sec :
- 3) EMPLOYMENT:
- Company Name:
- Position or Title:
- Address: P.O. Box # (if applicable):
- Bldg #: Street:
- City: Province: Postal Code:
- Country: Canada or:
- Work Phone #: Fax # :

## 4) POWER ENGINEERING STATUS

- a) Are you a Power Engineer? Yes No
- b) If yes, do you currently hold a valid Certificate of Competency? Yes No
- c) If so, issued in what jurisdiction?
- d) Is your Certificate interprovincially recognized? Yes No
- e) Provincial Jurisdiction File Number:
- f) If not, then to what allied trade or profession do you belong?

## 5) BRANCH SELECTION

Please select which Branch you would like to be affiliated with. If you are unsure which Branch is closest to you, then you may check the website "AREA MAP" for Branch locations. Applicants from remote areas, or from outside of Canada, may select the Branch of their choice. If you have no preference for a specific branch, you are invited to select the York Branch. French-speaking applicants may select the Montreal Branch for French language service, or the Ottawa Branch for bilingual service.

Note : All membership applications are subject to Branch approval.

Calgary	Edmonton
Hamilton	London
Montreal	Newfoundland/Labrador
NovaScotia	Ottawa
Sarnia	Sault Ste-Marie
Sudbury	Toronto
Vancouver	Victoria
Windsor	Winnipeg
York	

## 6) DUES PAYMENT

Please note that dues payment in the form of a cheque or money order payable to the INSTITUTE OF POWER ENGINEERS must accompany this application which is to be mailed to the National Office.

The dues amount is \$105.00, including a one-time initiation fee of \$10.00. Future annual dues of \$95.00 will be invoiced annually on the anniversary date of your membership acceptance, and are subject to a \$5.00 discount if paid within 30 days.

The mailing address is: Institute of Power Engineers  
PO Box 878  
Burlington, Ontario, L7R 3Y7  
Forward to : [ipenat@nipe.ca](mailto:ipenat@nipe.ca)

***Please also note that the dues constitute an Income Tax deduction if you live in Canada.***

For further information : Website: [www.nipe.ca](http://www.nipe.ca)

# Where Is Your Local Branch?



Victoria
Vancouver
Edmonton
Calgary
Winnipeg
Windsor

Sarnia
London
Hamilton
Toronto
Welland
Ottawa

Lakehead
Sault Ste Marie
Sudbury
Montreal
Newfoundland
Nova Scotia

Saguenay
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