



Institute of Power Engineers

Inside this issue:

Message
From The
President

2

National
Convention

5

Windsor
Branch

7

Montreal
Branch

9

Branches

Membership
Form

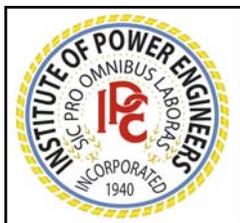
Editor
George
Reid

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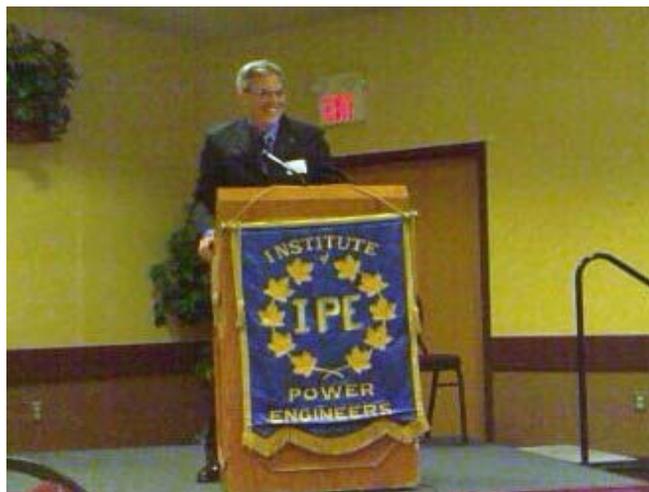
National Newsletter



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Message From the President

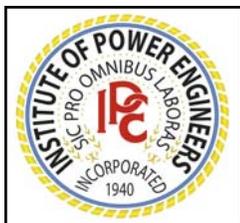


Hello! For those of you who don't know me, my name is Lorne Shewfelt. I am a Member of the Edmonton Branch and your National President in 2008 and 2009. I have served as Alberta Area Director since 2000, including terms as the 2nd and 1st National Vice Presidents. I am a practicing Power Engineer, working in a coal-fired electric generating plant near Edmonton. I am very pleased to have this newsletter re-established, and my thanks go out to all of those who worked to make it happen. It is intended that the National President will write a regular column for the newsletter, and unfortunately this will be both my first and last contribution. For that reason, I would like to take a quick look back at the past couple of years.

When I was first elected to this office at the 2007 convention in Toronto, I mentioned that I believe there are four pillars that our organization needs to focus on for the next few years if we are to continue to be successful. I'd like to share with you my thoughts on how they have progressed.

The first pillar is an increase of the visibility of our national leadership to all of our Members across Canada. This is something that is vitally important, so that you can see that there is, in fact, an active national organization that is working hard for your benefit. However, it has proven to be an elusive goal, and more work is certainly needed to make it a reality. Using this newsletter for communication from the national organization and generating more electronic communication to our Branch leaders are two avenues I see us using to achieve this, and both are in the process of being developed.

The second pillar will be less obvious to most of you, but it addresses a serious need that we have felt for some years. We have been lacking in any kind of process or documentation to prepare National Presidents for their office. I have heard numerous times from previous Presidents that administration of this office has become so time consuming and complex that it takes most of their time and energy for the first year just to overcome the learning curve, without addressing real-time issues or long-term initiatives. A National President typically serves for two years, although elections are every year. I do not believe that we can continue to keep this vital position largely ineffective for 50% of the time, through no fault of the elected office holder. I'm pleased to say that, with valuable input from various people, we now have an Operational Memo which serves to document the role and serve as a handover package for my successor, so that the transition can become much smoother and take much less time. The Memo has been drafted but still requires approval from the National Board of Directors.



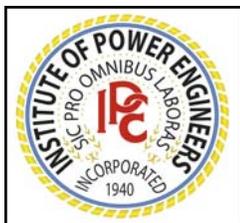
Message From the President

My third pillar is the biggest and most important of the bunch, and that is membership growth. The IPE is essentially stagnant, with no significant change in membership numbers for the past several years. We are, I believe, approximately at the critical mass of membership size that is required for our survival. If some disaster occurred today which cost us as few as a hundred Members, then the resulting loss of revenue would require either a significant dues increase or a significant reduction in service to Members. The Board of Directors has heard many times in recent years that neither of these alternatives is acceptable to our Members. Currently, our membership base includes almost 15% Senior and Life Members, all of whom have already made contributions to our profession and earned recognition through these special statuses. However, these membership categories generate less revenue without reducing costs, and they are indicative of the likelihood of membership loss in coming years due to the “aging workforce” that so many Canadian employers are working to address. Financially, our revenue is entirely dependent on membership dues. If we are to hold the dues where they are, then we need membership growth just to offset inflation, let alone to improve services. Even our budgeting process is somewhat skewed by the assumptions that we must make about membership numbers for the coming year, without being able to provide good grounding for those numbers.

And so, you can probably see for yourselves what is needed. We require measurable annual growth in our net membership, and to do that, we require growth targets that are specific and realistic, but also aggressive. Your Board of Directors has directed the national Membership Com-

mittee to develop a strategic plan for membership growth; this activity is still in development, but I am confident that it will be invaluable in future years for our growth, and even for our survival as an organization.

Please note that I made mention above of “net” membership growth. Many of our Branches have demonstrated a strong focus in recent years toward recruiting new Members, which is great and which has to continue unabated. However, we lose about as many existing Members each year as we recruit, and we are still carrying a large proportion of our membership which has not paid the required dues and is at risk of being dropped. To grow successfully, we need to target not only recruitment, but retention of existing Members, and that is a huge challenge. We will need to learn what makes membership attractive, but more importantly, we will need to learn what makes membership unattractive to thousands of Power Engineers across Canada. We will then need to correct these factors and develop structured, focused programs of both recruitment and retention. I believe we can do this, and the Board of Directors and the National Office are already working hard on it. Many Branches and individuals have proposed specific ideas along this line in recent years. Some Branches, such as Toronto and Vancouver, have already taken the next step and developed comprehensive programs to retain Members. What are needed now are goals to track our performance, well grounded business cases to determine what we really need to focus on, and well developed strategies that can be implemented across the country. All of this is coming.



Message From the President

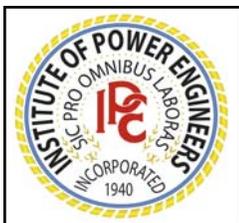
My fourth pillar is concerned with financial reporting. Several years ago, the Board of Directors heard clearly from several Branches that our financial reports were too confusing and lacked sufficient detail to provide the information that they wanted. In the interests of fiscal responsibility and transparency, we have worked hard since then to develop a better reporting system and a business plan that will enable the Branches to have more direct input into the annual budgeting process. There is still lots of work to do on this front, but I am pleased to report that the newly formatted financial statements are in use, and the new business plan is being phased in incrementally. Partly in support of this initiative, we have been converting our Operational Memos and Forms into .pdf format and enabling the Branch and Area leadership to access them directly. These documents are the “policies and procedures” that make the IPE tick, and access to the most current versions is an absolute requirement for our leaders. Use of the .pdf format and password protection on a secure area of our national website provides this access without risking the security of the documents.

We have been very busy in the past few years, expanding on the initiatives that the national organization has in place and working hard to make the I.P.E. successful. The new initiatives and the successes we have had are literally too numerous to list here, but I am sure that most of them are familiar to you. The Board of Directors’ annual meetings are getting busier literally year by year, and it has become quite a challenge to complete our agenda in the time that is allowed. The last several Presidents had done an excellent job of laying the groundwork for our continued success in the future, assisted by a Board of Directors that was highly competent and capable. In the last 2 – 3

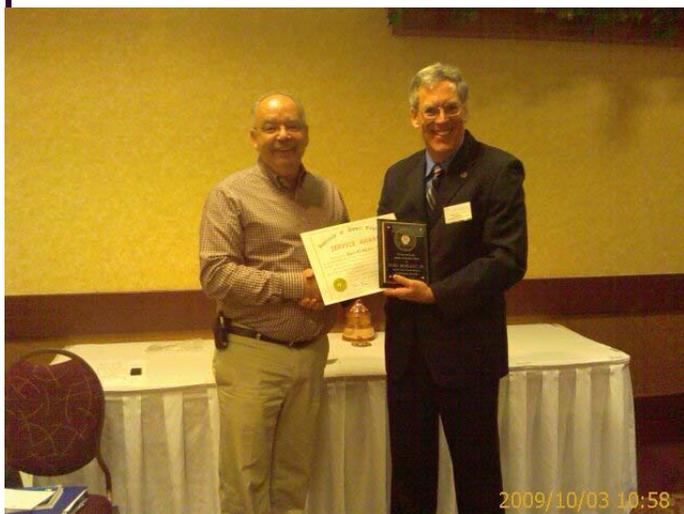
years, the Board has seen a number of new faces with new ideas and new energy, and I believe that they are well placed for great things in the coming few years. My successor, Jude Rankin, PE, of the Nova Scotia Branch, is very experienced and competent, and our Office Manager, Fred Billard, is a tireless and dedicated manager. Add to the mix our very capable National Secretary, Don Purser of Toronto, and our Assistant National Secretary, Chuck Puttenham of Winnipeg, and this is really a powerhouse group. I wish them all well and I am fully confident that they will do well.

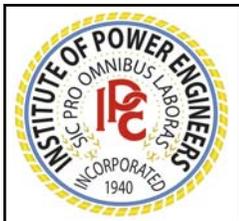
I want to thank you all for the support that I have been given in the past several years, and for the trust that has been shown in electing me as National President. I will still be around, as Immediate Past President, and I look forward to whatever further contributions I can make. All in all, 2010 is going to be a pretty exciting year for the IPE. Stay tuned, and we’ll keep you up to date as we go.

Lorne Shewfelt, PE



National Convention



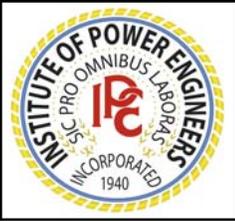


Windsor Branch



The Windsor branch has slowly been evolving over the past few years. Historically we would hold meetings and conduct tours with a yearly Christmas dinner. This formula has been augmented to include more diverse social functions that aren't engineering related but just fun. The other change that we're experiencing is an influx of student members. To involve the students more we're trying to have student specific events like pictured above, a tour of the Henry Ford museum and Greenfield Village in Detroit. Pictured below on the left is one of our many formula one karting outings, these aren't the go-karts at amusement parks but high end g pulling wickness. Pictured on the bottom right is one of our meetings with a guest speaker. Typically every year we try and have four speakers, four tours and two general meetings. This isn't cast in stone but a kind of guideline. Our branch takes the summer off and have had two beach volleyball and family bbq's however this year we were rained out.



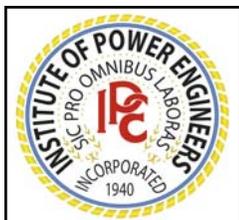


Windsor Branch



In keeping with trying to have more social outing with our families and friends we have been fortunate to have an indoor golf tournament, this year will be our third annual one with the proceeds going to charity. Some of our other activities include paintball outings, Mitch and Murray can get a bit competitive. This year we had our first summer golf league and hopefully this is something we can build on. We had planned a sky-diving day but the weather was always against us (luck for me I always had a change of underwear packed and ready just in case). This winter we're in process of organizing an archery night monthly with wine tours in the future. The Windsor branch's strategy has been to try and deliver quality speakers and tours with a balance of family and social outings. We are now looking at having a growing student base and will continue to evolve to try and meet the needs of our present and future members.





Montreal Branch

Essais périodiques recommandés devant être effectués par le chauffeur de chaudière

QUOTIDIENS

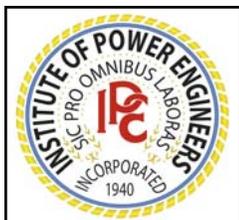
Composant ou dispositif	Essai recommandé
Manomètre, commande (contrôle) et Indicateur	Inspecter visuellement et consigner les relevés dans le journal de la chaudière.
Réglage des appareils de mesure et de l'équipement	Faire une vérification visuelle en fonction des spécifications recommandées pour l'installation.
Interrupteur à bas niveau d'eau (chaudières à haute pression)	Faire l'essai de l'interrupteur selon les directives du fabricant.
Flamme du brûleur	Faire une inspection visuelle**.

* Suivre les directives du fabricant.

** Prolonger de précautions en observant la flamme du brûleur. Il est possible qu'il soit nécessaire de porter un équipement de protection individuelle, comme des lunettes à verres filtrants.

HEBDOMADAIRES

Composant ou dispositif	Essai recommandé
Interrupteur à bas niveau d'eau (chaudières à basse pression)	Faire l'essai de l'interrupteur selon les directives du fabricant.
Allumeur	Faire une inspection visuelle ; s'il y a un indicateur de signal, vérifier l'intensité du signal de flamme.
Intensité du signal de flamme	S'il y a un indicateur du signal de flamme, faire le relevé et le consigner. Pour la veilleuse et la flamme principale, prévenir les responsables de l'entretien si les relevés sont très élevés, très bas ou variables ; se reporter aux directives du fabricant.
Dispositif de détection d'extinction accidentelle de la flamme	Fermer 1) le robinet manuel d'alimentation en combustible de la veilleuse, 2) le robinet principal et (ou) le ou les robinets d'alimentation en combustible du brûleur principal. Vérifier la séquence de mise en arrêt d'urgence et noter la durée de l'opération ; consigner le relevé.
Régulateur d'allure de chauffe	Vérifier le régulateur d'allure de chauffe et s'assurer que les réglages effectués correspondent aux directives du fabricant.
Robinet d'arrêt de sûreté de la veilleuse et (ou) du brûleur principal	Ouvrir l'Interrupteur du dispositif de sécurité et faire une vérification visuelle et auditive ; vérifier les indicateurs de position des robinets et les débitmètres de combustible, le cas échéant.



Montreal Branch

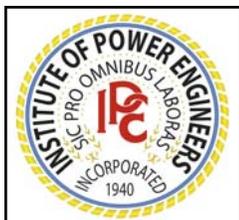
MENSUELS

Composant ou dispositif	Essai recommandé
Registre de carneau, d'évent, de cheminée ou de sortie	Inspecter visuellement la tringlerie ; s'assurer qu'elle est en état de fonctionner.
Interrupteurs de verrouillage de bas tirage, de ventilateur, de pression d'air et de position des registres	Faire l'essai des interrupteurs selon les directives du fabricant.
Interrupteur de verrouillage de mise en marche à la puissance minimale	Vérifier selon les directives du fabricant.
Interrupteurs de verrouillage de température et de pression de mazout	Faire l'essai des interrupteurs de verrouillage de haute et de basse température et de pression de mazout selon les directives du fabricant.
Interrupteur de verrouillage de pression de gaz	Faire l'essai de l'interrupteur de verrouillage de haute et de basse pression de gaz selon les directives du fabricant.

Essais périodiques recommandés* devant être effectués par le Technicien de maintenance

SEMESTRIELS

Composant ou dispositif	Essai recommandé
Manomètres, commandes et indicateurs	Réétalonner tous les manomètres, indicateurs et enregistreurs.
Interrupteur à bas niveau d'eau (chaudières à vapeur)	Faire un essai de drainage lent selon les indications fournies dans la section VI du <i>Boiler and Pressure Vessel Code</i> de l'ASME.
Dispositif de détection d'extinction accidentelle de la flamme	Vérifier les composants du dispositif de détection d'extinction accidentelle de la flamme, notamment les tubes à vide, l'amplificateur et les relais.
Régulateur d'allure de chauffe	Vérifier le régulateur d'allure de chauffe et s'assurer que les réglages effectués correspondent aux directives du fabricant.
Interrupteurs de verrouillage et robinetterie	Vérifier la tuyauterie et le câblage de tous les interrupteurs de verrouillage et de tous les robinets d'arrêt.
Verrouillage du brûleur à coupelle rotative	Faire l'essai de l'interrupteur de verrouillage du brûleur selon les directives du fabricant.
Composants du brûleur	Inspecter les composants du brûleur selon les directives du fabricant.

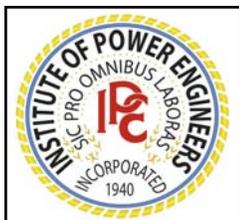


Montreal Branch

Composant ou dispositif	Essai recommandé
Appareils de commande et limiteurs	Faire l'essai du limiteur de température ou de pression et de l'appareil de commande de la température ou de la pression de fonctionnement.
Dispositif de détection d'extinction accidentelle de la flamme	Changer les tubes à vide, les détecteurs optiques et les électrodes de détection de flamme selon les directives du fabricant.
Dispositif de détection d'extinction accidentelle de la flamme (essai de réglage de la veilleuse)	Faire un essai de réglage de la veilleuse** selon les directives du fabricant. Cet essai doit être effectué une fois par an et après tout réglage du support du détecteur de flamme ou du brûleur de la veilleuse.
Dispositif de détection d'extinction accidentelle de la flamme (détection du rayonnement infrarouge émis par le réfractaire)	Faire l'essai de détection du rayonnement infrarouge émis par le réfractaire. Cet essai doit être effectué une fois par an et après tout réglage du support du détecteur de flamme ou du brûleur de la veilleuse.
Régulateur d'allure de chauffe	Faire un essai de combustion ; vérifier si les réglages correspondent aux directives du fabricant.
Robinetts d'arrêt de sûreté de la veilleuse et (ou) du brûleur principal	Vérifier toutes les bobines et les membranes ; vérifier les autres éléments mobiles de tous les robinets d'arrêt de sûreté et de commande.
Robinetts d'arrêt de sûreté de la veilleuse et (ou) du brûleur principal	Faire l'essai de l'interrupteur de verrouillage du robinet du brûleur selon les directives du fabricant.
Robinetts d'arrêt de sûreté de la veilleuse et (ou) du brûleur principal	Soumettre tous les robinets d'arrêt de sûreté à un essai d'étanchéité en suivant les directives du fabricant.
Interrupteur de verrouillage de bas tirage, de ventilateur, de pression d'air et de position des registres	Faire l'essai de l'interrupteur du dispositif de purge selon les directives du fabricant.
Interrupteur de verrouillage de mise en marche à la puissance minimale	Faire l'essai selon les directives du fabricant.
Interrupteur de verrouillage de l'atomiseur d'air/de vapeur	Faire l'essai de l'interrupteur de verrouillage de l'atomiseur d'air/de vapeur selon les directives du fabricant.
Interrupteur de verrouillage de position du brûleur	Faire l'essai de l'interrupteur de verrouillage de position du brûleur selon les directives du fabricant.
Composants du brûleur	Dans le cas d'un brûleur mixte, vérifier la commande de changement de combustible. Si elle est contrôlée automatiquement par le distributeur de gaz, faire l'essai sous la supervision d'un employé de ce distributeur.

* Suivre les directives du fabricant.

** Redoubler de précautions en observant la flamme du brûleur. Il est possible qu'il soit nécessaire de porter un équipement de protection individuelle, comme des lunettes à verres filtrants.



Montreal Branch

AU BESOIN

Composant ou dispositif	Essai recommandé
Interrupteur à bas niveau d'eau	Remettre en état ou remplacer.
Souppes de sûreté et soupapes de sûreté et de décharge	Faire l'essai des soupapes de sûreté ou des soupapes de sûreté et de décharge selon les indications fournies dans les sections VI et VII du <i>Boiler and Pressure Vessel Code</i> de l'ASME.
Dispositif de détection d'extinction accidentelle de la flamme (essai de réglage de la veilleuse)	Faire un essai de réglage de la veilleuse* selon les directives du fabricant. Cet essai doit être effectué une fois par an et après tout réglage du support du détecteur de flamme ou du brûleur de la veilleuse.
Dispositif de détection d'extinction accidentelle de la flamme (détection du rayonnement infrarouge émis par le réfractaire)	Faire l'essai de détection du rayonnement infrarouge émis par le réfractaire. Cet essai doit être effectué une fois par an et après tout réglage du support du détecteur de flamme ou du brûleur de la veilleuse.
Composants du brûleur	Dans le cas d'un brûleur mixte, vérifier la commande de changement de combustible. Si elle est contrôlée automatiquement par le distributeur de gaz, faire l'essai sous la supervision d'un employé de ce distributeur.
Composants du brûleur	Dans le cas des chaudières au mazout, nettoyer les atomiseurs et les crépines (tamis métalliques).
Composants du brûleur	Dans le cas des chaudières au gaz, vérifier le collecteur de condensats et la crépine (tamis métallique).

* Redoubler de précautions en observant la flamme du brûleur. Il est possible qu'il soit nécessaire de porter un équipement de protection individuelle, comme des lunettes à verres filtrants.

Ce document a été préparé par la Direction de la prévention-inspection, en collaboration avec la Direction des communications.

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The Marine/Steam/Hot Water and Pressure Vessel Inspection

Nous remercions l'Association des mécaniciens de machines fixes de sa collaboration à la validation du document.

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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.

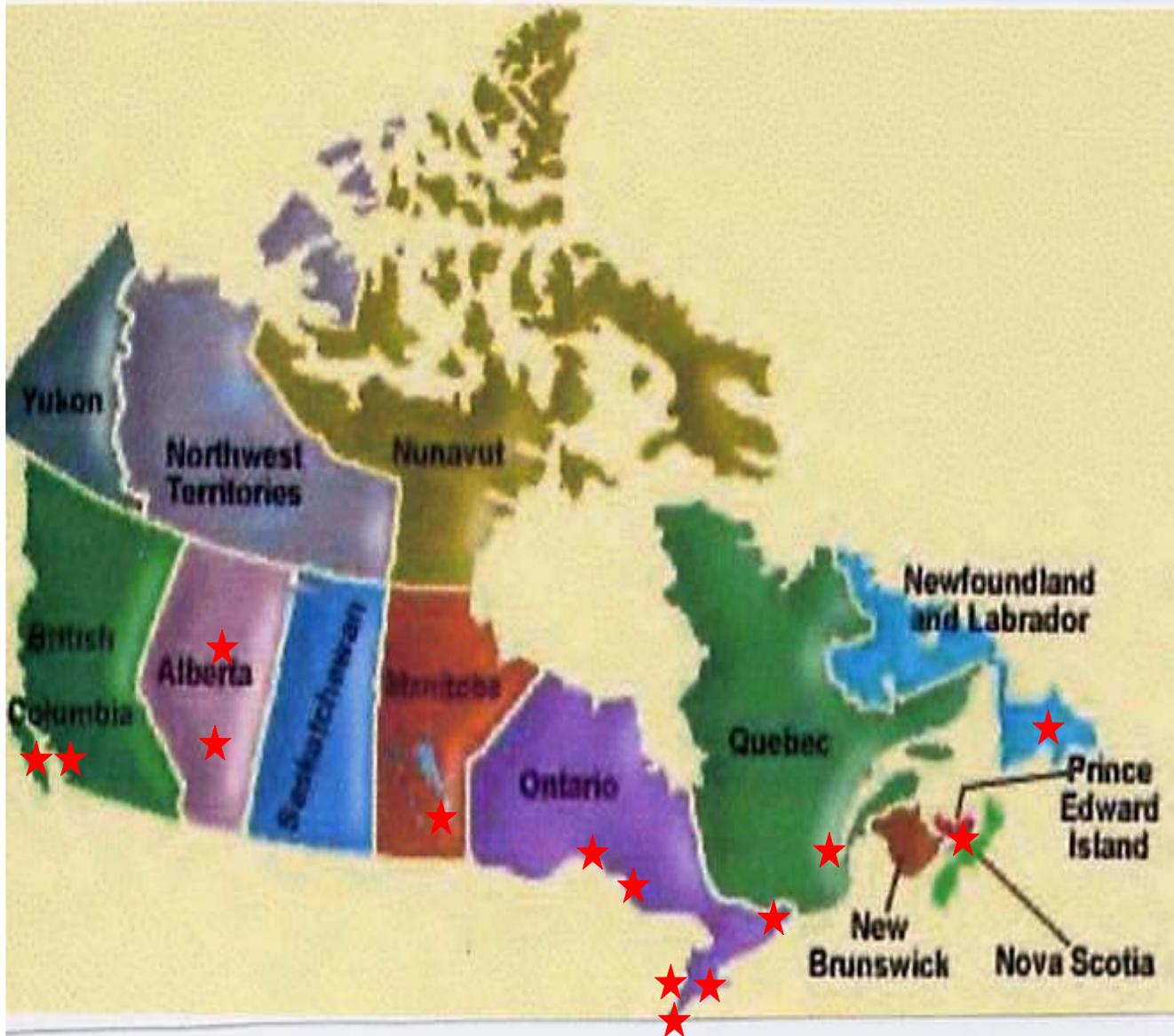
The dues amount is \$105.00, including a one-time initiation fee of \$10.00. Future annual dues of \$95.00 will be invoiced annually on the anniversary date of your membership acceptance, and are subject to a \$5.00 discount if paid within 30 days.

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

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

For further information : Website: 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