

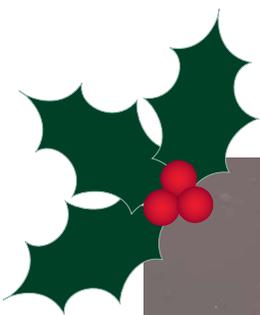
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February 20-22, 2003, Saint John, NB  
**Energy Evolution**

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# engenuity

The Source of Engineering and Geoscience News in New Brunswick  
La source d'information en ingénierie et géoscience du Nouveau-Brunswick



## Conversation with Dow Dorcas MD, P.Eng. • 2002 Awards Dinner •



## New Brunswick Engineer's Research Takes Flight • Engineers build bridges with the community

Association of Professional Engineers and Geoscientists of New Brunswick  
Association des ingénieurs et géoscientifiques du Nouveau-Brunswick



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*"Change is difficult but often essential to survival."*

Les Brown

Every organization must embrace change in order to ensure its relevancy and long-term growth. As my term as President draws to a close, I am pleased to have participated in the growth of our Association and help initiate and implement change. Some of these changes, like our communications initiatives, have been met with widespread acceptance and enthusiasm. Other changes, though just as necessary, have not been as readily accepted.

Since change is inevitable, the only real choice we have is whether or not to participate in the process. In May, hundreds of our members chose to have their voice heard by responding to the **letter ballot**—the results of which were printed in the June issue of *Engenuity*. For those of you who missed them, here they are again. You will notice that all 11 proposed by-law amendments (including the dues for retired and Life Members) were approved.

Letter Ballot Results	FOR
Life Members	89%
Members/Licencees	96%
Non-Resident/Non-Practicing Members	91%
Dues for Retired and Life Members	77%
Dues Contradictory Clause	97%
Termination Clauses Ambiguity	98%
Appointment of CCPE, CCPG Directors	96%
Continuing Competency Assurance	72%
Secondary Liability Insurance	84%
Foundation for Education	99%
Code of Ethics	95%
Annual Dues Increase	65%

Other things that changed this year included the way our professions and Association are promoted. Through a revamped newsletter, strategic advertising and numerous public relations efforts, APEGNB has received excellent media coverage, more ad revenue for our publications and most importantly, more feedback from our membership.

The **Mandatory Professional Liability Insurance Task Force** has met with each branch to get member feedback about Clause 8 (3) of the New Brunswick Engineering and Geoscience Professions Act. According to the Act, every member practicing engineering and geoscience requires professional liability insurance. However, there is no corresponding by-law that complies with the Act. The matter will be addressed again during our **Annual Meeting** in Saint John from February 20 to 22. I encourage each and every one of you to attend and help shape the future of our Association. A registration brochure is enclosed and we have an exceptional line-up of guest speakers, tours

and technical sessions. This is one Annual Meeting you won't want to miss.

I should also mention that APEGNB will be presenting our **Annual Brief** to the Province of New Brunswick on January 22. A copy of the brief will be posted on the web site shortly afterwards.

And finally, there's a staff change that deserves special mention. Our Director of Professional Affairs, **Brian Barnes**, P.Eng., will be officially retiring after the Annual Meeting. He is an incredible asset to the Association and I know he'll continue to lend his expertise and counsel through his various APEGNB volunteer commitments.

This has been a demanding year for me. I've had the opportunity to work on national and international issues with organizations such as CCPE and Human Resources Development Canada. I've met with engineers and geoscientists from a wide variety of professional and academic backgrounds. And I've thoroughly enjoyed working with the staff of the Association on a day-to-day basis. Their assistance has been invaluable and I'm sure our incoming president, **Roger Cormier**, P.Eng., will find his term as rewarding and challenging as I have.

My wife, **Jane**, and I wish everyone a wonderful holiday season and I look forward to meeting you at the Annual Meeting in Saint John. ☺

*«Le changement est pénible, mais souvent essentiel à la survie.»*

Les Brown

Toute organisation doit accepter le changement pour assurer sa pertinence et sa croissance à long terme. Au moment où mon mandat de président tire à sa fin, je tiens à souligner que je suis heureux d'avoir participé à la croissance de notre association et d'avoir encouragé le changement et sa mise en application. Certains changements mis en oeuvre, par exemple en communication, ont été majoritairement applaudis, tandis que d'autres, bien que nécessaires, n'ont pas été acceptés sur-le-champ.

Étant donné le caractère inévitable du changement, notre seul véritable choix est de participer ou non au processus. En mai, des centaines de membres ont choisi de faire entendre leur voix en répondant au **scrutin postal**, dont les résultats ont paru dans le numéro de juin du bulletin *Engenuity*. Pour ceux et celles qui n'ont pu en prendre connaissance, nous vous les présentons à nouveau. Vous remarquerez que les 11 modifications proposées aux règlements (y compris la cotisation des membres à vie ou retraités) ont été approuvées.

Entre autres changements apportés cette année, mentionnons les moyens utilisés pour promouvoir nos professions et notre association. Au moyen d'un bulletin restructuré, de publicité stratégique et de nombreux efforts

Résultats du scrutin	EN FAVEUR
Membres à vie	89%
Membres/titulaires	96%
Non-résidents et membres non pratiquants	91%
Cotisations des membres à la retraite/à vie	77%
Clause contradictoire sur les cotisations	97%
Ambiguïté sur les clauses de cessation	98%
Nomination des administrateurs CCI et CCG	96%
Compétence permanente	72%
Assurance secondaire de responsabilité civile	84%
Fondation pour l'éducation	99%
Code de déontologie	95%
Augmentation des cotisations annuelles	65%

de relations publiques, l'AIGNB a bénéficié d'une excellente couverture médiatique, de revenus publicitaires accrus et, plus important encore, d'une meilleure rétroaction de la part de nos membres.

Le groupe de travail sur l'assurance responsabilité professionnelle obligatoire a rencontré chaque section pour connaître l'opinion des membres sur le paragraphe 8 (3) de la Loi sur les professions d'ingénieur et de géoscientifique du Nouveau-Brunswick. En vertu de cette loi, tout membre occupant un poste en ingénierie ou en géoscience doit souscrire une assurance responsabilité professionnelle. Cependant, aucun règlement correspondant n'y est conforme. La situation sera abordée à la prochaine **assemblée annuelle** (20-22 février à Saint John). Je vous encourage tous et toutes à y assister pour aider à façonner l'avenir de votre association. Vous trouverez ci-joint une fiche d'inscription à cet événement qui réunira une équipe exceptionnelle de conférenciers et comprendra des visites et séances spécialisées. Soyez-y!

J'aimerais aussi souligner que l'AIGNB présentera son **Mémoire annuel** au gouvernement provincial le 22 janvier. Il sera ensuite affiché sur le site web.

Un autre changement mérite d'être souligné. Notre directeur des affaires professionnelles, **Brian Barnes**, ing., prendra sa retraite à l'issue de l'assemblée annuelle. Brian est un atout exceptionnel pour l'association, et je sais qu'il continuera à nous faire profiter de son expertise et de ses conseils en siégeant bénévolement à différents comités de l'AIGNB.

Cette année a été particulièrement exigeante pour moi. J'ai eu la chance de me pencher sur des questions nationales et internationales avec des organisations comme le CCIP et Développement des ressources humaines Canada. J'ai rencontré des ingénieurs et des géoscientifiques aux antécédents professionnels et scolaires très variés. J'ai d'ailleurs pris un grand plaisir à travailler au quotidien avec le personnel de l'association. Son aide a été inestimable et je suis certain que notre prochain président, **Roger Cormier**, ing., trouvera son mandat tout aussi gratifiant et intéressant.

Ma femme **Jane** et moi vous souhaitons une merveilleuse saison des fêtes et espérons avoir le plaisir de vous rencontrer à la prochaine assemblée annuelle! ☺



**T**he first snowflakes of the season are upon us and work at the Association office continues to be busy and fast-paced. We have an excellent staff at the APEGNB office and I encourage you to call and put their talents to work for you.

In October, I attended a **Staff Liaison Group meeting** with my counterparts from across Canada and we spent the afternoon discussing the Microsoft issue and a draft guideline for a consistent Engineer-in-Training program nationally. As always, APEGNB is viewed as a leader at these meetings as we were the first provincial Association to issue a news release on our enforcement role in the Microsoft issue and we currently have a well-managed and respected EIT/GIT training program.

November means **invoice time** and I'm certain you've noticed the fee increase (approved by our membership in May) is now on your 2003 renewal forms. I hope you realize how important this fee increase is to ensure a consistent and superior service to our members. I've also had the opportunity to speak with many of our retired members to explain the changes to our dues structure as a result of by-law changes. With change, comes growing pains, but we value the importance of our retired and life members as shown by the excellent turnout for the **APEGNB Awards Dinner** held in Fredericton on October 25. Nineteen of the 41 new Life Members were in attendance at the dinner. We also recognized deserving students with scholarships made possible by our Foundation for Education Inc.

Over the past few weeks, I had the chance to visit several of our branches as part of the **Mandatory Professional Liability Insurance task force** presentations by **Hollis Cole**, P.Eng. This will be an important issue for our members in the coming months and I hope you took advantage of this chance to learn more about the issue and to voice your comments to the task force.

Congratulations to **Brent Smith**, P.Eng. (Saint John), **Andy Small**, P.Eng. (Fredericton), and **Paul Cormier**, P.Eng. (Northwestern) on your elections as Chairs of your respective Branches. I

look forward to working with you and your Executive committees.

The search for a new **Director of Professional Affairs** is underway and this will be my last chance to publicly thank **Brian Barnes**, P.Eng., for his significant contribution to this Association. Brian will officially be leaving after the Annual Meeting in February and I hope all of his friends will join us in a sendoff for Brian at the Lord Beaverbrook Hotel on January 10.

I would also like to congratulate one of our Lay Councillors, **Susan Mesheau**, on completing her marathon run in October in Dublin, Ireland, on behalf of the New Brunswick Arthritis Society. Susan raised over \$7000 for the Society and ran the 26-mile course in under five hours—a very respectable showing.

On behalf of the staff of APEGNB, please have a safe and joyous holiday season. ☺

**L'**arrivée des premiers flocons de neige n'a pas ralenti le personnel – ce n'est pas le travail qui manque! Qu'à cela ne tienne, notre équipe est excellente, et je vous invite d'ailleurs à l'appeler pour mettre son talent à profit!

En octobre, j'ai assisté à la réunion du **personnel délégué** avec mes homologues de partout au Canada. Nous avons passé l'après-midi à discuter de la question du titre Microsoft et à ébaucher des lignes directrices pour assurer l'uniformité nationale du programme de stages. Comme toujours, l'AIGNB est considérée comme un chef de file à ces réunions, car nous avons été la première association provinciale à émettre un communiqué sur notre rôle d'exécution de la loi en ce qui concerne la question de Microsoft, sans compter notre excellent et respecté programme de formation des ingénieurs et géoscientifiques diplômés.

Novembre est le mois de la facturation, et je suis certain que vous avez remarqué l'augmentation des **droits annuels** – approuvés par les membres en mai – pour le renouvellement 2003. J'espère que vous comprenez l'importance de cette augmentation, qui a pour but de vous assurer un

service constant et de qualité supérieure. J'ai aussi eu l'occasion de parler à bon nombre de membres à la retraite pour leur expliquer l'augmentation de la cotisation découlant de la modification des règlements. Le changement ne se fait jamais sans heurts, mais nous valorisons l'importance de nos membres à vie et retraités, comme l'a démontré le **banquet d'honneur**, qui a eu lieu le 25 octobre à Fredericton et qui a d'ailleurs obtenu un excellent taux de participation – 19 des 41 nouveaux membres à vie y ont assisté. Nous reconnaissons aussi le mérite des étudiants par la remise de bourses de la Fondation pour les études.

Ces dernières semaines, j'ai eu la chance de visiter plusieurs sections dans le cadre de la série de présentations faites par **Hollis Cole**, ing., du **groupe de travail sur l'assurance responsabilité professionnelle**. Ce sera un enjeu important pour nos membres dans les prochains mois, et j'espère que vous en avez profité pour réfléchir à la question et exprimer votre opinion au groupe. Félicitations à **Brent Smith**, ing. (Saint John), **Andy Small**, ing. (Fredericton) et **Paul Cormier**, ing. (Nord-Ouest) pour votre nomination à titre de président de vos sections respectives. J'ai hâte de travailler avec vous et vos comités exécutifs.

Puisque nous sommes actuellement à la recherche d'un nouveau **directeur des affaires professionnelles**, voici ma dernière chance de remercier publiquement **Brian Barnes**, ing., pour sa contribution importante à l'association. Brian nous quittera officiellement après l'assemblée annuelle de février, et j'espère que tous ses amis seront des nôtres pour une petite fête en son honneur à l'hôtel Lord Beaverbrook le 10 janvier.

Au nom de la Société d'arthrite du Nouveau-Brunswick, je tiens à féliciter une de nos conseillères non professionnelles, **Susan Mesheau**, pour avoir terminé son marathon en octobre dernier à Dublin, en Irlande. Susan a parcouru les 41,6 km (26 mi) en moins de cinq heures – un résultat très respectable! – qui lui a permis d'amasser plus de 7000 \$ pour cet organisme.

Au nom du personnel de l'AIGNB, je vous souhaite une période des fêtes dans la joie et la prudence! ☺

## Council At Work

By Ruth Carter

**M**erry Christmas! Council has had a busy fall. We met in September and October in Fredericton and in Moncton in November. The October Council meeting was followed by the APEGNB Awards Dinner. Congratulations to all of our new Life Members and to the award winners.

The October Council meeting had presentations made by **Becky Daye**, EIT, Directions Coordinator and **Melissa Mertz**, Director of Communications. Council members enjoyed hearing about the work undertaken by these two busy staff members.

Council has been working with several on-going issues and is making good progress. One issue is the replacement of **Brian Barnes**, P.Eng., Director of Professional Affairs. Brian is planning to retire and work a little harder on his golf swing. Good luck Brian, we have all enjoyed working with you.

Council meets again in early January and if you have any concerns or comments please contact your district councillor or call the Association office. Comments by e-mail can be sent to [educate@apegnb.com](mailto:educate@apegnb.com). ☺

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## Ask The DPA

**Brian Barnes, P.Eng.**  
Director of Professional Affairs



**Q.** Why are individuals who handle aircraft maintenance allowed to call themselves “aircraft maintenance engineers” when we protest the use of the term “Microsoft Certified Systems Engineer”?

**A.** In order to be certified as an aircraft maintenance engineer, one must take courses of considerable length, work as an apprentice for a specified time, and successfully complete exams set by the Aircraft Maintenance and Manufacturing group of Transport Canada. Legislation for this is Part 566 of the Canadian Aviation Regulation under Part 403 of the Canada Aeronautics Act.

**A.** Under Clause 27(b) of the New Brunswick Engineering and Geoscience Professions Act, APEGNB cannot prohibit or preclude any person from practicing, carrying out any inspection or working in a trade or calling with respect to which the person is registered, licenced or otherwise authorized under any other public or private Act of the Province of New Brunswick. Since aircraft maintenance engineers and stationary engineers (now called power engineers) are governed by their own Acts, the use of their work title cannot be challenged.

*If you have a question regarding the use of the terms “engineer” and “geoscientist” or would like clarification on the New Brunswick Engineering and Geoscience Professions Act, please contact **Brian Barnes**, P.Eng., Director of Professional Affairs at [barnes@apegnb.com](mailto:barnes@apegnb.com)*

**Q.** Why can a government employee call themselves “geologists”, “geoscientists”, “professional geologists/geoscientists” without being registered and having a seal?

**A.** The simple answer is – they can’t. A government employee is no different than a private sector employee. People may use the terms you’ve listed in an informal manner but not hold themselves out as a professional geoscientist without having been registered with our Association. Some people who have degrees in geology may be employed as a lawyer, doctor or financial advisor. These people are entitled to verbally advise that they were initially trained or have a degree in geology but they are not allowed to give anyone (including clients and employers) the impression that they are practicing geoscience. If they were to do that, they would be in violation of the Act and APEGNB would certainly investigate the situation. ☺

**T**he Saint John Branch held its first **Annual Meeting** (in a very long time) back in September. The meeting was the completion of an effort embarked upon earlier this year, where the Branch membership approved the revised Branch By-Laws. Minutes can be viewed at the Branch web site: [www.apegnb.com/branch/saintjohn](http://www.apegnb.com/branch/saintjohn). Also, the Saint John Branch Executive elections were held the same night. Please visit the web site to learn who the executive members are and their contact information.

A presentation was made to the 25 Branch members in attendance on November 4 by **Hollis Cole**, P. Eng., Chair of the APEGNB **Mandatory Liability Insurance task force**. This was an informative presentation and a good discussion followed from the audience. If you are not familiar with the issue of Mandatory Liability Insurance, I encourage you to contact the APEGNB office for more information or copies of the presentation.

## Saint John Branch

*Brent Smith, P.Eng., Chair*

The Executive of the Saint John Branch has mapped out a **calendar of events** for the upcoming year. This can also be viewed on the web site. However, the following are the key dates remaining. Please book your calendars now:

December 18, 2002	<b>Christmas Meet 'n Greet</b>	Union Club
January 25, 2003	<b>Curling Night</b>	Thistle St. Andrew's
February, 2003	<b>APEGNB Annual Meeting</b>	Saint John
March Break 2003	<b>National Engineering Week</b>	Province-wide
April/May, 2003	<b>Technical Tour and Dinner</b>	TBA
May/June, 2003	<b>Annual Branch Dinner/Cruise</b>	TBA
July 2003	<b>Golf Tournament</b>	Rockwood Park

Branch members will be updated and reminded of all of the events using the web site, e-mail messages and, when appropriate, voice mail reminders. If any Branch member has any additional suggestions for technical presentations, social events or anything of the sort, please contact any member of your Branch Executive.

To ensure your membership in the Branch and to ensure that you are reminded of all Branch events, the \$14 Branch Dues can be submitted along with your 2003 APEGNB dues invoice, if you have not already done so. Please write "Branch Dues" on the invoice if no box exists (total \$262.40).

The Executive is looking forward to an exciting year and we encourage the members to participate.

### QUIZ

The member of the Saint John Branch who can successfully answer the following question will receive an attractive engraved Saint John Branch APEGNB writing pen.

#### Question:

The APEGNB's 83<sup>rd</sup> Annual Meeting is being held in \_\_\_\_\_, February \_\_\_ to \_\_\_, 2003 and the theme is \_\_\_\_\_.

If necessary, a random draw will be made from the correct responses to determine the winner. Please e-mail your results to [sjbranch\\_apegnb@hotmail.com](mailto:sjbranch_apegnb@hotmail.com) or alternatively by calling our Branch hotline (1-877-425-5500). ☺



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## Fredericton Branch

*Andy Small, P.Eng, Chair*

**T**he Fredericton Branch has had an active fall with several technical presentations, a pub night and a pool night at Dooly's. We also sponsored an evening at the **Eric Garland Memorial Basketball Tournament** at the Aitken Centre. A presentation on the **World Trade Center** was jointly hosted with **R. J. Bartlett Engineering** and a second presentation on **Smart Human Centered Road Safety Systems** was jointly hosted with the western branch of the Canadian Society for Civil Engineering (CSCE).

A highlight of the fall program was the fall golf tournament at Kingswood on September 27, 2002. Eight teams participated and raised \$750 for the

the web site contains the existing by-laws and the proposed by-laws for ease of comparison and to identify the changes that are proposed. A **letter ballot** is included with this edition of *Engenuity* for the Fredericton Branch members to vote on the new by-laws.

On Thursday, January 23, 2003, we will be holding the **Annual Fredericton Branch Dinner** at the Sheraton. APEGNB President, **J. Allan Giberson, P.Eng.**, will update the membership on

activities with the provincial Association and **Jane McGinn, P.Eng.**, Director of Student Affairs and Services at UNB, will be the guest speaker. She will talk about what it's like to be an engineering student today, some of the changes in student life during the past 40 years and the challenges that confront today's students.

We are also pleased to have had several new members attend the Branch Council meetings in response to our **"Bring a Friend"** initiative who will bring new energy to the Branch. ☺



*At the Fredericton Branch Fall Golf Tournament, Don Partington, P.Eng., from Geoplan (on the left) had the longest drive and Neil Valsangkar, P.Eng., with Bridgeteck (on the right) was closest to the pin on No. 17.*



*The Fredericton Branch Chairman, Andy Small, P.Eng., (left) is pictured here with the winning team from ADI at the Fredericton Branch Fall Golf Tournament at Kingswood in September 2002. The foursome of Mike Murphy, P.Eng.; Dave Hallden, P.Eng.; Danny Gilbey, P.Eng.; and James McCormick, P.Eng. (left to right) carded a minus 12 to win the tournament that contributed \$750 to the APEGNB Foundation for Education Inc.*

**APEGNB Foundation for Education, Inc.** We have also been updating the by-laws for the Branch so that they reflect the current mode of operation and provide information to the membership on the objectives and organization of the Branch. A copy of the proposed by-laws can be found at [www.apegnb.com/branch/fredericton.html](http://www.apegnb.com/branch/fredericton.html). The document located on



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## Northwestern Branch

*Paul Cormier, P.Eng – Chair*

**R**egular meetings of the Northwestern Branch executive have started with a lot of activities being planned for the upcoming months. At the beginning of 2003, we are looking at a **mill visit**, as well as having another training course. Additional information on these two events will be sent to you by e-mail once all details have been finalized.

The Branch is also hard at work planning our **9<sup>th</sup> Annual Pasta Bridge Contest**, which is held at four schools in Edmundston and Grand Falls. We intend to keep last year's format of having a regional final with the top two finishers from each school competing for top honours of the region. The final competition will be scheduled during National Engineering Week.

We are still looking to include all members on our e-mail communications list. If you have access to e-mail and have not received any from the branch lately, please send me an e-mail at paul@corpel.com so that I can add you to the list. Almost all of our branch communications are now done by e-mail since it is fast and cost-effective.

We look forward to seeing you at our upcoming events. We also would like to extend our warmest wishes to all members and their families during this holiday season. ☺



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## La section du Nord-Ouest

*Paul Cormier, ing – Président*

**L**e comité exécutif de la branche du Nord-Ouest est de nouveau au travail avec beaucoup d'activités à venir durant les prochains mois. Au début de 2003, nous prévoyons une **visite d'usine**, ainsi qu'un cours de formation. De l'information additionnelle sera envoyée par courriel une fois tout les détails finalisés.

La branche planifie aussi la **9<sup>ième</sup> édition du concours de ponts en pâtes alimentaires**, qui a lieu annuellement dans quatre écoles d'Edmundston et de Grand-Sault. Nous avons l'intention de retenir le même format que l'an dernier, avec une finale régionale pour les deux meilleurs ponts de chaque école afin de compétitionner pour les grands honneurs

régionaux. La grande finale aura lieu pendant la semaine nationale de génie.

Le comité cherche toujours à inclure tous les membres sur notre liste de communication par courriel. Si vous avez accès au courriel et vous n'êtes pas déjà inscrits, S.V.P. m'envoyer un courriel à **paul@corpel.com** afin que je puisse vous ajouter à la liste. Presque toutes les communications de la branche sont maintenant fait par courriel, étant donné que c'est rapide et peu dispendieux.

Nous espérons avoir le plaisir de vous voir à nos prochaines activités. Le conseil aimerait aussi souhaiter à tous ses membres et à leurs familles les meilleurs voeux pour la saison des fêtes. ☺

## Northeastern Branch

*Ray Ritchie, P.Eng. – Chair*

**G**reetings to all Northeastern APEGNB Branch members from the newly elected executive (which looks remarkably similar to last year's executive).

On Thursday, November 7, 2002, we held our **Annual Branch Meeting** at the K.C. Irving Centre in Bathurst. Although there was a huge crowd assembled in the parking lot, the majority of them were fans of a Titan's game. However, our ABM attendance of 17 members and a total of 4 guests did make for a lively meeting nonetheless, and it exceeded last year's tally of 13. We were very pleased to have APEGNB Executive Director, **Andrew McLeod**, in attendance.

The highlight of our gathering was the presentation by **Hollis Cole**, P.Eng., Task Force Chair, regarding **Mandatory Liability Insurance**. After a series of PowerPoint™ slides depicting the pros and cons of the proposed insurance, an engaging discussion followed with thought-provoking questions from the audience.

In the final analysis, attendees were asked to give their tentative opinion through a show of hands vote, and surprisingly, a unanimous 17 hands indicated fairly solid support for Mandatory Liability Insurance. The following salient points were discussed:

1. Since 1986, the Engineering and Geoscience Professions Act has implied that insurance was widely held by our membership and it was enforced according to

our by-laws. However, no by-law has previously been enacted to govern this.

2. It would appear from candid conversations with the provincial justice minister, that a limitation to the currently endless liability with which professional engineers and geoscientists are burdened, will only become possible once Mandatory Liability Insurance is enforced.
3. A large portion of the membership, employees of Charter of Authorization firms, or large industrial firms, would not be required to undertake individual policies under this program. (They are largely covered by their employers' policies).
4. Other Branch memberships also voiced similar strong support for the program.

The task force will report back to Council and possibly the Annual Meeting in February.

Following the Mandatory Liability Insurance discussions, we were treated to another presentation of significant interest, albeit on a much lighter note. **Nancy McKay** and **Stephane Hachey** honoured us with their presence on behalf of the **Canada Winter Games** organizing committee.

Their dedicated involvement with this enormous undertaking in the Bathurst/ Dalhousie/ Campbellton corridor is a testament to true volunteer spirit. This impressive presentation staggered all of us (except our **Eric Beattie**, P.Eng., who is also involved with the Games) with the sheer magnitude of the challenge to provide top-

notch facilities, nourishment, and housing for 3200 athletes during a two-week timeframe (More athletes will be at the Canada Games than at the past Olympics. Among the logistical challenges are the 75,000 meals that will need to be prepared.) The infrastructure improvements and legacy to the area after the February games are over, are almost as significant as the estimated \$40 million economic impact during the event.

Finally, our business meeting concluded with an election of officers for the **2002-2003 Northeastern Branch Executive**.

We were thrilled to fill all positions this year, and welcome **Kirk Mullin**, P.Eng., and **Denis Gallant**, P.Eng., to the predominantly incumbent-filled roster. The results are as follows:

Chairperson	Ray Ritchie, P.Eng.
Vice-Chairperson	Bill Schenkels, P.Eng.
Secretary	Thomas Paisley, P.Eng.
Treasurer	Lisa Albert-Thériault, P.Eng.
Communications	Kevin Gallant, EIT
P.Geo.	Pat McMahon, P.Geo.
Northumberland Councilor	Kirk Mullin, P.Eng.
Gloucester East	Denis Gallant, P.Eng.
Gloucester West	Marc Losier, P.Eng.
Restigouche	Eric Beattie, P.Eng.

Hats off to **Marc Losier**, P.Eng., who couldn't attend the ABM due to a previous commitment, but carried out most of the arrangements for this meeting. ☺



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It is said that the strength of an organization is simply a reflection of the strength of its people.

Over the past two years, traveling across Canada in my role as the Chief Executive Officer of the Canadian Council of Professional Engineers (CCPE), I've had the opportunity to meet hundreds of engineers. The experience has reinforced my belief that Canada's engineers are second to none, and made me increasingly proud to be a member of our profession. Engineering has attracted and retained a wealth of talented people who, despite the challenges inherent in their work, truly enjoy the career path they have chosen.

This feeling was confirmed recently by the preliminary results of our **2002 National Survey of the Engineering Profession in Canada**. The data indicate that we Canadian engineers are a pretty satisfied lot. An incredible 86 per cent of us reported being satisfied with our jobs. And nearly 80 per cent of us reported having a positive outlook on our prospects for the future.

The engineers I've met and the initial findings of the national survey paint a remarkable picture for me of a very special profession, one that deserves to be celebrated — and protected.

Protected may seem like an unusual choice of words. If engineers are as satisfied and happy as the survey results indicate they are, why do they need protection? The answer lies in the fact that a high percentage of engineers also reported that their P.Eng. licence is of little value in their careers, and of little value to their employers.

**What's at stake is the future of engineering as a self-regulated profession**, with the right to an exclusive scope of practice and title. Our high standards of engineering education, as well as our ability to protect the public and the environment are also threatened.

Canadian engineers are among the best in the world. One of the reasons for that, I believe, is the holistic approach we have adopted for the formation of an engineer. It is an integrated system, which combines accreditation, supervised engineering work experience, and a demonstrated understanding of professional ethics to "produce" something unique — the P.Eng.

## It's Time to Stand Up for the P.Eng.

The basis for our system, and the glue that binds it together as an integrated whole, is self-regulation and licensure. Accreditation, which supports a consistent and high standard of undergraduate engineering education in Canada, is conducted by a standing committee of CCPE on behalf of our member associations/ordre. The associations/ordre conduct the profession's supervised engineering work experience programs and professional practice exam, the other two elements in our system, in support of high practice and ethical standards.

Our integrated approach to the formation of an engineer has made the "product" of our system, **the P.Eng., a symbol of quality assurance** around the world. As a result, many other countries are envious of our system.

To maintain our system, we must be careful not to value one of its elements above the others, to forego one of the three elements, or to ignore the structure of self-regulation and licensure on which it is based.

Without self-regulation and the weight of our profession behind us, the career success and job satisfaction we engineers currently enjoy may be short lived. When a group of people has earned a reputation for excellence, another group will invariably try to capitalize on it. Professional engineering in Canada is confronting just such a situation today.

As some of you may already know, in July, Microsoft Canada advised Canadian holders of the **Microsoft Certified Systems Engineer (MCSE) certification** that they should "feel free" to use the full designation, including the term "engineer." This goes against a decision Microsoft made in 2001, after meeting with representatives of CCPE and its member associations/ordre, which saw the software giant advise MCSE holders to use only the designation MCSE rather than the full designation, to comply with Canadian provincial and territorial laws that restrict the use of the terms "engineer" and "engineering" to licensed professional engineers.

Prior to its July 2002 announcement, Microsoft Canada consulted with MCSE holders, course providers and other stakeholders. It also sought legal counsel. The deciding factor appears to have been the perception that the MCSE designation will

be less valuable to Canadian holders, relative to their counterparts in the rest of the world, if they cannot use the full designation and refer to themselves as engineers.

**Gary Jones**, a regional manager for Polar Bear Corporate Education Solutions, the nation's largest provider of corporate technology education, is quoted in *IT Business* as saying, "Engineer holds more weight."

The reason for this is very simple. We engineers have built a wonderful, highly successful profession that provides its members with high career satisfaction. The term "engineer" does carry significant value, or weight, because engineers and the engineering profession have gained a reputation for technical excellence.

If we value that reputation, embodied by the P.Eng., then we should be willing to protect it. As individuals, we can work to dispel public misunderstanding about engineering's status as a regulated profession, and make it clear that the P.Eng. licence holds considerable value, whether it be among business leaders, engineering students or the general public.

It's an issue we need to confront now. We must take ownership of who and what we are, and we need every engineer in Canada to get on side.

Ultimately, our goal should be to ensure that our licence becomes the symbol that Canadians recognize when they see an engineer. Our licence must become the rightful symbol of our status as professionals, fully qualified to do engineering work in this country. The P.Eng. says we've earned the right to work in a profession that carries with it tremendous personal satisfaction and hope for the future.

Unless we make the public aware of the meaning and significance of the P.Eng. and what it means to call yourself an engineer, there will always be confusion that pushes people like MCSE certificate holders to take advantage of our status as engineers and, more importantly, inadvertently put the Canadian public at risk.

I hope you will all agree with me that our licence is of great value to the public and to us. Let's make sure everyone understands what the P.Eng. licence means! ☺

## Nous devons faire valoir notre permis d'ingénieur

**O**n dit que la qualité d'une organisation est le reflet de la qualité des personnes qui la composent.

Au cours des deux dernières années, lors de mes déplacements à travers le Canada, j'ai eu l'occasion de faire la connaissance de certaines d'ingénieurs. Cette expérience m'a rendue encore plus fière de faire partie de notre profession. La profession d'ingénieur a su réunir et conserver dans ses rangs une foule de personnes hautement compétentes qui, malgré les défis inhérents à leur profession, apprécient véritablement la carrière qu'elles ont choisie.

Et c'est ce qu'ont confirmé récemment les résultats préliminaires de notre **Sondage national 2002 sur la profession d'ingénieur au Canada**. Les données indiquent que nous, les ingénieurs canadiens, sommes des personnes très satisfaites. En effet, une incroyable proportion de 86 pour cent d'entre nous avons affirmé être satisfaits de nos emplois. Et près de 80 pour cent d'entre nous avons indiqué afficher une attitude positive à l'égard de nos perspectives d'avenir.

Les ingénieurs que j'ai rencontrés et les constatations initiales du sondage national dépeignent à mes yeux l'image remarquable d'une profession toute spéciale qui mérite d'être célébrée – et aussi d'être protégée.

Protéger semble peut-être un choix de mots plutôt inhabituel. Si les ingénieurs sont aussi satisfaits et heureux que les résultats du sondage l'indiquent, pourquoi la profession aurait-elle besoin d'être protégée? La réponse vient de ce qu'une forte proportion d'ingénieurs ont également affirmé que leur permis d'ing. était peu utile pour leur carrière et avait peu de valeur aux yeux de leurs employeurs.

**Ce qui est en jeu, ici, c'est l'avenir du génie comme profession auto-réglémentée**, avec droit à l'exclusivité du domaine de pratique et du titre. La qualité de notre formation en génie ainsi que notre capacité de protéger le public et l'environnement sont aussi en jeu.

Les ingénieurs canadiens comptent parmi les meilleurs au monde. Il en est ainsi, je crois, en raison de l'approche globale que nous avons adoptée pour la formation de l'ingénieur. Il s'agit d'un système intégré qui allie l'accréditation, l'expérience de travail en ingénierie, et une compréhension manifeste de la déontologie professionnelle, pour engendrer le « produit » sans pareil qu'est l'ingénieur.

La base de notre système, et ce qui le maintient en un tout homogène, sont l'auto-

réglementation et le permis d'exercice.

L'accréditation, qui vient appuyer une formation de premier cycle en génie uniforme et de calibre supérieur, est assurée par un comité permanent du CCI, au nom de nos associations/ordre constituants. Les associations/ordre, de leur côté, se chargent des programmes de surveillance de l'expérience de travail en génie et de l'examen sur l'exercice de la profession, les deux autres éléments de notre système, qui visent à appuyer des normes élevées d'exercice et de respect de la déontologie.

Notre approche intégrée à l'égard de la formation de l'ingénieur a permis au « produit » résultant de notre système, l'ingénieur, d'être reconnu autour du monde. **La désignation ing. est un symbole d'assurance de la qualité.** Notre système fait l'envie de nombreux pays.

Pour le conserver, nous devons veiller à ne pas privilégier l'un de ses éléments par rapport aux autres, à ne nous priver d'aucun de ses trois éléments, et à ne pas ignorer la structure d'auto-réglementation et d'attribution des permis sur laquelle il repose.

Sans l'auto-réglementation et le soutien de notre profession, le succès professionnel et la satisfaction que nous retirons de notre profession, nous les ingénieurs, pourrions bien ne pas faire long feu. Lorsqu'un groupe de personnes a acquis une réputation d'excellence, il est inévitable qu'un autre groupe cherche à en tirer parti. La profession d'ingénieur au Canada est présentement confrontée à une telle situation.

Comme vous le savez peut-être déjà, en juillet dernier, Microsoft Canada avisait ses titulaires canadiens de la **certification Microsoft Certified Systems Engineer (MCSE)** de se « sentir libres » d'utiliser l'appellation au long y compris le titre d'« ingénieur ». Cette décision venait contredire une décision prise par Microsoft en 2001, suite à des entretiens avec des représentants du CCI et de ses associations/ordre constituants, selon laquelle le géant de l'informatique recommandait aux titulaires de la certification MCSE d'utiliser uniquement l'appellation MCSE, plutôt que l'appellation au long, afin de se conformer aux lois provinciales et territoriales du Canada, qui limitent l'utilisation des termes « ingénieur », « génie » et « ingénierie » aux titulaires d'un permis d'exercice du génie.

Avant son annonce de juillet 2002, Microsoft Canada avait consulté des titulaires de la certification MCSE, des prestataires de cours et d'autres intervenants. Elle avait aussi sollicité

l'avis de conseillers juridiques. Un facteur déterminant semble avoir été la perception selon laquelle l'appellation MCSE aurait moins de valeur pour les titulaires canadiens, par rapport à leurs homologues ailleurs dans le monde, s'ils ne pouvaient utiliser l'appellation au long et s'appeler des ingénieurs.

**M. Gary Jones**, directeur régional auprès de Polar Bear Corporate Education Solutions, le plus important fournisseur de formation en technologie du pays, est cité dans la revue IT Business comme disant que le terme ingénieur « a plus de poids ».

La raison de ceci est fort simple. Nous, les ingénieurs, avons édifié une profession de qualité, respectée et très prospère qui procure à ses membres un niveau élevé de satisfaction professionnelle. Le terme « ingénieur » comporte effectivement beaucoup de valeur ou de poids, parce que les ingénieurs et la profession d'ingénieur ont acquis une réputation d'excellence technique.

Si nous apprécions cette réputation, incorporée dans la désignation ing., alors nous devons être prêts à la protéger. Sur le plan individuel, nous pouvons travailler à dissiper les malentendus au sein du public quant à la nature du génie comme profession réglementée, et faire clairement ressortir que le permis d'ing. est d'une valeur considérable pour les chefs d'entreprise comme pour les étudiants et étudiantes en génie et le public en général.

C'est un problème auquel nous devons nous attaquer dès maintenant.

Notre objectif doit être de faire en sorte que notre permis devienne un symbole que les Canadiens et Canadiennes reconnaissent lorsqu'ils voient un ingénieur. Notre permis doit devenir le symbole légitime de notre statut de professionnels pleinement compétents pour accomplir des travaux d'ingénierie dans notre pays. La désignation ing. indique que nous avons acquis le droit d'exercer une profession qui s'accompagne d'une formidable mesure de satisfaction personnelle et d'espérance pour l'avenir.

Si nous ne sensibilisons pas le public quant à la signification de la désignation ing. et ce que signifie s'appeler un ingénieur, il existera toujours une confusion qui poussera les gens comme les titulaires de certificats MCSE à profiter de notre statut d'ingénieurs et surtout, par inadvertance, à mettre en danger le public canadien.

J'espère que vous reconnaîtrez comme moi que notre permis est d'une importance inestimable pour le public et pour nous tous. Faisons tout en notre pouvoir pour que chacun comprenne bien ce que signifie le permis d'ing.! ☺

There has been much activity at Head Hall this fall semester, as students prepare for a career in engineering. “**Meet Your Future Employer Night**” was held September 24, 2002, in the Dineen Auditorium. Professional engineers from government and industry shared various perspectives on what skills graduating engineering students will need in the work world. Students were able to ask direct questions during the question and answer session. The informative and candid replies from the professional engineers were appreciated by all. We would like to thank guest speakers **Sherry Sparks, P.Eng., Tony Binotto, P.Eng., Paul Morrison, P.Eng.** and **Lloyd Borowski, P.Eng.**

The department of **Geodesy and Geomatics Engineering** at UNB saw a record jump in the number of new undergraduate students entering the department this year. There were twice as many new students as last year who came from across Canada and around the world. Enrollment increased in other departments as well. Grad students in the department of **Electrical Engineering** more than doubled from 35 students to 95.

## Report from The Faculty of Engineering UNB Fredericton

by **Jared McGinn, P.Eng., Engineering Administrative Coordinator**

The second annual **Faculty of Engineering Awards Night** was held at the Sheraton Hotel on Friday, November 1. Undergraduates receiving engineering scholarships and prizes, and students on the prestigious Dean's List were recognized. Student sponsorship from the following organizations was greatly appreciated:

- ADI Limited
- Aliant Telecom
- Arrow Construction Products
- Association of NB Land Surveyors
- AV CELL
- Business New Brunswick
- Construction Association of New Brunswick
- Department of Environment and Local Government
- Department of Supply & Services
- Department of Transportation
- Eastern Designers & Company Ltd.
- Enbridge Gas New Brunswick
- Jacques Whitford
- MacDonald Paving & Construction

- Master Mechanical Contractors
- McCain Foods Limited
- MECCA Corporation
- NB Power
- Neill & Gunter Limited
- Road Builders Association of New Brunswick
- Robert Burridge, P.Eng.
- Simpson Construction
- and many UNB faculties.

The **Women in Engineering Society (WES)** is very active this year. Thanks to the work of co-chairs **Michelle LeBlanc** and **Gillian Mandville** and the WES executive, the society realized a substantial increase in membership including many male engineering students.

Finally, the new café in Head Hall opened in September. Now, with winter almost here, engineering students can enjoy a hot cup of coffee without ever having to leave the building. ☺

## UNB and APEGNB Pair Up To Offer Learning Programs

The UNB College of Extended Learning, UNB Faculty of Engineering, and APEGNB are pleased to announce their partnership in working together to respond to the professional development needs of the province's engineers and geoscientists. The partners plan to offer seminars and workshops, and programs that are current and relevant to today's engineers and geoscientists. In addition, guided by the College of Extended Learning, they intend to reach out around the province as much as possible, to make learning opportunities more accessible.

The first offerings will be in the form of a series of seminars, delivered in Campbellton, Fredericton, Moncton, and Saint John. The topic for the February 2003 series is “**Fundamentals of Project Management for Engineers.**” The topic for the March 2003 series is “**Emerging Wireless Technologies.**” These two topics will be offered in partnership with Eclipse

Innovations. Seminars will be a half-day to one day in length. For more information, please contact UNB's College of Extended Learning at 506-458-7619 or email [mcsorley@unb.ca](mailto:mcsorley@unb.ca) or check out the CEL's web site at [www.unb.ca/extend](http://www.unb.ca/extend)



Back Row (L to R): **Andrew McLeod**, Executive Director, APEGNB; **John Christian, P.Eng.**, Dean of Engineering, UNB; **J. Allan Giberson, P.Eng.**, President, APEGNB; **Anne Higgins**, Program Director, Information Technology and Continuing Education for the Professions  
 Front Row (L to R): **Judith Potter**, Director, College of Extended Learning, UNB; **Peter Bischoff, P.Eng.**, Director, Undergraduate Studies, Department of Civil Engineering, UNB

## Engineers build bridges with the community

By **Gordon Kerr, P.Eng.**, Quality Coordinator, Maritime Paper Products Limited

**W**ith Christmas just weeks away, there are many organizations competing for our charitable donations. How do we choose which ones to support? When it comes right down to it, the volunteers that truly believe in their organization are able to convince us. That is how the United Way continues to operate. The goal for the United Way campaign in Saint John this year is \$1.170 million and engineers and geoscientists can help make that goal a reality.

As many of us our painfully aware, the gap between the advantaged and the less advantaged continues to expand. The United Way helps to reduce this gap by funding charitable organizations right here in our own communities. These organizations help to build self-esteem, improve education, develop team spirit and provide shelter for those less advantaged than us.

As a United Way volunteer myself, I believe there are four good reasons to give to this organization:

1. **You are helping people who really need help.**
2. **The United Way makes sure the money you give is wisely spent.**
3. **Your United Way donation works right here in your own community.**
4. **The United Way can raise money collectively for its member agencies for far less than what it would cost to do it themselves.**



*United Way supports organizations like Big Brothers and Big Sisters. Big Brothers and Big Sisters have launched a successful mentor program for young, less advantaged children in our school system. (Here, we see **Dustin McGuire** from Grandview Avenue School in Saint John sharing a laugh with his mentor, **Gordon Kerr, P.Eng.**)*

If you would like to make the New Year happier for folks in your community, consider contributing to this year's United Way campaign. For more information on how you can help, call:

<b>Val Desjardins</b>	Fredericton	<b>(506) 451-7403</b>	ADI Ltd.
<b>Boyd Touchie, P.Eng.</b>	Moncton	<b>(506) 857-8525</b>	Touchie Engineering
<b>Gordon Kerr, P.Eng.</b>	Saint John	<b>(506)-635-0226</b>	Maritime Paper Products Ltd.



## Fredericton Branch Hosts WTC Speaker

By **Alana MacLellan-Bonnell, EIT, RJ Bartlett Engineering Ltd.**

**O**ver 70 Fredericton Branch members and guests gathered to hear **Dr. James A. Milke** discuss the World Trade Center's building performance during and after the September 11, 2001, disaster.

On October 3, 2002, **Dr. Milke**, a member of the Federal Emergency Management Agency (FEMA) Core Team of the World Trade Center Building Performance Study, presented the team's assessment of the buildings.

The purpose of their review was to better understand how and why some buildings collapsed while others survived with local or no collapse. The assessment also provided new information for the fire

protection and structural engineering communities about the behaviour of tall buildings when exposed to fire.

Dr. Milke's presentation, co-hosted by the Fredericton Branch and **RJ Bartlett Engineering**, also discussed the construction of WTC 1 and WTC 2 and the role it played in their collapse. The effect of the aircraft impact on the building, including the resulting fireball and the duration of the jet fuel fire, was also examined.

Dr. Milke concluded the discussion with a summary of the findings. A copy of this report can be obtained free of charge at [www.fema.gov](http://www.fema.gov) or by calling **1-800-480-2520**. ☺

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## ADI Wins Business Excellence Award



*Paul Morrison, centre, is pictured with other Business Excellence Award winners Anne Baldaro of Marriott Worldwide Reservation Centre (left) and Sherri Flanagan of CARIS.*

Fredericton's Chamber of Commerce presented ADI with the Business Excellence Award (Large Business category) during their annual Business Excellence Awards Dinner held in October.

**Paul Morrison**, P.Eng., president of ADI, said he was "truly honoured to receive the award on behalf of all ADI employees—each of whom have had a hand in our success." ☺

## New Brunswick Engineer's Research Takes Flight

A young New Brunswick engineer has won a prestigious national scholarship in support of his work to make air travel safer.

**Gabriel LaPlante**, P.Eng., a native of Ste-Rose, N.B., was honoured by the Canadian Council of Professional Engineers (CCPE) in November, when he received a \$10,000 CCPE-Manulife Financial Scholarship.

Currently pursuing a PhD in Mechanical Engineering at the University of New Brunswick, LaPlante hopes to develop new methods for detecting structural problems in the composite sandwich panels used to manufacture some military and civilian airplanes.

The panels, made by bonding graphite-epoxy facings to polymer or aluminum honeycombs, are frequently used to manufacture airplanes which must be both light and strong. But some of the panels used to manufacture military aircraft in Canada and the United States have disintegrated in mid-flight, resulting in catastrophic accidents.

LaPlante is studying why the adhesive bond sometimes fails and working on a non-destructive method, based on magnetic reso-



*(L to R)*

*Andrew McLeod; J. Allan Giberson, P.Eng.; Gabriel LaPlante, P.Eng.; Hollis Cole, P.Eng.*

nance, to detect sandwich panel degradation. Cost-effective, non-destructive methods to detect panel problems before in-flight failures occur could ultimately save many lives.

On completing his PhD, LaPlante, who has seven years experience with Bombardier Aerospace, intends to return to the private sector to contribute to the advancement of Canada's aerospace industry.

## Les recherches d'un ingénieur du Nouveau-Brunswick prennent leur envol

*Un jeune ingénieur du Nouveau-Brunswick a obtenu une prestigieuse bourse d'études nationale pour appuyer ses recherches visant à rendre le transport aérien plus sûr.*

<b>INGÉNIEURS (ES)</b>	<b>MÉCANIQUES</b> <b>TURBINE</b>
<p><b>Raymond Chabot</b> Ressources Humaines inc. Recrutement de cadres</p> <p>140, Grande-Allée Est bureau 200 Québec (Québec) G1R 5P7</p> <p>Téléphone : (418) 647-3297 télécopieur : (418) 647-3241</p> <p>Courriel : Recherchecadresqc@recrutement.ca</p>	<p>Notre client un leader incontesté dans le secteur de l'énergie, est à la recherche d'ingénieurs (es) chevronnés (es) pour occuper des postes de choix.</p> <p>La personne est responsable de suivre l'évolution des équipements et des systèmes turbine, analyser les paramètres, leur fonctionnement et leurs défaillances. Elle réalise des études afin d'optimiser la performance, la fiabilité et la facilité d'exploitation et d'entretien des systèmes. Elle prépare la planification détaillée pour réaliser les travaux d'entretien lors des arrêts annuels. Elle valide la mise en service après un entretien majeur ou une modification et faire les rapports techniques qui en découlent.</p> <ul style="list-style-type: none"> <li>• Baccalauréat en génie;</li> <li>• Posséder une bonne expérience des équipements de la partie conventionnelle d'une centrale nucléaire ou d'un plan thermique conventionnel;</li> <li>• Maîtriser la langue française.</li> </ul>
<b>S.V.P., VEUILLEZ INDIQUER LE NUMÉRO DE DOSSIER : 3326</b>	

En novembre dernier, le Conseil canadien des ingénieurs (CCI) a octroyé à **Gabriel LaPlante**, P.Eng., une bourse d'études CCI-Financière Manuvie en guise de reconnaissance des recherches que mène le natif de Ste-Rose, au Nouveau-Brunswick.

M. LaPlante, qui étudie actuellement en vue d'obtenir un doctorat en génie mécanique à l'Université du Nouveau-Brunswick, espère mettre au point de nouvelles méthodes capables de déceler les problèmes structurels susceptibles de survenir à l'intérieur des panneaux sandwichs en composite, panneaux utilisés dans la fabrication de certains avions militaires et civils.

Des alliages de graphite-époxyne recouvrant une âme de type nid d'abeilles composent les panneaux qui entrent dans la fabrication d'avions devant être à la fois légers et robustes. Or, quelques panneaux utilisés pour fabriquer des avions militaires au Canada et aux États-Unis se sont déjà désagrégés en plein vol, causant ainsi des catastrophes aériennes.

M. LaPlante tente de trouver les causes de la défaillance des adhésifs. Par ailleurs, ses travaux convergent vers la mise au point d'une méthode fondée sur la résonance magnétique capable de détecter la détérioration des panneaux sandwichs. La découverte de méthodes non destructives permettant de déceler les problèmes avant que ne se produise une défaillance en plein vol pourrait, un jour, sauver de nombreuses vies.

Une fois son doctorat en main, M. LaPlante, qui compte déjà sept années d'expérience chez Bombardier Aéronautique, a l'intention de retourner œuvrer au sein du secteur privé afin de participer au progrès de l'industrie aéronautique canadienne.

### UNB Forestry Engineering Professor Wins Teaching Award



**E.W. (Ted) Robak**

There are some professors who have the ability to truly inspire students and raise their learning experience to a whole new level.

One such professor is **E.W. (Ted) Robak**, P.Eng., who has taught in the faculty of forestry and environmental management at the University of New Brunswick in Fredericton since 1979.

On October 24, he received the Allan P. Stuart Award for Excellence in Teaching at the university's fall Convocation ceremony.

"I feel I have succeeded as a teacher when students improve their abilities to think clearly and solve real-world problems," he says. "I strive to teach students to be efficient and effective learners, since that is a skill they will always need to develop as good professionals and citizens."

Students praise Prof. Robak's contributions to the esprit de corps in the faculty, his role in producing high-quality graduates, and above all, his accessibility outside the classroom.

The Allan P. Stuart Award for Excellence in Teaching recognizes outstanding teaching on the basis of nominations from students and faculty members at UNB. It is named in honour of Allan Stuart, a respected professor of chemistry from 1946 to 1973 and one of the first recipients of an excellence in teaching award at the university.

### UNB Mechanical Engineering Professor named Professor Emeritus



**Huw Davies**

**Huw Davies**, P.Eng., a longtime mechanical engineering professor at UNB, joined the ranks of professors emeriti at the university's Convocation on October 24.

During his career at UNB in Fredericton, Dr.

Davies distinguished himself as a scholar, teacher and administrator. He joined the department of mechanical engineering in 1975, following eight years at the Massachusetts Institute of Technology as a researcher and faculty member. At UNB, Dr. Davies continued his active research program in vibration and acoustics, and in 1975 received the first unbroken series of grants from the Natural Sciences and Engineering Research Council of Canada.

Over the next 26 years, Dr. Davies supervised more than two dozen graduate students, published 45 papers in refereed journals, and presented 80 conference papers. He earned a reputation among students as an outstanding teacher and served as chairperson of his department for 10 years.

While he officially retired in August 2001, Dr. Davies continues his work as an honorary research professor in the department of mechanical engineering. ☺

## Changes to Log Books

### Attention EITs and GITs:

In order to provide an accurate review of your Log Book reports, the Internship Committee has prepared the EIT and GIT Progress Report Form. From now on, this form must be completed and accompany your three Log Book reports. All other Log Book procedures remain the same.

Please be reminded that Log Book submissions are to be made at six months, again at two years, and finally at three years (formerly, the 4 year-submission).

If you have any questions regarding this form or would like to obtain a copy of it, please contact **Michelle Westall** at 506-458-8083 or e-mail [michelle@apegnb.com](mailto:michelle@apegnb.com).

*NOTE: If you are not under the direct supervision of a Professional Engineer or Geoscientist, you need to be part of the Mentor Program and therefore, you do not complete this progress report form. This progress report is only for EITs/GITs as part of the Log Book program.*

OCTOBER 25, 2002 SHERATON INN FREDERICTON

APEGNB 10th Annual

## Awards Dinner

During the 10th Annual Awards Dinner, the Association of Professional Engineers and Geoscientists of New Brunswick (APEGNB) honoured the careers and educational accomplishments of 41 life members and seven students.



### LIFE MEMBERS

Standing:

**William Stothart, PEng; Richard S. Harrison, PEng; R. Gordon Baird, PEng; David Silliphant, PEng; J. Geoffrey Greenough, PEng; J. Claude MacKinnon, PEng; Raymond Lloyd, PEng; Malcolm MacFadyen, PEng; Dow Dorcas, PEng; Donald Yeamans, PEng; Frank Wilson, PEng.**

Seated:

**Glendon Crozier, PEng; R. Grant Watson, PEng; Brian Estey, PEng; Dale Bray, PEng; George Caissie, PEng; John Devlin, PEng; Malcolm MacLellan, PEng.**

Missing:

**Philip Allison, PEng; Stephen Bancroft, PEng; Cyril Carlin, PEng; Jerome Doherty, PEng; M. Peter Fitzpatrick, PEng; John Gardner, PEng; Gerhard Gloss, PEng; Arvid Landva, PEng; Donald MacLennan, PEng; Lloyd Marshall, PEng; William Mayberry Sr, PEng; Gerald Miller, PEng; Gilbert Oldham, PEng; Galen Parent, PEng; Russell Read, PEng; Charles Robichaud, PEng; Conrad Robichaud, PEng; Victor Ross, PEng; David Spear, PEng; W. Jeffrey Starr, PEng; Gary Stewart, PEng; Robert Warren, PEng; Graham Webb, PEng.**

Each life member has been a member in good standing of APEGNB for at least 35 years. They have built telecommunications systems, designed bridges, educated thousands of students and worked at the highest levels of government and industry. But most importantly, they have helped to make New Brunswick a better, safer place for its citizens.

The seven scholarship winners represent the future of engineering in New Brunswick. Their awards have been

### SCHOLARSHIP RECIPIENTS

(L to R) **Amélie Landry; Fati Kafui Aithnard; Gilles Cormier, PEng, Dean of Engineering, UdeM; Levi Hargrove; Laura Bostwick.**

Missing from photo:

**Ryan W. Frenette, Sylvain Ward, Jeffrey Kang**



made possible through the generosity of APEGNB members and the Association's Foundation for Education which supports and develops engineering and geoscience education in New Brunswick.

On behalf of our more than 4,000 members, congratulations to all of the APEGNB award recipients.

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If Dow Dorcas didn't receive a \$600 entrance scholarship to the University of New Brunswick in 1956, things may have turned out quite differently for the professional engineer and medical doctor.

"For one thing, it would have taken me a lot longer to get to university," says Dow. "Although my grades were good, my family wasn't rich. That first scholarship was certainly critical to my future."

Born in Stanley, New Brunswick, Dow went on to receive a number of other scholarships as well as his Bachelor's and Master's degrees in electrical engineering from the University of New Brunswick. In 1963, he was awarded yet another scholarship. This time it was the Lord Beaverbrook Overseas Scholarship which allowed him to pursue his doctoral studies at Imperial College in London, England.

In the first year of the PhD program, Dow's long-term interest in medicine prompted him to return home to New Brunswick. As a result of Canada's thalidomide crisis, an opportunity was presented by **Bob Scott**, PEng., for Dow to participate in a biomedical engineering project—developing myoelectric control systems for artificial limbs. Prerequisite courses for medicine were completed at UNB and Dow enrolled in Dalhousie University's Medical School

## "Scholarships make a difference." Dow Dorcas, MD, PEng



*Al Giberson, PEng, presents Dow Dorcas, PEng with his Life Membership on October 25, 2002, during the Awards Dinner in Fredericton.*

in 1966. He graduated with his M.D. in 1971 and immediately started a family practice in Fredericton, New Brunswick.

Since then, Dow has worked as a director of New Brunswick Hospitals' Medical Engineering Program, the staff physician at UNB, the chief of medical services at the Wolsung 1 Nuclear Power Plant Project in South Korea and held various senior medical positions at Ontario Hydro. From 1995 to 1997, he served as the vice-president of prevention and rehabilitation at the Workplace Health Safety and Compensation Commission of New Brunswick (WHSCC). He is now working as a medical consultant for the Workplace Safety and Insurance Board in Hamilton, Ontario.

"My education has taken me around the world," says Dow. "And it all started with the Honourable Frank Ross Scholarship in Grade 12."

With three of his own children university-educated (two are professional engineers), Dow believes finances are still one of the biggest hurdles for both high school and university students. "Even if they work while pursuing their degrees, students are still graduating with a massive debt load. I think that with the rising costs of tuition—scholarships, bursaries and prizes have never been more important."

Dow contributes regularly to various scholarship funds because he believes it's one way to keep students in school and less stressed. "Scholarships came through for me when I needed them. I want to make sure the doors are still open to tomorrow's engineers and doctors." ☺

**To find out how you can contribute to the education of future professional engineers and geoscientists, visit the APEGNB Foundation For Education web site: [www.apegnb.com/foundation](http://www.apegnb.com/foundation)**

### Seeking Employment

To request a résumé or more information on any candidate listed below, simply fax your organization's name and contact information along with the alpha-numeric code at the beginning of each listing to:

Michelle Westall  
Fax: 506-451-9629

#### CHEMICAL

**SE02-181** B.Sc. Chemical UNB2001; Reg'd EIT APEGNB; B.Sc. Chemistry, Houghton College, 1999. Experience in: manufacturing, responsible for quality control; pulp & paper, having completed an energy analysis of the Irving Paper Mill; presentation of project results, with seven years of customer-relations expertise. Computer fluency with word processing, spreadsheet, presentation, and database soft-

ware. Seeking employment offering customer exposure with opportunities for project management and design of process improvements - a strong team player, open to all opportunities in an engineering environment.

**SE02-702** B.Eng. Chemical RMC1993; B.Eng. Engineering Physics, Chemical and Materials option 1993 Royal Military College of Canada; Recently completed career as officer with Canadian Armed Forces. Wealth of leadership and management experience. Looking to find employment as a Project Manager or in a chemical/mechanical field.

#### CIVIL

**SE02-J251** B.Sc. Civil UNB 2001; Reg'd EIT APEGNB. Seeking full-time, entry-level employment in the environmental, construction, and/or geotechnical fields. Background in industrial air and water quality, environ-

mental legislation, report writing, site inspections, surveying, construction, and research.

**DE02-J251** B.Sc. Civil UNB 1997; Reg'd EIT APEGNB; Seeking employment in all aspects of engineering. Five years experience in transportation related work, including road design, field testing, writing reports, presenting results, data analysis, supervising, research, computers and asphalt/granular work. Work well in a group or unsupervised. Enjoy learning from others and take interest in finding new ways to accomplish a task at hand. Working long hours, on call, over time and travel is not a problem. Would consider relocating.

#### ELECTRICAL

**SE02-381** B.Sc. Electrical UNB 2001; Reg'd EIT APEGNB; Two years experience in Wireless Design in the Telecommunications Industry. Seeking full time employment in all aspects of



electrical engineering. Computer skills include Microsoft Office Programs, C++, MapInfo, Decibel Planner. Organized, self-motivated and effective communication skills.

**DE02-P400** B.Sc. Industrial University of British Columbia 1990; I am an engineering professional with over 9 years of Project Management experience in equipment design and mechanical, manufacturing and industrial engineering. I am currently looking for employment in Project/Program Management, Manufacturing/Industrial or Mechanical Engineering.

## MECHANICAL

**SE02-700** B.Sc. Mechanical UNB ongoing; Degree major in Forestry and Mechanical Engineering UNB ongoing. Extremely competent, hard working and self motivated individual. Have had experience in QA-QC, inspection, preparation of deficiency lists, supervision of labour, inventory and material allocation and management, CAD, and drawing checks. Seeking summer or full time employment in Fredericton area.

**SE02-481** B.Sc. Mechanical Michigan Technological U.1982; Reg'd P.Eng.

APEGNB; 20 years experience; Telecommunications (12 years), automotive, and pulp and paper. Range of experiences in project and product management, business development, contract development / negotiations, data network design, process design, IT systems design. Strong interpersonal and communications skills; team builder; ability to lead a multidisciplinary team towards a common goal.

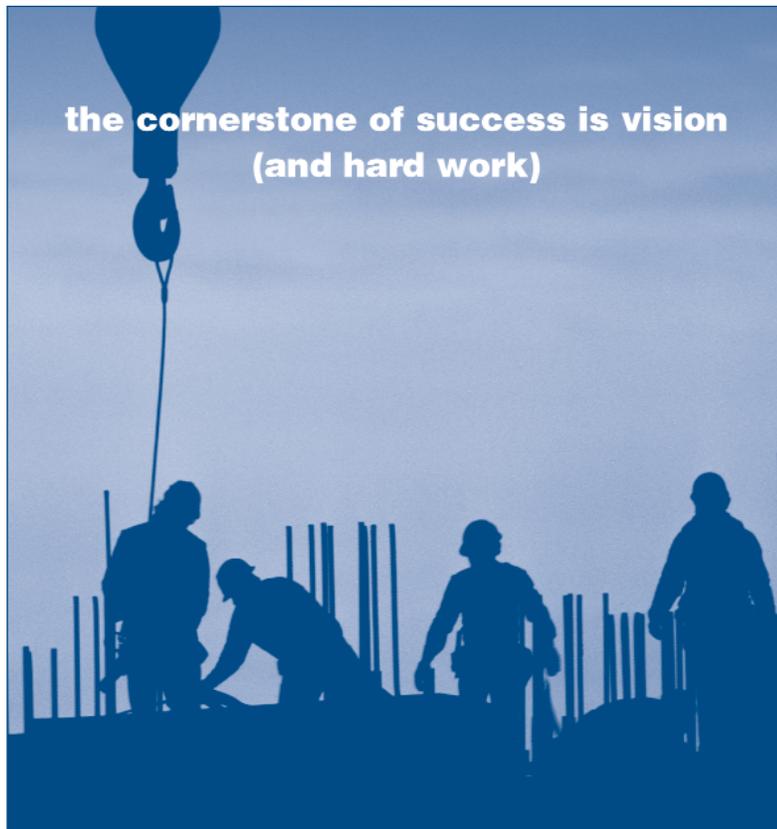
**SE02-J451** B.Sc. Mechanical UNB2001; Reg'd EIT APEGNB. Project Management experience with strong work ethic, self motivated, excellent problem solving skills. Proficient with most computer hardware/software including word processors, spreadsheets and CAD packages. Prefer to work in Fredericton-Saint John Area

**DE02-J451** B.Sc. Mechanical Université de Moncton 1995; M.A.Sc. (Mechanical - Materials) UdeM 2000; Experience in most mechanical and non-destructive testing methods, materials quality control, and R&D. Also over 4 years solid hands-on experience in every aspect of data networks, data security, WLAN. Experience in project management, staff supervision, developing procedures and more. Seeking full-time employment.

## OTHER

**DE02-J651** B.Sc.Eng. Computer (Hardware) Royal Military College 1994; Reg'd EIT APEGNB; I am looking for permanent employment or contract work in NB, NS, eastern Quebec or contract work offshore or overseas. I am an ex-naval officer and for the last two years I have been working with low voltage control systems, PLCs, operator interfaces, industrial networks, wireless networks and designing control panels. My skills include AutoCAD, Ladder Logic Programming, MS Windows 95/98/NT/XP, MS Word, Excel, Project, Access and spread spectrum radios.

**DE02-700** B.Sc. Computer UNB 2002; Practical experience with PLCs, ladder logic programming, motor control centres, variable speed drives and other control system hardware. Senior thesis project "Modeling of Analog and Mixed Signal Circuits Using Verilog-A". ☺



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CLARK, Kenneth G., P.Eng.  
COLE, Barry, P.Eng.  
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DOWDING, Stephen P., P.Eng.  
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### News, Views and You

Did your company or one of your staff members receive an award?

Have you recently completed a project you think would interest your colleagues?

Is there a topic that you would like to see covered in the next issue of *Engenuity*?

Did your branch host an interesting guest speaker and you'd like to write an article about it?

I'd like to hear from you! The next issue of *Engenuity* comes out in March so please send your information by February 1, 2003.

Melissa Mertz, Editor  
*Engenuity*

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*\*Your letter should be short and to the point. Engenuity reserves the right to edit for clarity and length. All photos MUST be in print format.*

*"Congratulations, you did it again! Engenuity arrived this morning...I grabbed it and scanned all the articles. What a difference a year makes! It is well laid-out, attractive, easy-to-read and most importantly—full of news. Keep up the good work."*

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*"I have read the September Engenuity magazine from cover to cover. What an outstanding job and I am truly impressed with the variety of articles, their presentation and APEGNB announcements."*

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**Quest 4 Adventure Day**



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