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ENGENUITY

1920 - 2010

THE SOURCE OF ENGINEERING AND GEOSCIENCE NEWS IN NEW BRUNSWICK
LA SOURCE D'INFORMATION EN INGÉNIERIE ET GÉOSCIENCE DU NOUVEAU-BRUNSWICK

N°143-Spring 2010 / *N° 143-pringtemps 2010*

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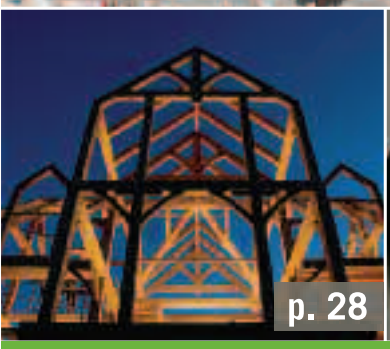

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BRUCE BROSTER, P.GEO., FEC (HON.)

PRESIDENT'S MESSAGE

Thank you for the opportunity to serve as APEGNB's 90th president. It will be an honour to represent our members at provincial and national events during this milestone year in the Association's history.

I would like to acknowledge the contributions of several people who have worked hard toward the advancement of our Association and are now leaving Council.

First we are indebted to **Tanya Horgan**, P.Eng./P.Geo., our outgoing past president who has been a member of Council since 2002. This included two terms as a representative for the Saint John District and three years in the roles of vice-president, president, and past president. Her energy and enthusiasm will certainly be missed.

Also leaving us are councillors **Mark Bellefleur**, P.Eng.; **Ray Ritchie**, P.Eng. and **Mireille Vautour**, P.Eng., as well as our former geoscientist-at-large, **Earnest Brooks**, P.Geo.; and lay councillor **Christa Bourque**, LL.B. Their camaraderie and valuable input to Council has been much appreciated.

Dr. Eldo Hildebrand, P.Eng., is now assuming a new role as past president. I thank Eldo on behalf of Council for his dedication during his presidency and for his continuing service in representing the Association when the president is asked to appear at two different events on the same day.

On behalf of the Association I welcome our new Council members: **Mathieu Breau**, MIT; **Annie Daigle**, P.Eng./P.Geo.; **Marc Laforge**, P.Eng.; **Ken Thibodeau**, MIT; lay councillor **George Filliter,** LL.M. and our new vice-president, **Darryl Ford**, P.Eng. I am certain that APEGNB will continue to advance our mandate using fresh perspectives and a cooperative approach on all issues.

*(L to R): **Mireille Vautour,** P.Eng. (former Northwestern Councillor); **Earnest Brooks**, P.Geo. (former Geoscientist-At-Large); **Eldo Hildebrand**, P.Eng. (outgoing president); **Ray Ritchie**, P.Eng. (former Northeastern Councillor); **Paul Holah**, P.Eng. (re-elected in 2010 for a second term representing Saint John); **Mark Bellefleur**, P.Eng., (former Moncton Councillor).*

2010 ANNUAL MEETING

Congratulations to the organizers, volunteers, APEGNB staff and members in attendance, for making our 90th Annual Meeting in Moncton a success. A special thank you is in order for **Michael Gillis**, P.Eng., chair of the event's organizing committee. Due to the good venue and reasonably decent February weather, approximately 170 members attended the Annual Meeting, recognition luncheon, professional development session, and awards banquet.

Awards presented at the Annual Meeting included the:

- C.C.Kirby Award—presented to **Hollis Cole**, P.Eng., FEC.;
- Corporate Award of Excellence—presented to **ADI Systems Inc.**;
- Individual Awards of Merit for Technical Excellence—presented to **Conrad Allain**, P.Eng. and **Dean Thibault**, P.Eng.;
- Support of Women in Engineering Award—presented to **Sherry Sparks**, P.Eng., FEC.

Details of the awards and citations are published in the 2010

*(L to R) I was pleased to help outgoing APEGNB president **Eldo Hildebrand**, P.Eng. (centre) and Engineers Canada president **Dan Motyka**, P.Eng., (right) officially kick off our Association's 90th birthday celebrations with the cutting of the anniversary cake at the Annual Meeting in Moncton in February.*

Annual Magazine mailed to members in early February.

The Annual Meeting was followed by the professional development session titled *Climate Change: Cap and Trade*. Approximately 130 APEGNB members listened as climate change expert, **John Drexhage**, delivered an engaging presentation on emissions trading, New Brunswick's and Canada's policy responses to climate change and what the future holds in terms of mitigation and adaptation.

SYNERGY TASK FORCE

Immediately following our Annual Meeting, our executive director, **Andrew McLeod**, and I traveled to Ottawa to attend the Engineers Canada plenary session and discussion of the Synergy Task Force proposals. The Task Force has been working since December 2008 reviewing governance and renewal. **Brent Smith**, P.Eng., APEGNB's Engineers Canada director, is a member of the Task Force and has kept our Council and membership current regarding discussions of proposed changes that could impact our Association.

Both Engineers Canada and Geoscientists Canada are pursuing parallel activities including strategic planning and exploring methods to facilitate mobility and assessment of international professionals.

ANNUAL MLA RECEPTION

Through many years of effort by previous presidents and Council, we have acquired a position of strong communication between our Association and the provincial government. As new issues arise, we will continue to meet with government representatives to ensure that APEGNB's concerns are given priority.

Annually, APEGNB holds a reception to thank the MLAs for their work on our behalf and to promote the benefits of engineering and geoscience to the public. This year's reception was again held at the Crowne Plaza Lord Beaverbrook Hotel on March 24. It was another great success with numerous cabinet ministers, MLAs and senior regulatory officials in attendance. The reception allowed us to extend our appreciation to the New Brunswick government for bringing forward the Limitation of Actions Act (Bill 28). It is our understanding that the Act will be proclaimed law on May 1, 2010.

UPCOMING EVENTS

For nine decades, APEGNB has been a progressive model for professional self-governance. It is an accomplishment that many have contributed to and that we all can take pride in. It is Council's intention to use our 90th anniversary to share many of our accomplishments with the public and to highlight the professional and community activities of our members. I encourage all members to actively promote our professions to the public and to take pride in using their P.Eng. and/or P.Geo. designations whenever possible. Our Association relies heavily on volunteers for committees and many of our other activities. I also encourage members to become actively involved in volunteerism and pride of membership.

As president, I plan to represent the Association at the TD Meloche Monnex client appreciation dinner in Halifax; the Engineers Canada Annual Meeting in Vancouver; and at the annual meetings of the Professional Engineers and Geoscientists of Newfoundland and Labrador and the Professional Engineers of Ontario in May, as well as the Canadian Council of Professional Geoscientists in Yellowknife in June.

With the warm weather on our doorsteps, I hope to meet many APEGNB members at upcoming Branch events.

*This year, APEGNB awarded 50 Life Memberships. (Each life member has been a member in good standing of APEGNB for at least 35 years.) I was honoured to be able to present Life Member Awards to 12 of those individuals including **Roland Richard,** P.Eng. (right).*

BRUCE BROSTER, GÉOSC., FIC (HON.)

MESSAGE DU PRÉSIDENT

Merci de m'accorder le privilège de vous servir à titre de 90e président de l'AIGNB. Je serai très honoré de représenter nos membres aux événements provinciaux et nationaux au cours de cette année qui sera marquante dans l'histoire de notre association.

J'aimerais signaler l'apport de plusieurs personnes qui ont travaillé fort pour l'avancement de notre association, mais qui quittent maintenant le Conseil.

Nous sommes tout d'abord redevables à **Tanya Horgan**, ing. et géosc., notre ancienne présidente sortante qui est membre du Conseil depuis 2002. Cela comprend deux mandats en tant que représentante de la section de Saint John et trois années à la vice-présidence, à la présidence et en tant que présidente sortante. Son énergie et son enthousiasme vont nous manqué.

Parmi les membres du conseil qui nous quittent, notons aussi **Mark Bellefleur**, ing., **Ray Ritchie**, ing., et **Mireille Vautour**, ing., ainsi que notre ancien représentant provincial des géoscientifiques, **Earnest Brooks**, géosc., et la conseillère hors profession, **Christa Bourque**, LL. B. Leur amitié et leur précieux apport au Conseil ont été très appréciés.

Eldo Hildebrand, ing., assume dorénavant un nouveau rôle en tant que président sortant. Au nom du Conseil, je tiens à remercier Eldo de son dévouement pendant sa présidence et de ses nombreux services à représenter l'association quand le président est sollicité à deux différents événements le même jour.

Au nom de l'association, je souhaite la bienvenue aux nouveaux membres du Conseil : **Mathieu Breau**, membre stagiaire; **Annie Daigle**, ing. et géosc.; **Marc Laforge**, ing.; **Ken Thibodeau**, membre stagiaire; le conseiller hors profession, **George Filliter**, LL.M., et notre nouveau vice-président, **Darryl Ford**, ing. Je suis confiant que l'AIGNB continuera de faire progresser notre mission en apportant de nouvelles perspectives et une approche de collaboration à tous les enjeux.

*Dans l'ordre habituel : **Mireille Vautour**, ing. (conseillère sortante du Nord-Ouest); **Earnest Brooks**, géosc. (ancien représentant provincial des géoscientifiques); **Eldo Hildebrand**, ing. (président sortant); **Ray Ritchie**, ing. (conseiller sortant du Nord-Est); **Paul Holah**, ing. (réélu en 2010 à un second mandat comme représentant de Saint John) et **Mark Bellefleur**, ing., (conseiller sortant du de Moncton).*

ASSEMBLÉE ANNUELLE 2010

Nos félicitations aux organisateurs, aux bénévoles, au personnel de l'AIGNB et aux membres qui y ont assisté, d'avoir fait de notre 90e assemblée annuelle à Moncton un succès. Un remerciement spécial à **Michæl Gillis**, ing., président du comité organisateur de l'événement. Étant donné la qualité de l'emplacement et la température plutôt clémente de février, environ 170 membres se sont rendus à l'assemblée annuelle, au dîner de la reconnaissance, à la session de perfectionnement professionnel et au banquet de remise des prix.

Parmi les prix décernés lors de l'assemblée annuelle, notons :

- le prix C.C.Kirby — remis à **Hollis Cole**, ing., FIC;
- le prix d'excellence à l'entreprise — décerné à **ADI Systems Inc.**;
- le prix d'excellence technique (particulier) — décerné à **Conrad Allain**, ing. et à **Dean Thibault**, ing.;
- le prix de soutien aux femmes ingénieures — remis à **Sherry Sparks**, ing., FIC.

*Il m'a fait plaisir d'aider le président sortant de l'AIGNB, **Eldo Hildebrand**, ing. (au centre) et le président d'Ingénieurs Canada, **Dan Motyka**, ing. (à droite), à lancer officiellement les célébrations du 90e anniversaire de notre association en coupant le gâteau anniversaire lors de l'assemblée annuelle à Moncton en février.*

On trouvera des précisions sur les prix et sur les témoignages de reconnaissance dans le magazine annuel de 2010 envoyé aux membres au début février.

L'assemblée annuelle a été suivie d'une session de perfectionnement professionnel intitulée *Changement climatique: plafonnement des émissions et échange de droits d'émission*. Environ 130 membres de l'AIGNB ont entendu le spécialiste du changement climatique, **John Drexhage**, présenter un exposé accrocheur sur les échanges de droits d'émission, sur les réactions du Nouveau-Brunswick et du Canada en matière de politiques sur le changement climatique et sur ce que nous réserve l'avenir en termes d'atténuation et d'adaptation.

GROUPE DE TRAVAIL SUR LA SYNERGIE

Immédiatement après notre assemblée annuelle, je me suis rendu avec notre directeur général, **Andrew McLeod**, à Ottawa pour assister à la séance plénière d'Ingénieurs Canada discuter des propositions du groupe de travail sur la synergie. Le groupe de travail est à l'œuvre depuis décembre 2008 à étudier la gouvernance et le renouvellement. Le représentant de l'AIGNB auprès d'Ingénieurs Canada, **Brent Smith**, ing., est membre du groupe de travail et il a tenu notre Conseil et nos membres au fait des discussions sur les changements proposés qui pourraient avoir une incidence sur notre association.

Ingénieurs Canada et Géoscientifiques Canada ont des activités parallèles, dont la planification stratégique et l'exploration de méthodes pour faciliter la mobilité et l'évaluation des professionnels étrangers.

RÉCEPTION ANNUELLE À L'INTENTION DES DÉPUTÉS

Grâce à des années d'effort des anciens présidents et Conseils, nous en sommes arrivés à de très bonnes communications entre notre association et le gouvernement provincial. À mesure que de nouveaux enjeux surgissent, nous continuerons de rencontrer les représentants gouvernementaux pour nous assurer que les préoccupations de l'AIGNB soient considérées en priorité.

Chaque année, l'AIGNB organise une réception pour remercier les députés de leur travail en notre faveur et pour promouvoir les retombées avantageuses du génie et des sciences de la Terre auprès du public. Cette année, la réception a encore une fois eu lieu au Crowne Plaza Lord Beaverbrook le 24 mars. Ce fut encore une réussite, de nombreux membres du Conseil des ministres, députés et agents cadres chargés de la réglementation s'y étant présentés. La réception nous a permis d'exprimer notre reconnaissance au gouvernement du Nouveau-Brunswick d'avoir adopté la *Loi sur la prescription* (le projet de loi 28). Nous croyons savoir que cette loi sera promulguée le 1er mai 2010.

ACTIVITÉS À VENIR

Pendant neuf décennies, l'AIGNB a fait figure de modèle progressiste en matière d'autorégulation professionnelle. Il s'agit d'une réalisation à laquelle plusieurs ont contribué et dont nous pouvons tous être fiers. Le Conseil a l'intention de profiter de notre 90e anniversaire pour faire part de plusieurs de nos réalisations au public et mettre en valeur les activités professionnelles et communautaires de nos membres. J'invite tous les membres à faire une promotion dynamique de nos professions auprès du public et d'utiliser fièrement leur désignation « ing. » ou « géosc. » chaque fois qu'ils le peuvent. Notre association compte beaucoup sur les bénévoles pour ses comités et pour plusieurs de ses autres activités. J'invite aussi les membres à s'engager dans des activités bénévoles et à manifester leur fierté à l'endroit de leur association.

En tant que président, je prévois représenter l'association au dîner de reconnaissance de ses clients de TD Meloche Monnex à Halifax; à l'assemblée annuelle d'Ingénieurs Canada à Vancouver, et aux assemblées annuelles des associations professionnelles des ingénieurs et des géoscientifiques de Terre-Neuve-et-Labrador et des ingénieurs de l'Ontario en mai, ainsi qu'à la réunion du Conseil canadien des géoscientifiques professionnels à Yellowknife en juin.

Avec le beau temps qui s'annonce, j'espère rencontrer de nombreux membres de l'AIGNB lors des prochaines activités des sections.

*Cette année, l'AIGNB a reçu cinquante membres à vie. Chaque membre à vie a été membre en règle de l'AIGNB pendant au moins 35 ans. J'ai eu l'honneur de décerner le titre de membre à vie à douze de ces personnes, dont **Roland Richard**, ing. (à droite).*

FREDERICTON BRANCH

TAMMY LAMEY, P.ENG., CHAIR

ROUNDUP

JANUARY 28, 2010

Branch Annual Meeting & Dinner, Delta Fredericton

Nearly 70 members and their partners attended our annual meeting and dinner. A reception was held prior to dinner with music provided by The Garry Hansen Trio. The buffet prepared by the Delta—notably the seafood display—was top shelf!

Along with our thanks and appreciation to our outgoing 2009 Branch Council, we presented our new 2010 council and 2010 events. We also announced the recipients of the two annual scholarships sponsored by the Fredericton Branch.

The **William L. Barrett Scholarship** was awarded to **Mark Alexander Feero** of Fredericton who is currently enrolled in his second year of mechanical engineering at the University of New Brunswick in Fredericton (UNB-F).

The **Stanley B. Cassidy Memorial Scholarship** was awarded to **Justin Deveau** of Fredericton who is currently enrolled in his third year of chemical engineering at UNB-F. Congratulations to both of you!

Penny Ericson from the Charlotte Street Art Centre made a special presentation to the group with photos from last year's 1st **Annual Haunted Tour**. Expect scary things this fall on Charlotte Street!

***Elaine Leclerc**, HSC Training and Consulting*

At the end of the evening, we enjoyed the humorous narrative and surprising accuracy of our guest speaker, **Elaine Leclerc**, president of HCS Training and Consulting. She delivered a funny presentation on the differences between the generations and how Traditionalists, Boomers, Gen-Xers and Millennials interact with one another and what makes us tick.

FEBRUARY 25, 2010

2nd Annual Family Ski Night at Crabbe Mountain

Skiers had a fun time on the bus, on the slopes, and at the lodge! There was anticipation of bad weather the day before the event and many groups dropped out, but the weather turned out great for both the drive up and the skiing! The bus left UNB's campus student union building on Thursday afternoon. Après-ski, everyone gathered in the lodge for drinks, nachos and pizza. A special thank you to **Alain Cormier**, P.Eng., for organizing this event. Ski Night has been a great addition to our annual events. This is a wonderful winter activity for members and their families who want to do something different, mingle with fellow APEGNB members, and get some fresh air and exercise.

***Alain Cormier**, P.Eng., organizer of Ski Night at Crabbe Mountain*

MARCH 26-28, 2010

Atlantic Engineering Hockey Tournament, PEI

Two teams travelled to Prince Edward Island from the Fredericton area: the Fredericton Pylons and the Stantec Iron Ringers. This event provided a rare opportunity for participants to network with engineers from across the region. Fredericton-based engineers have been very well represented at this event in the past, and their teams have even managed to capture first place in each of the past two years. At press time, we're hoping they made it a trophy *threepeat*!

APRIL 7, 2010

Curling Night at Capital Winter Club

Curlers and non-curlers were welcomed! This was originally scheduled for late March but we had a venue change this year due to unexpected warm weather. (Nobody complained about that!) So we pushed our curling event to April. Participants enjoyed chili, rolls and drinks to get warmed up. Then two-time curling night volunteer, **Jared McGinn**, P.Eng., matched up the teams, handed out instructions to first time curlers and reminded everyone that after the games, tradition holds that the winners buy the losers a drink! **Bethanie Parker**, P.Eng., organized the lively evening and will provide us with a follow-up report for the summer issue of *Engenuity*.

UPCOMING

MAY 2010

Technical Tour

TBD – Keep an eye on your email inbox. **Phil Lamey**, P.Eng., our communications guy, may soon be sending you details about a technical tour.

JUNE 2010

Eng-y Chili Cook-Off at Odell Park patio

Expect your taste buds to be tested with the lunchtime chili cook-off at Odell Park this summer. Members will be invited to enter their secret chili recipes but tasters will have the most fun as they are asked to vote for the best and the hottest chili. No charge to taste (lots to eat) but donations will be accepted for the Fredericton Food Bank. We will do our best to pick a gorgeous sunny Friday afternoon at the Park.

Entering Darien Gap, Panama

Arenal, Costa Rica

SHOUT-OUT

Congratulations to **Tony Hamill**, P.Eng., and **Peter Wedge**, P.Eng., for successfully travelling 10,000 kms on motorcycles through Central America with only one motor vehicle collision and without getting sick. Maybe we will hear more about their trip in the next issue of *Engenuity*. For now, these photos will have to suffice!

***Tony** and **Peter** stand in front of a bubbling lava flow in Guatemala.*

***Tony** and **Peter** in Yaviza, Panama.*

2010 BRANCH EXECUTIVE

Position	Name/Designation
Chair	**Tammy Lamey**, P.Eng.
Vice chair	**Kent Wiezel**, P.Eng.
Treasurer	**Margaret Loughrey**, P.Eng.
Secretary	**Bethanie Parker**, P.Eng.
Past chair	**Bill Lamey**, P.Eng.
Councillor	**Alain Cormier**, P.Eng.
Councillor	**Erica Gorman**, MIT
Councillor	**Jonathan Keizer**, P.Eng.
Councillor	**Peter Wedge**, P.Eng.
Councillor	**Jean-Frédéric Lalonde**, P.Eng.
Councillor	**Andy Small**, P.Eng.
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Military Representative	**Michael Hocquard**, P.Eng.
MIT Representative	**Christina Flogeras**, MIT
MIT Representative	**Kevin Beattie**, MIT
Multi-cultural liaison	**Maikel Bonilla-Rodriguez**, P.Eng.
Provincial Representative	**Tom MacNeil**, P.Eng.
Provincial Representative	**Jean Boudreau**, P.Eng.
Event Committee	**Michael Cyr**, P.Eng.
Event Committee	**Sean Bartlett**, P.Eng.
Event Committee	**Vernon Banks**, P.Geo.
Event Committee	**Lynn Pilgrim**, P.Geo.
Event Committee	**Shereen Ismail**, P.Eng.
UNB EUS Representative	**Mike Wies**, EUS VP

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For more information on upcoming Branch events... to add your name to our mailing list... or to submit ideas on how your Branch can better serve you, contact one of your Branch executive or:

EMAIL
Tammy Lamey, P.Eng.
Branch Chair
tammy.lamey@gnb.ca

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SECTION DE Fredericton BRANCH APEGNB AIGNB

SECTION DE FREDERICTON

TAMMY LAMEY, ING., PRÉSIDENTE

RÉCAPITULATION

LE 28 JANVIER 2010

Assemblée et banquet annuels de la section au Delta Fredericton

Près de 70 membres accompagnés de leurs conjoints ont assisté à notre assemblée et à notre banquet annuels. Le banquet était précédé d'une réception au son de la musique du trio de Garry Hansen. Le buffet préparé par le Delta, notamment le plateau de fruits de mer, était de toute première classe!

En plus d'exprimer nos remerciements et notre reconnaissance à l'endroit des membres sortants du conseil de section de 2009, nous avons présenté les membres de notre nouveau conseil et les activités de 2010. Nous avons aussi annoncé le nom des récipiendaires des deux bourses d'études annuelles commanditées par la section de Fredericton.

La **bourse d'études William L. Barrett** a été attribuée à **Mark Alexander Feero** de Fredericton qui est à l'heure actuelle inscrit en deuxième année de génie mécanique à l'Université du Nouveau-Brunswick à Fredericton (UNB-F).

La **bourse d'études commémorative Stanley B. Cassidy** a été décernée à **Justin Deveau** de Fredericton qui est présentement en troisième année de génie chimique à l'UNB-F. Nos félicitations à tous les deux!

Penny Ericson du Centre d'art de la rue Charlotte a fait pour le groupe une présentation spéciale constituée de photos de la 1ère **visite guidée hantée** de l'an dernier. Attendez-vous à des frissons cet automne sur la rue Charlotte!

***Elaine Leclerc**, HSC Training and Consulting*

À la fin de la soirée, nous avons adoré le récit humoristique et l'étonnante exactitude de notre oratrice invitée, **Elaine Leclerc**, présidente de *HCS Training and Consulting*. Elle a livré un exposé hilarant sur les différences entre les générations et comment les vieux-jeux, les bébés-boomers, la génération X et les « enfants du millénaire » interagissent et ce qui nous motive.

LE 25 FÉVRIER 2010

2e Soirée annuelle de ski en famille à Crabbe Mountain

***Alain Cormier**, ing., organisateur de la soirée annuelle de ski à Crabbe Mountain*

Les skieurs ont eu du plaisir en autobus, sur les pentes et au pavillon! La veille, on prévoyait du mauvais temps et de nombreux groupes ont abandonné, mais le climat s'est avéré fantastique tant pour la balade routière que pour le ski! L'autobus a quitté l'immeuble de l'association étudiante sur le campus de l'UNB jeudi après-midi. Après le ski, tous se sont regroupés au pavillon pour prendre un verre et déguster des nachos et de la pizza. Un grand merci à **Alain Cormier**, ing., d'avoir organisé cette activité. La soirée de ski est un magnifique ajout à nos activités annuelles. Il s'agit d'une fabuleuse sortie hivernale pour les membres et leur famille qui souhaitent essayer quelque chose de neuf, fréquenter d'autres membres de l'AIGNB et profiter d'un peu d'exercice au grand air.

DU 26 AU 28 MARS 2010

Tournoi de hockey des ingénieurs de l'Atlantique (Î.-P.-É.)

Deux équipes de la région de Fredericton se sont rendus à l'Île-du-Prince-Édouard : les Pylons de Fredericton et les Stantec Iron Ringers. Cette activité a donné la chance aux participants d'établir des liens avec des ingénieurs de l'ensemble de la région. Les ingénieurs de la région de Fredericton ont été très bien représentés à cet événement par le passé et leurs équipes ont même réussi à s'emparer du premier rang ces deux dernières années. Au moment d'aller sous presse, nous espérons qu'ils remporteront le trophée une troisième fois!

LE 7 AVRIL 2010

Soirée de curling au *Capital Winter Club*

Tant les joueurs que les non-joueurs de curling étaient les bienvenus! On avait d'abord programmé cette activité pour la fin mars, mais il a fallu changer d'endroit cette année à cause des chaudes températures inattendues. (Personne ne s'en est plaint!) Nous avons donc reporté notre activité de curling au mois d'avril. Les participants ont dégusté du chili, des petits pains et des boissons pour se réchauffer. Bénévole pour la deuxième fois à cette soirée de curling, **Jane McGinn**, ing., a réparti les équipes, donné des instructions à ceux qui jouaient au curling pour la première fois et a rappelé à tous qu'après les matchs, la tradition veut que les gagnants achètent un verre aux perdants! **Bethanie Parker**, ing., avait organisé cette soirée animée et elle nous en fera un compte rendu dans l'édition estivale de *Engenuity*.

À l'entrée du bouchon de Darién au Panama

À VENIR

MAI 2010

Visite technique guidée

À établir – Gardez votre boîte de réception de courrier électronique à l'œil. **Phil Lamey**, ing., notre gars aux communications, vous enverra peut-être bientôt des précisions au sujet d'une visite technique guidée.

JUIN 2010

Concours « Eng-y » du meilleur chili à la terrasse du parc Odell

Attendez-vous à faire frétiller vos papilles cet été lors du concours du meilleur chili à la terrasse du parc Odell. On invitera les membres à soumettre leurs recettes de chili secrètes, mais ce sont les goûteurs qui auront le plus de plaisir, car on leur demande de voter pour choisir le meilleur et le plus épicé des chilis. Il n'en coûte rien pour goûter (de la nourriture en masse), mais on acceptera des dons pour la banque alimentaire de Fredericton. Nous ferons tout en notre possible pour choisir un superbe vendredi après-midi ensoleillé au parc.

BUREAU DE DIRECTION 2010 DE LA SECTION

Poste	Nom et désignation
Présidente	**Tammy Lamey**, ing.
Vice-président	**Kent Wiezel**, ing.
Trésorière	**Margaret Loughrey**, ing.
Secrétaire	**Bethanie Parker**, ing.
Président sortant	**Bill Lamey**, ing.
Conseiller	**Alain Cormier**, ing.
Conseillère	**Erica Gorman**, ms
Conseiller	**Jonathan Keizer**, ing.
Conseiller	**Peter Wedge**, ing.
Conseiller	**Jean-Frédéric Lalonde**, ing.
Conseiller	**Andy Small**, ing.
Communications	**Phil Lamey**, ing.
Représentant des militaires	**Michael Hocquard**, ing.
Représentants des membres stagiaires	**Christina Flogeras**, ms
	Kevin Beattie, ms
Liens multiculturels	**Maikel Bonilla-Rodriguez**, ing.
Représentant provincial	**Tom MacNeil**, ing.
Représentant provincial	**Jean Boudreau**, ing.
Comité des activités	**Michael Cyr**, ing.
Comité des activités	**Sean Bartlett**, ing.
Comité des activités	**Vernon Banks**, géosc.
Comité des activités	**Lynn Pilgrim**, géosc.
Comité des activités	**Shereen Ismail**, ing.
Représentant de l'Association des étudiants de premier cycle en génie (Engineering Undergrad Society; EUS) de l'UNB	**Mike Wies**, v.-p. d'EUS

Arenal au Costa Rica

SUR TOUS LES TOITS

Nos félicitations à **Tony Hamill**, ing., et à **Peter Wedge**, ing., d'avoir réussi à faire plus de 10 000 km pour traverser l'Amérique centrale à motocyclette avec une seule collision et sans tomber malade. Peut-être entendrons-nous parler un peu plus de leur périple dans le prochain numéro de *Engenuity*. Pour le moment, ces photos devront faire l'affaire!

***Tony** et **Peter** devant un écoulement de lave bouillonnante au Guatemala*

***Tony** et **Peter** à Yaviza au Panama*

POUR EN SAVOIR PLUS

Pour d'autre information au sujet des prochaines activités de la section, pour faire ajouter votre nom à notre liste d'envoi ou pour donner des idées sur des manières dont la section peut mieux vous servir, communiquez avec un des membres du comité de direction de votre section ou :

COURRIER ÉLECTRONIQUE

Tammy Lamey, ing., présidente de la section
tammy.lamey@gnb.ca

CONSULTEZ LE SITE WEB :

www.engineersfredericton.ca
www.geoscientistsfredericton.ca
Facebook : section de la région de Fredericton (AIGNB)

APEGNB AIGNB
SECTION DE Fredericton BRANCH

NORTHWESTERN BRANCH

KARINE SAVOIE, P.ENG., CHAIR

ROUNDUP

FEBRUARY 18 & 19, 2010
APEGNB Annual Meeting and Banquet

This past February, I attended the APEGNB Annual Meeting in Moncton. I must say, it was, yet again, a very enjoyable activity. Thursday night's entertainment was fun, the meeting went well, the technical session was interesting and the food and wine served at Friday night's banquet were delicious! Apart from the business of the actual meeting, it is always enjoyable to meet up with people whom you haven't seen in years. It's interesting to find out what fellow members, and/or ex-classmates have been up to since graduating from university and embarking on their careers.

MARCH 10, 2010
"How will Climate Change Impact NB's Infrastructure" Workshop

This workshop revolved around risk assessment studies of the possible impacts of climate change on our infrastructure. It was certainly an eye-opening day. The subject matter sparked some interesting conversations. Four cases that have already been studied were presented and gave us an idea of how different the risks and impacts will possibly be in different parts of the country. Well done to APEGNB and Engineers Canada for such a timely workshop!

MARCH 18, 2010
Northwestern Branch Executive Council Meeting

A Branch meeting was held at the Roy Consultants office in Edmundston. Seven Branch council members were present. (See picture). We discussed the February APEGNB Annual Meeting. We talked about how our world record for the biggest igloo was recently broken by a group of Americans from Wisconsin and how we plan to win the record back next year. Also on the agenda were upcoming branch activities. We decided to cancel the visit to the maple sugar shack due to low response, and also due to the probable early end of maple sugar season. Instead, we decided to concentrate on making the annual golf tournament a real winning event.

(L to R) ***Jean-Louis Daigle****, P.Eng.;* ***Georges Roy****, P.Eng.;* ***Mireille Vautour****,P.Eng.;* ***Mariette Savoie****, P.Eng.;* ***Marc Laforge****, P.Eng.;* ***Martin Benoit****, P.Eng.;* ***Karine Savoie****, P.Eng.;* ***Alain Pelletier****, P.Eng.. (Missing from the photo are* ***Eric Ouellette****, P.Eng. and* ***Richard Daigle****, MIT)*

UPCOMING

MAY 2010
Northwestern Branch Annual Meeting and Supper

We plan on holding this year's annual meeting and supper at the end of May 2010. The location will probably be in Edmundston and the proposed presentation is the work being done at the Edmundston electrical dam. More details to follow.

SUMMER 2010
Zip Zag Grand Opening

Eric Ouellette, P.Eng., lead organizer of the APEGNB Igloo Building Competition, has started another unique outdoor project. After working all winter on the design, he will be opening the Northwestern region's first zip line. Zip Zag will take thrill seekers on a breathtaking zip line adventure across the beautiful Grand Falls Gorge. According to Eric, things are on schedule. He expects to have riders zipping across the Gorge by early summer. You can visit his new web site at *www.zipzag.ca* for more information. Can't wait to try it out!

END OF JUNE 2010 (TENTATIVE)
Wind Farm Visit

We are tentatively planning a visit to the new wind farm, located between St-Quentin and Bathurst, off the Resources Road. The Branch has discussed trying to make this a joint visit with the Northeastern Branch. More details to come.

SEPTEMBER 2010
2nd Annual Northwestern Branch Golf Tournament

This September, the Northwestern Branch will host its 2nd Annual Golf Tournament. We are hoping that it will be even more of a success than the first tournament. We may spice things up with a few additional activities such as prizes for the longest drive,

longest putt, and closest to the pin. Of course, the activity will be topped off with refreshments and socializing at the club house afterwards.

2010 BRANCH EXECUTIVE

Position	Name/Designation
Chair	**Karine Savoie**, P.Eng.
Vice Chair	**Mariette Savoie**, P.Eng.
Secretary	**Richard Daigle**, MIT
Provincial Councillor	**Marc Laforge**, P.Eng.
Provincial Councillor	**Georges Roy**, P.Eng.
Councillor	**Eric Ouellette**, P.Eng.
Councillor	**Martin Benoit**, P.Eng.
Councillor	**Alain Pelletier**, P.Eng.
Councillor	**Jean-Louis Daigle**, P.Eng.

SHOUT-OUT

Congratulations to **Mariette Savoie**, P.Eng., on the birth of her twin babies.

GET MORE

For more information on upcoming Branch events... to add your name to our mailing list... or to submit ideas on how your Branch can better serve you, contact one of your Branch executive or:

EMAIL
Karine Savoie, P.Eng.
Chair
karine.savoie@gnb.ca

APEGNB AIGNB Northwestern BRANCH

SECTION DU NORD-OUEST

KARINE SAVOIE, ING., PRÉSIDENTE

RÉCAPITULATION

LES 18 ET 19 FÉVRIER 2010
Assemblée et banquet annuels de l'AIGNB

En février dernier, j'ai assisté à l'assemblée annuelle de l'AIGNB à Moncton. Je dois avouer qu'encore une fois, ce fut une activité très agréable. Les divertissements de la soirée de jeudi étaient amusants, la réunion s'est bien déroulée, la séance technique était intéressante et les plats et le vin servis au banquet du vendredi soir étaient succulents! Parallèlement aux affaires traitées à la réunion officielle, il est toujours agréable de croiser des personnes que l'on n'a peut-être pas vues depuis des années. Il est intéressant de découvrir ce qu'ont fait nos collègues ou d'anciens camarades de classe depuis qu'ils ont obtenu leur diplôme universitaire et amorcé leur carrière.

LE 10 MARS 2010
Atelier « Quelle incidence le changement climatique aura-t-il sur l'infrastructure du Nouveau-Brunswick »?

Cet atelier était axé sur les études pour évaluer les risques d'incidence du changement climatique sur notre infrastructure. Ce fut certes une journée éclairante. Le sujet a déclenché quelques conversations passionnantes. Quatre cas déjà étudiés ont été présentés, ce qui nous a permis de saisir jusqu'à quel point les risques et les incidences pourraient être très différents d'une partie à l'autre du pays. Il faut féliciter l'AIGNB et Ingénieurs Canada pour un tel atelier en temps si opportun!

LE 18 MARS 2010
Réunion du bureau de direction de la section du Nord-Ouest

Une réunion de section a eu lieu aux bureaux de Roy Consultants à Edmundston. Sept membres du conseil de section y ont assisté (se reporter à la photo). Nous avons parlé de l'assemblée annuelle de l'AIGNB tenue en février. Nous avons discuté du fait que notre record du monde pour le plus grand iglou a récemment été battu par un groupe d'États-uniens du Wisconsin et comment nous

*Dans l'ordre habituel : **Jean-Louis Daigle**, ing.; **Georges Roy**, ing.; **Mireille Vautour**, ing.; **Mariette Savoie**, ing.; **Marc Laforge**, ing.; **Martin Benoit**, ing.; **Karine Savoie**, ing., **Alain Pelletier**, ing. (Absents : **Éric Ouellette**, ing. et **Richard Daigle**, membre stagiaire.*

espérons reprendre ce record l'an prochain. À l'ordre du jour, il y avait aussi les activités qui s'annoncent dans notre section. Nous avons décidé d'annuler notre visite à la cabane à sucre compte tenu du peu d'intérêt et de la probabilité que la saison des sucres finira tôt. Nous avons plutôt décidé de nous consacrer à faire de notre tournoi de golf annuel un vrai grand succès.

À VENIR

MAI 2010

Assemblée et dîner annuels de la section du Nord-Ouest

Cette année, nous prévoyons tenir notre assemblée et notre banquet annuels à la fin de mai 2010, probablement à Edmundston; la présentation proposée porterait sur les travaux en cours au barrage hydroélectrique d'Edmundston. Des précisions viendront bientôt.

ÉTÉ 2010

Grand ouverture de la tyrolienne Zip Zag

Éric Ouellette, ing., principal organisateur du concours de construction d'iglous de l'AIGNB, a lancé un autre projet de plein air qui se distingue. Après avoir travaillé à sa conception tout l'hiver, Éric ouvrira la première tyrolienne de la région du Nord-Ouest. Zip Zag transportera les amateurs de frissons sur une palpitante tyrolienne qui traverse la splendide gorge de Grand-Sault. Selon Éric, tout sera prêt à temps. Il prévoit que les passagers se « tyroleront » par-dessus la gorge dès le début de l'été. On peut consulter son nouveau site Web à l'adresse www.zipzag.ca pour en savoir plus. J'ai bien hâte de l'essayer!

FIN JUIN 2010 (PROPOSÉ)

Visite d'un parc éolien

Nous essayons d'organiser une visite du nouveau parc éolien entre Saint-Quentin et Bathurst, le long du Chemin des ressources. La section a parlé d'en faire une visite conjointe avec la section du Nord-Est. Des précisions sont à venir.

SEPTEMBRE 2010

2e Tournoi de golf annuel de la section du Nord-Ouest

En septembre prochain, la section du Nord-Ouest tiendra son 2e tournoi de golf annuel. Nous espérons qu'il obtiendra encore plus de succès que le premier tournoi. Nous essaierons d'y mettre du piquant en ajoutant quelques activités telles que des prix pour le plus long coup de départ, le coup roulé le plus long et le coup le plus près du trou. Évidemment, l'activité sera agrémentée de rafraîchissements et suivie d'une rencontre au chalet.

BUREAU DE DIRECTION 2010 DE LA SECTION

Poste	Nom et désignation
Présidente	**Karine Savoie**, ing.
Vice-présidente	**Mariette Savoie**, ing.
Secrétaire	**Richard Daigle**, ms
Conseiller provincial	**Marc Laforge**, ing.
Conseiller provincial	**Georges Roy**, ing.
Conseiller	**Éric Ouellette**, ing.
Conseiller	**Martin Benoit**, ing.
Conseiller	**Alain Pelletier**, ing.
Conseiller	**Jean-Louis Daigle**, ing.

SUR TOUS LES TOITS

Nos félicitations à **Mariette Savoie**, ing., à l'occasion de la naissance de ses jumeaux.

POUR EN SAVOIR PLUS

Pour d'autre information au sujet des prochaines activités de la section, pour faire ajouter votre nom à notre liste d'envoi ou pour donner des idées sur des manières dont la section peut mieux vous servir, communiquez avec un des membres du bureau de direction de votre section ou envoyez un courriel à :

Karine Savoie, ing.
Présidente
karine.savoie@gnb.ca

APEGNB AIGNB
Section du Nord-Ouest

EPIC Educational Program Innovations Center

Upcoming Courses	Location	2010				
Civil		**April**	**May**	**June**	**Oct**	**Nov**
Building Condition Assessment	Halifax	26-28				
Residential Building Envelope and Structure Assessment and Repair	Halifax		10-12			
Design of Urban Drainage and Stormwater Management Facilities Workshop	Halifax			21-22		
Evaluation of Bridge Condition for Safety and Bridge Rehabilitation	Halifax			23-24		
Using Standard Form Contracts for Construction and Design Services	Halifax				4-5	
Design of Equipment Foundations	Halifax				20-22	
Seismic Analysis and Design of Steel and Reinforced Concrete Buildings	Halifax					16-18
Electrical		**April**	**May**	**June**	**Oct**	**Nov**
Wind Farm Development, Design, Operation and Maintenance	Halifax	26-28				
Electrical Equipment: Selection, Applications, Operation, Diagnostic Testing, Troubleshooting	Halifax			21-25		
Environmental		**April**	**May**	**June**	**Oct**	**Nov**
Contaminated Soil and Groundwater Chemistry, Assessment and Remediation	Halifax			21-23		
Achieving Water Quality Standards by Effective Stormwater Management	Halifax			23-24		
Mechanical		**April**	**May**	**June**	**Oct**	**Nov**
Effective Equipment and Facilities Maintenance - Striving to Achieve the Required Reliability at Low Cost	Moncton					1-2
In-Plant Cranes, Hoists and Lifting Devices - Types, Components, Inspection, Operation and Safety	Moncton					3-4

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MONCTON BRANCH

DAVID KOZAK, P.ENG., CHAIR

ROUNDUP

JANUARY 20, 2010

Branch Members' Reception (Mexicali Rosa's)

Approximately 25 people braved a January blizzard to take part in the second annual members reception. Everyone enjoyed some Mexican food, great conversation and some beverages to warm the insides.

FEBRUARY 11, 2010

Molson Canadian Brewery Tour

For the second year in a row, the Branch was lucky enough to enjoy a technical tour of the Molson brewery to witness the miracle of beer-making. The tour was thoroughly enjoyed by all and ended with a wonderful visit to the 'Eric H. Molson Room'. Thanks again to Molson for supporting our Branch with this tour.

FEBRUARY 28, 2010

Family Fun Day with the Wildcats

For a change this year, the Branch decided to sponsor a family afternoon of hockey watching the Moncton Wildcats play the Halifax Mooseheads in Quebec Major Junior Hockey. Individuals purchased tickets and the Branch contributed food and beverage vouchers. However, the day was cut somewhat short as most people left the game early to watch Canada clinch Olympic Gold in Men's Hockey. Go, Canada, Go!!

MARCH 16, 2010

Dieppe Aquatic Centre Technical Tour

As our second technical tour of the year, the $9.9 million recently constructed Dieppe Aquatic Centre played host to a number of

Dieppe Aquatic Centre

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Branch members wanting to find out more about sustainable design. Some of APEGNB's member companies were involved in the design and construction of the facility including the Terrain Group, Hoadley Engineering, Valron Engineering and MCW Maricor.

MARCH 26 – 28, 2010

Annual Atlantic Engineering Hockey Tournament

This year, the Atlantic Engineering Hockey Tournament was held in Pownal, PEI. This was our seventh year participating in the tournament. Results were not available at press time so check this space in the summer *Engenuity* to find out how our fearless Moncton Branch team did.

2009 - 2010 BRANCH EXECUTIVE

Position	Name/Designation
Chair	**David Kozak**, P.Eng.
Vice-Chair	**Réjean Hall**, P.Eng.
Past Chair	**Maryse Doucet**, P.Eng.
Secretary	**Geneviève McIntyre**
Treasurer	**Pierre Plourde**, P.Eng.
Professional Development	**Tony Desjardins**, P.Eng.
Social	**Véronique Haché**, P.Eng.
Social	**Philippe Losier**, P.Eng.
Communications	**Tina Levesque**, MIT
Provincial Councillor	**Maryse Doucet**, P.Eng.
Provincial Councillor	**Mathieu Breau**, MIT
Branch Councillor	**Serge Doucet**, P.Eng.
Branch Councillor	**Mark Bellefleur**, P.Eng.
UdeM Representative	**Marise Gallant**, P.Eng.

UPCOMING

APRIL 2010

Technical Tour of the new Université de Moncton Stadium

As soon as the snow melted, we invited our members to attend a technical tour of the new facility before the athletes hit the field for the 2010 IAAF World Junior Track and Field Championships.

MAY 2010

Moncton Branch AGM

The annual Moncton Branch AGM will be held in May. Details on date, time and location to follow.

SHOUT-OUT

A special thank you is in order for **Véronique Haché**, P.Eng., **Tina Levesque**, MIT and **Tony Desjardins**, P.Eng. for arranging all of our recent events. Without their hard work and dedication, these events would not have been the successes that they were.

Congratulations also to Canada's Olympians as they owned the podium and strengthened the pride of Canadians across the country during Vancouver's XXI Winter Olympics.

GET MORE

For more information on upcoming Branch events... to add your name to our mailing list... or to submit ideas on how your Branch can better serve you, contact a member of the Branch executive or email:

Tina Levesque, MIT
Tina.Levesque@canadapost.postescanada.ca

BRANCH URL:
www.moncton.apegnb.ca

SECTION DE Moncton BRANCH
APEGNB AIGNB

SECTION DE MONCTON

DAVID KOZAK, ING., PRÉSIDENT

RÉCAPITULATION

LE 20 JANVIER 2010

Réception des membres de la section (Mexicali Rosa's)

Environ 25 personnes ont défié la poudrerie de janvier pour assister à la deuxième réception annuelle des membres. Tous ont apprécié la nourriture mexicaine, la bonne conversation et quelques boissons pour se réchauffer le dedans.

LE 11 FÉVRIER 2010

Visite guidée de la brasserie Molson Canadian

Pour la deuxième année d'affilée, la section a eu la chance de profiter d'une visite technique guidée de la brasserie Molson pour observer la magie de la fabrication de la bière. Tout le monde a aimé la visite guidée qui s'est terminée par une fascinante visite de la salle « Eric H. Molson ». Encore une fois, merci à Molson d'avoir appuyer notre section en nous offrant cette visite guidée.

LE 28 FÉVRIER 2010

Jour de plaisir en famille avec les WildCats

Pour faire changement cette année, la section a décidé de parrainer un après-midi de hockey en famille pour voir les WildCats de Moncton affronter les Mooseheads de Halifax dans une partie de la Ligue de hockey junior majeur du Québec. Chaque personne a acheté son billet et la section a remis des bons à échanger contre de la nourriture et des boissons. La sortie a cependant pris fin un peu rapidement, car la plupart des participants ont quitté la partie tôt pour voir le Canada arracher la médaille d'or olympique au hockey masculin. Bravo Canada!

LE 16 MARS 2010

Visite technique guidée du Centre aquatique de Dieppe

Objet de notre deuxième visite technique guidée de l'année, le centre aquatique de 9,9 millions de dollars récemment érigé à Dieppe a accueilli un certain nombre de membres de la section voulant se renseigner au sujet de l'architecture durable. Les entreprises de certains des membres de l'AIGNB ont participé à la conception et à la construction de ces installations, notamment le Terrain Group, Hoadley Engineering, Ingénierie Valron et MCW Maricor.

DU 26 AU 28 MARS 2010

Tournoi de hockey annuel des ingénieurs de l'Atlantique

Cette année, le tournoi annuel de hockey des ingénieurs de l'Atlantique s'est déroulé à Pownal (Î.-P.-É.). Nous en étions à notre septième participation annuelle à ce tournoi. Nous n'avions pas encore les résultats quand nous avons rédigé cet article; revenez donc à cette chronique dans le numéro d'été d'Engenuity pour savoir comment l'intrépide équipe de la section de Moncton s'est débrouillée.

À VENIR

AVRIL 2010

Visite technique guidée du nouveau stade de l'Université de Moncton

Dès que la neige sera fondue, nous invitons nos membres à participer à une visite technique guidée des nouvelles installations avant que les athlètes n'envahissent les lieux pour les Championnats du monde juniors de 2010 de l'Association internationale des fédérations d'athlétisme.

MAI 2010

AGA de la section de Moncton

L'assemblée générale annuelle de la section de Moncton aura lieu en mai. La date, l'heure et le lieu seront annoncés plus tard.

SUR TOUS LES TOITS

Un remerciement spécial est tout indiqué pour **Véronique Haché**, ing., **Tina Lévesque**, membre stagiaire, et **Tony Desjardins**, ing., qui ont organisé toutes nos activités récentes. Sans leur travail ardu et leur dévouement, ces activités n'auraient pas connu le succès qu'elles ont obtenu.

Nos félicitations aussi aux Olympiens du Canada qui ont pris possession des podiums et renforcé la fierté des Canadiennes et des Canadiens partout au pays lors des XXIe Jeux olympiques d'hiver de Vancouver.

BUREAU DE DIRECTION 2009-2010 DE LA SECTION

Poste	Nom et désignation
Président	**David Kozak**, ing.
Vice-président	**Réjean Hall**, ing.
Présidente sortante	Maryse Doucet, ing.
Secrétaire	**Geneviève McIntyre**
Trésorier	**Pierre Plourde**, ing.
Perfectionnement professionnel	**Tony Desjardins**, ing.
Activités sociales	**Véronique Haché**, ing.
Activités sociales	**Philippe Losier**, ing.
Communications	**Tina Lévesque**, ms
Conseillère provinciale	**Maryse Doucet**, ing.
Conseiller provincial	**Mathieu Breau**, ms
Conseiller de la section	**Serge Doucet**, ing.
Conseiller de la section	**Mark Bellefleur**, ing.
Représentante de l'U de M	Marise Gallant, ing.

POUR EN SAVOIR PLUS

Pour d'autre information au sujet des prochaines activités de la section, pour faire ajouter votre nom à notre liste d'envoi ou pour donner des idées sur des manières dont la section peut mieux vous servir, communiquez avec un des membres du comité de direction de votre section ou envoyez un courriel à :

Tina Levesque, membre stagiaire
Tina.Levesque@canadapost.postescanada.ca

URL DE LA SECTION :
www.moncton.aignb.ca

SECTION DE Moncton BRANCH APEGNB AIGNB

SAINT JOHN BRANCH

ROBERT ROWE, P.ENG., CHAIR

ROUNDUP

JANUARY 29, 2010

Saint John Sea Dogs Hockey Game

On game night, things kicked off with a reception of appetizers including a Tim Horton's "warm-up" prior to the puck drop. We had a great turnout with 80 of us cheering on the Sea Dogs as they took on the fierce Foreurs de Val-d'Or. The Sea Dogs won with a final score of 6 to 3.

Saint John Sea Dogs scoring on the Val d'Or Foreurs

FEBRUARY 13, 2010

Annual Curling Event

The Branch held its annual curling event at the Thistle St. Andrew's curling club in Saint John. This year, we had a "Bad Sweater" theme and many members dug out their worst/funniest looking woolies. **J.D. Carroll**, a student at UNB Saint John, won the prize for a red sweater featuring a cow that wrapped around on one side. Everyone had a great time enjoying good food and many laughs, especially at the interesting selection of sweaters that were on display. Who would have thought one could have so much fun sweeping?

ONGOING

District 8 Young Engineers Enrichment Program

Our Branch members took part in the Young Engineers Program again this year. The program provides students in grades 6 to 8, who have an aptitude for science and math, an opportunity to meet and learn from local engineers and geoscientists. I would like to thank the following Branch members for volunteering their time to take part in this program:

Stephanie Guay, MIT, **Jon Lenton**, P.Eng., **Blair Boudreau**, P.Eng., **Dean Price**, P.Eng., **Susan Ryan**, P.Eng.

Members of the Young Engineers Program testing the strength of various materials

APRIL 30, 2010

Bowling Event

Sporty shoes were shined up as we hit the local bowling lanes. It was another great opportunity to meet up with friends for some food, laughs, and a chance to play a perfect game.

UPCOMING

JULY 24, 2010
Annual Golf Tournament

Spring has arrived and it's time for golfers everywhere to get out to the range to practice for our annual tournament. This year's event is booked for Saturday, July 24 at the Rockwood Golf Club. We hope to see you there!

TBA
Habitat for Humanity Volunteer Day

We will be coordinating a day where our members can volunteer their time and skills to assist Habitat for Humanity to build a home for a deserving family. Further details will be forthcoming.

2010 BRANCH EXECUTIVE

Position	Name/Designation
Chair	Robert Rowe, P.Eng.
Past Chair	Michelle Paul-Elias, P.Eng.
Vice Chair	Marlo Rose, P.Eng.
Secretary	Kim Kimball, MIT
Communication Officer	Ken Fenwick, P.Eng.
Treasurer/APEGNB Provincial Councillor	Holly Young, P.Eng.
APEGNB Provincial Councillor	Paul Holah, P.Eng.
UNBSJ Student Representative	Nathalie Jones
UNBSJ Student Representative	Brittaney Blanchard
UNBSJ Faculty Representative	Dr. Ken Sollows, P.Eng.
Councillor	Jeff Underhill, MIT
Councillor	Lisa Frazee, P.Eng.
Councillor	Michele Blanchard, P.Eng
Councillor	Stephanie Guay, MIT
Councillor	Paul Cole, P.Eng

GET MORE

For more information on upcoming Branch events... to add your name to our mailing list... or to submit ideas on how your Branch can better serve you, contact a member of the Branch executive or email:

Ken Fenwick, P,Eng.
Communication Officer
kenfen@nbnet.nb.ca

BRANCH URL:
www.saintjohn.apegnb.ca

OTHER:
Facebook page

SECTION DE Saint John BRANCH APEGNB AIGNB

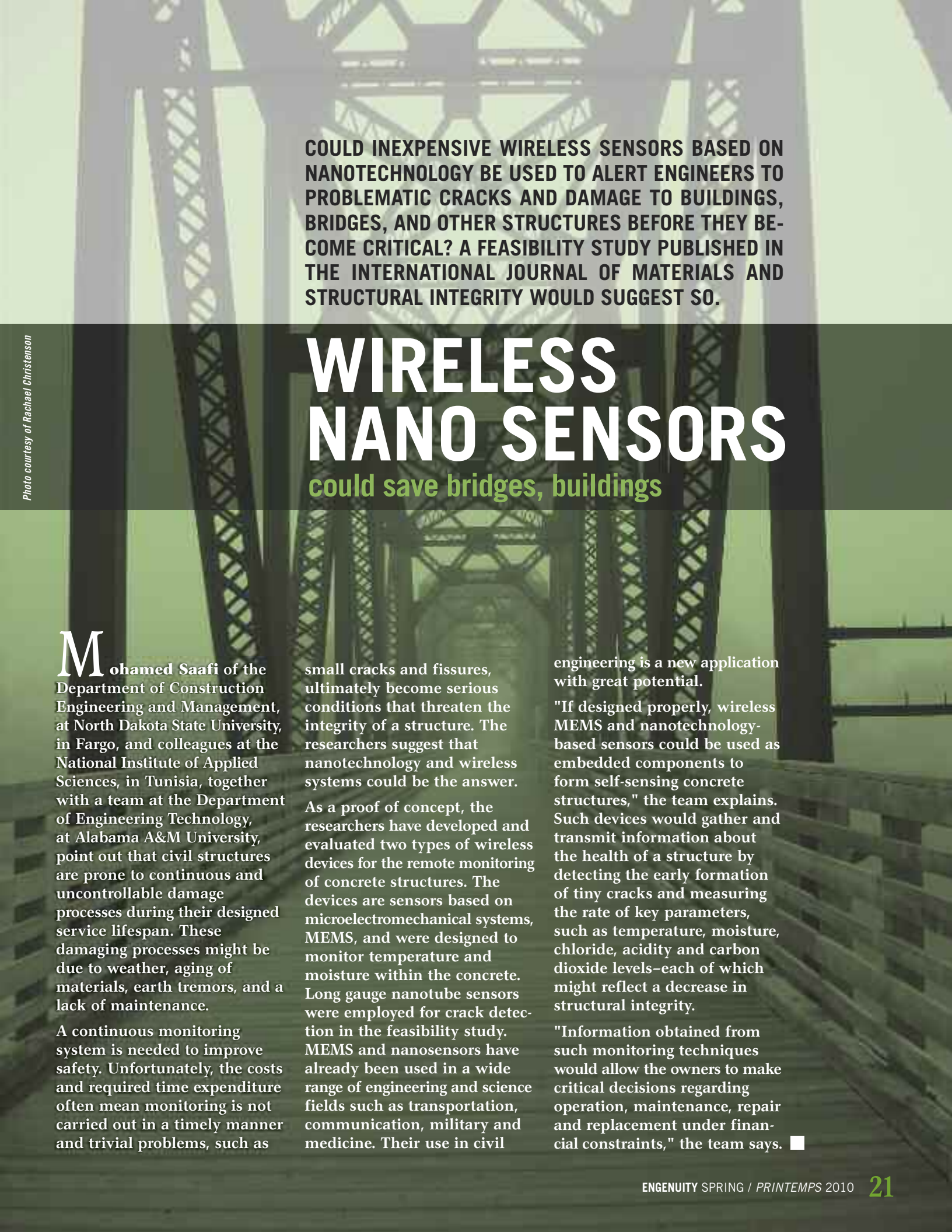

Photo courtesy of Rachael Christenson

COULD INEXPENSIVE WIRELESS SENSORS BASED ON NANOTECHNOLOGY BE USED TO ALERT ENGINEERS TO PROBLEMATIC CRACKS AND DAMAGE TO BUILDINGS, BRIDGES, AND OTHER STRUCTURES BEFORE THEY BECOME CRITICAL? A FEASIBILITY STUDY PUBLISHED IN THE INTERNATIONAL JOURNAL OF MATERIALS AND STRUCTURAL INTEGRITY WOULD SUGGEST SO.

WIRELESS NANO SENSORS

could save bridges, buildings

Mohamed Saafi of the Department of Construction Engineering and Management, at North Dakota State University, in Fargo, and colleagues at the National Institute of Applied Sciences, in Tunisia, together with a team at the Department of Engineering Technology, at Alabama A&M University, point out that civil structures are prone to continuous and uncontrollable damage processes during their designed service lifespan. These damaging processes might be due to weather, aging of materials, earth tremors, and a lack of maintenance.

A continuous monitoring system is needed to improve safety. Unfortunately, the costs and required time expenditure often mean monitoring is not carried out in a timely manner and trivial problems, such as small cracks and fissures, ultimately become serious conditions that threaten the integrity of a structure. The researchers suggest that nanotechnology and wireless systems could be the answer.

As a proof of concept, the researchers have developed and evaluated two types of wireless devices for the remote monitoring of concrete structures. The devices are sensors based on microelectromechanical systems, MEMS, and were designed to monitor temperature and moisture within the concrete. Long gauge nanotube sensors were employed for crack detection in the feasibility study. MEMS and nanosensors have already been used in a wide range of engineering and science fields such as transportation, communication, military and medicine. Their use in civil engineering is a new application with great potential.

"If designed properly, wireless MEMS and nanotechnology-based sensors could be used as embedded components to form self-sensing concrete structures," the team explains. Such devices would gather and transmit information about the health of a structure by detecting the early formation of tiny cracks and measuring the rate of key parameters, such as temperature, moisture, chloride, acidity and carbon dioxide levels–each of which might reflect a decrease in structural integrity.

"Information obtained from such monitoring techniques would allow the owners to make critical decisions regarding operation, maintenance, repair and replacement under financial constraints," the team says. ■

TOM SISK, P.ENG., DIRECTOR OF PROFESSIONAL AFFAIRS

ASK THE DPA

Question

IF SOMEONE IS REGISTERED AS A P.ENG. IN ONTARIO AND THEY'RE SPEAKING TO THE MEDIA IN NEW BRUNSWICK, CAN THEY CALL THEMSELVES A P.ENG.? (ARE THERE ANY FEDERAL INTERNAL TRADE/LABOUR MOBILITY ISSUES TO CONSIDER?)

ALSO, CAN A MEMBER WHO IS REGISTERED ELSEWHERE, BUT NOT WITH APEGNB, USE A DESIGNATION SUCH AS "JANE SMITH, P.ENG. (NS)" ?

Answer

These are topical questions which we can look at in reverse order.

While at first glance, it might appear reasonable to add a provincial clarification to a professional designation, it does pose some problems for both the user of such a designation and for the person using the engineering services.

Presumably, the person trying to use such a designation is attempting to use the status of the P.Eng. for career or other professional reasons. That brings them under the jurisdiction of one of the engineering Acts in Canada. Each one essentially says that a person must be properly registered in the jurisdiction where they practice. With the easy mobility of registered members in one jurisdiction to move (temporarily or permanently) to another, there is no excuse for not being legally registered. Also, most jurisdictions make no reference in their Acts to the use of a provincial designator.

If the professional is providing engineering services, giving engineering opinion or giving direction based on engineering expertise or training, that person is practicing engineering and therefore must be properly registered. If the person is merely providing background information about themselves, simply stating that they are "...a professional engineer in Nova Scotia" will clearly denote their standing without implying they are currently registered locally.

One particular circumstance can cause some problems for engineers who are called as expert witnesses in courts or tribunals. It is usual for the courts to declare experts as required within the court itself and in technical cases, these are often engineers. It would be unlikely for an engineering regulatory body to challenge the authority of a court to make such a declaration. However, the engineer often also does field work or inspections for the case and perhaps writes a report. His work, clearly done outside the court, is engineering and requires proper registration.

Engineers have enjoyed mobility across Canada for many years and the process is becoming more streamlined as the years

If you have a regulatory, enforcement or ethical question you'd like answered, e-mail APEGNB's Director of Professional Affairs.

sisk@apegnb.com

progress. Once properly registered in one Canadian jurisdiction, the P.Eng. can apply and receive a license or membership in another jurisdiction in very short order. Note that the mobility is not automatic, and it is not without fee. That point is sometimes missed in talking about mobility. Also, a few jurisdictions still require things like a minimum membership period in one jurisdiction before allowing a 'transferring in'.

As for the original question, it is always important to consider the context of the use of the P.Eng. Its purpose under the Act is to designate that the person is a professional, has met certain standards of education and experience and is bound by our Code of Ethics. It also means that they are in good standing with the regulatory body having jurisdiction. To use it to imply some higher degree of authority while not properly registered constitutes a breach of the Act and/or by-laws.

To relate it to the example given, one must ask why the media is interested. Was the professional an observer to some event the reporter feels the professional's expertise might have some increased insight into? Is the person trying to add weight to his statement by commenting on some event? Does the use of the P.Eng. have anything to do with the interview?

The professional is bound to observe the Code of Ethics which holds us to comment publicly only on those subjects whose details with which we are thoroughly acquainted. Similarly, we are to comment only when our training and experience makes us qualified to do so.

So, it would be proper in this case to indicate that they were members of PEO but to refrain from using P.Eng. unless properly registered in the local jurisdiction. ■

SUBMITTED BY **TREVOR R. HANSON**, P.ENG., PHD CANDIDATE, UNIVERSITY OF NEW BRUNSWICK TRANSPORTATION GROUP

How New Brunswick can benefit from

INTELLIGENT TRANSPORTATION SYSTEMS:

Lessons from Finland and Alaska

Whittier, Alaska – Dual use road vehicle/train tunnel controlled using ITS

"Intelligent Transportation Systems" or "ITS", refer to any number of technologies that can make the transportation system smarter, safer and more efficient. Over the past several years, New Brunswick has cemented its reputation as a province that believes in ITS.

In addition to several deployments, including high-speed weigh-in-motion, and Road Weather Information Systems (RWIS), the New Brunswick Department of Transportation (NBDOT) released an ITS Strategic Plan *(http://www.gnb.ca/0113/ITS/BeingALeaderWithITS-Oct15-08-E.pdf)*.

This offers an excellent vision of what could be achieved in New Brunswick using intelligent transportation technologies. The UNB Transportation Group has worked with the NBDOT, Transport Canada and the private sector in testing technologies or processes in the Canadian environment under the National Rural ITS Research Program. It is hoped that the program will be renewed and expanded to ensure a long-term, sustainable program, as outlined in the ITS Strategic Plan.

While the ITS Strategic Plan provides an excellent vision, it is equally important to visualize what New Brunswick could achieve by exploring the efforts of those jurisdictions considered world leaders in rural and low-density ITS. Through transportation research funded by Transport Canada's ITS Policy Branch, UNB identified Alaska and Finland as two leaders in this field and conducted an intelligence gathering exercise.

> **"The time is now to move forward on the development of an ITS research centre and test-bed in New Brunswick."** **Trevor Hanson**, P.Eng.

ALASKA'S WHITTIER TUNNEL

Alaska provides a good example of where ITS for rural and low-density areas in Canada could be in the near future with a concerted effort. Alaska has invested substantially in its weather and traveller information system (including 511), and has innovative deployments, such as the one track/one lane Whittier Tunnel which uses ITS to allow vehicles and trains to use the tunnel at different times during

the day. This is an excellent example of maximizing the use of infrastructure using technology involving two separate transportation modes.

Technology is already used on many bridges in North America to maximize capacity through contraflow lanes, though it has yet to achieve any kind of widespread adoption in smaller North American jurisdictions. A test-bed could be an excellent way to demonstrate new technology and educate potential users.

Looking to the future, Finland (with similar climate and population density to New Brunswick) is an excellent example of an integrated rural, low-density and urban ITS environment and could be a model for Canada's rural, low-density and smaller jurisdictions.

FINLAND'S TRAFFIC MANAGEMENT CENTRES

Finland employs several traffic management centres located throughout the country (some in areas as small as 50,000 people) and each one has a specialty, such as border crossing monitoring. These centres also coordinate emergency vehicle responses.

Additionally, there are many kilometres of weather dependent variable speed limit signs that respond automatically to conditions as well as being centrally controlled. There is also a sophisticated national road weather monitoring and information service combined with winter road maintenance service. VTT, the technical research centre of Finland, is leading the charge on numerous ITS innovations, including rural rail grade crossing safety.

QUANTIFYING THE VALUE OF ITS

Perhaps the most innovative aspect of Finnish ITS is how they incorporate ideology into their decision-making process. While benefit-cost analysis is a common technique for determining the worth of a project, Finland has quantified the benefits of ITS that traditionally have been difficult to quantify (traveller information).

Under their analysis, the technologies they have deployed provide an appropriate return on investment. Transportation agencies in Canada may struggle with how to quantify the benefits of such initiatives as providing up-to-date traveller information to the public, especially when other countermeasures (such as dividing a highway) have such well-documented and evident benefits. This is definitely an area for research, and could be a key component of a test-bed and research centre.

NORTH AMERICA NEEDS A TEST-BED

There is considerable opportunity to make ITS an integral part of the decision-making process and a realistic solution in addressing perennial transportation issues. The challenge is that many of these initiatives have yet to find their way into smaller and low-density markets in North America because there is currently no test-bed that can experiment and modify the technology to suit our needs.

The time is now to move forward on the development of a research centre and test-bed that could put New Brunswick (and Canada) on track to become world leaders in ITS for smaller jurisdictions. UNB has worked with provincial, federal and private sector partners on rural ITS initiatives in the past and it is hoped that dedicated, long-term funding can become available to get a new research, test-bed and pre-deployment effort off the ground.

***Trevor Hanson**, P.Eng, at the Helsinki Traffic Management Centre*

BY **RUSHWORTH M. KIDDER**

BULLDOZING THE MORAL RUBBLE

Reprinted from *Ethics Newsline* (01/19/2010)—published by the Institute for Global Ethics

In a fine think-piece on the underlying causes of Haiti's tragedy, New York Times columnist **David Brooks** begins with a simple comparison. In 1989, a magnitude 7.0 earthquake struck the Bay Area of Northern California, and 63 people died. (In January of this year), a magnitude 7.0 quake shattered Haiti, and as many as 200,000 people died.

His point, paraphrased, is that Haiti's tragedy was not seismic but economic: It was abject poverty, not plate tectonics, that caused so many deaths. Nations that can afford thoughtful zoning, good engineering, and quality construction can build to last and withstand such shocks. Nations forced by demographics and penury into haphazard sprawl must build for the moment and can't survive natural disasters.

All of that is true, as far as it goes. But behind poverty lies a deeper cause: corruption. If we're to compare Haiti and the Bay Area, let's add one more set of facts. On the latest Corruption Perceptions Index published by Transparency International, the United States stands among the world's least corrupt nations — 19th of the 180 countries ranked. That's not as high as it should be, but it's leagues apart from Haiti, which stands at 168, down there with Afghanistan and Somalia.

How is that relevant? Take the construction trades. In a culture where bribery, fraud, and extortion are endemic, it would be bizarre to imagine that you could build a five-star hotel or a slant-sided hovel without paying off somebody. Some of those payments help you get permits to build in unsafe areas. Some ensure that building inspectors don't look too closely at how much cheap sand you're mixing with expensive cement to dilute its strength or how much steel you're selling off under the table rather than using to reinforce your concrete. And some bribes go for protection, to keep thugs — or public officials — from attacking your building site, your home, or your business.

Corruption, say those who study it, is one of the world's most regressive taxes, slamming the poor far harder than the rich: The poor pay more bribes, and the percentage of their income going to bribery is higher. Whether the corrupt cop stops the driver of a Lexus or a motor scooter, the sum he extorts will probably be tolerable for the former — and potentially disastrous for the latter.

> **"It may be that you simply can't defeat poverty without erasing corruption."**

If Haiti's fatal poverty is a function of corruption, the question is what to do about it. Anti-poverty efforts alone, as Brooks points out, have been disappointingly ineffective. The reason, I suspect, is that they have too often accepted corruption as part of the embedded cultural landscape rather than as an imposed and correctible offense. It may be that you simply can't defeat poverty without erasing corruption.

But how can you erase corruption in a place like Haiti? An encouraging hint comes from Hong Kong, which 35 years ago was arguably as bad as Haiti. Riddled with corruption, it was so rancid that the police superintendent himself kept meticulous hand-penciled notebooks detailing every street-corner business that had paid him off so that his officers would leave it alone. The notebooks are now on display at the new headquarters of the Independent Commission Against Corruption (ICAC), founded in 1974 to clean up Hong Kong.

The turn-around wasn't pretty, involving public protests, police

strikes, and the extradition of the superintendent, who had slipped away to England. Nor was it inexpensive: The ICAC, whose 900 investigators have the power to arrest, detain, interrogate, and bring to trial those suspected of public- or private-sector corruption, currently absorbs $800 million a year, or 0.3 percent of Hong Kong's budget.

But look at the results. Hong Kong, this year, sits in 12th place on Transparency International's scale, well above the United States, Great Britain, and much of Europe. It's a thriving financial centre, where global investors trust that their funds will be safe. What's more, as Hong Kongers will happily tell you, it essentially has no poverty.

I'm not saying that Haiti, the poorest country in the Western Hemisphere, will become the next Hong Kong. There's a world of difference between the entrepreneurial culture of southern China and the slave-trade colonialism of the Caribbean. But there's also a powerful similarity that binds people everywhere: a set of shared moral values that includes honesty, responsibility, respect, fairness, and compassion. Ask people which values most matter to them, we've found, and even in the deepest cultures of corruption, this list emerges — not as a description of their *circumstances* but as a testament to their *aspirations*. Do they experience corruption? Yes. Do they like it? No. Do they want something better? Absolutely.

Could an anti-corruption agency work in Haiti? Maybe not in the past. But if there's any blessing lurking in (January's) awful tragedy, it's that the past has ended. Old habits die hard, of course. In the aftermath of Hurricane Katrina in New Orleans, graft flourished, and it may do so again in Haiti as millions of dollars pour in. But we also may see a new determination to link corruption to poverty — and to fight both. If so, the global community may find that 0.3 percent of the budget is a modest price for cleaning up, permanently, the mental and moral rubble from this disaster.

Photos (courtesy of the UN Development Programme) **of downtown Port-au-Prince, Haiti taken January 13, 2010**

HEAD TO THE WEB!

SCIENTISTS AT THE UNIVERSITY OF CALIFORNIA HAVE PROVEN THAT WEB SURFING IS GOOD FOR THE BRAIN!

According to the 2008 study, computer-savvy middle-aged and older adults who surf the Internet trigger key centres in their brains that control decision-making and complex reasoning. The findings demonstrate that Web search activity may help stimulate and possibly improve brain function.

The tiniest measurable unit of brain activity registered by the functional magnetic resonance imaging scans (fMRI) is called a **VOXEL**. Scientists discovered that during Internet searching, those with prior experience sparked 21,782 voxels, compared with only 8,646 voxels for those with less experience. So **TO INCREASE YOUR VOXEL COUNT**, we suggest surfing the following sites:

Check out Volkswagen's super fuel-efficient hybrid, the bullet-shaped L1. It weighs less than 900 pounds, gets 170 miles to the gallon and may be in dealer showrooms by 2012.

www.wired.com/autopia/2009/09/volkswagen-l1-concept/

Meet four young women who host prime time's new technology-focused series on Men TV. The tech-savvy hosts, who are engineers or technology specialists, educate viewers on the latest gadgetry and innovations to hit the marketplace. The show debuted on April 15.

www.gadgetgirlztv.com

Everything you ever wanted to know about Iceland's Eyjafjallajökull eruption including NASA photos, news articles and a comprehensive list of all the things the volcano interfered with.

http://volcanism.wordpress.com/category/volcanoes/eyjafjoll-volcanoes/

SUBMITTED BY **CARLA CRAWFORD**, P.ENG.

Miramichi Timber Frames

TIME-HONOURED TRADITION MEETS MODERN ERA TECHNOLOGY

Carla Crawford, P.Eng.

After graduating from the University of New Brunswick's civil engineering program in 1990, **Carla Crawford** obtained her P.Eng. designation working for various companies mainly in the area of labour and materials estimating and project management for contractors, steel fabricators and road builders. The notion of entrepreneurship was never considered until the spark of interest in an age-old craft called timber framing. Knowing construction was her preferred area of expertise, Carla began to put her time toward researching the practice of building timber frame structures.

THE BEST LAID PLANS...

Initially, Carla focused on the construction of residential projects but was soon surprised to find that there was a demand for timber framing in other areas. As a result, the company has developed a well-balanced portfolio of residential, commercial and institutional projects.

WELL, THEY DIVERSIFIED...

In addition to manufacturing and installing exposed timber framed structures using eastern white pine timber sawn in house, oak pegs and traditional mortise and tenon joinery, the company began moving into other products and services. Miramichi Timber Frames now manufactures insulated panels, solid wood moulding, wooden export containers, and cedar furniture. It is also CCMC certified to install spray polyurethane foam insulation.

AND ACCENTUATED THE POSITIVE...

Often, architects, contractors and owners seek solid timber accents in the form of posts, beams, trusses, stairways and mantels for use in conventionally built structures. These can serve as structural components or aesthetic accents such as the addition of solid wood braces under the eaves of a structure.

MANY HATS...

Business ownership has proved to be a good career choice for Carla. Being involved in turning a concept into a completed project is very satisfying. Her daily tasks range from project management to sales and marketing to business administration. Troy manages all shop and field construction, ensuring the client's expectations are fully satisfied.

Her spouse and business partner, **Troy Donahue**, who was working as a technician with a major civil and mechanical contractor in New Brunswick, was also seeking a new challenge. Together, they embarked on a variety of research projects which led to the start-up of a new manufacturing company, Miramichi Timber Frames Inc.

WORKING THE NET...

Engineering and shop drawings are subcontracted to **Mark Gillis**, P.Eng., of Gillis & Company Timber Frames located in Halifax. Mark specializes in timber frame design and construction and is also a member of APEGNB and Engineers Nova Scotia. Mark provides all engineering services and his extensive experience in the industry assists in guiding clients in layout and spatial decisions as 3D drawings are provided for the client. All construction drawings are provided for each project as required by local municipalities.

Carla met Mark right after starting the company when he answered a technical question she posted on the Timber Framer's Guild site. Over the past seven years, Carla and Mark have collaborated on many projects with Mark also subcontracting timber frame projects to Miramichi Timber Frames. Between the two companies, they have projects in Atlantic Canada, Ontario and New England.

BEAM COUNTING...

Financial tracking and forecasting is also Carla's responsibility. She recently had the opportunity to participate in a project that provided her with customized financial forecasting software that is linked to the computerized accounting software she uses. This provides a three-year forecast to be generated automatically based on current year revenue and expense trends. By utilizing established budgets, this will bring attention to values that are outside of the projected figures to allow a quick response to the exact area of concern.

RESOURCEFUL HUMANS...

Her employees are encouraged to come up with safe and cost-effective shop and field solutions when encountering new challenges. As all timber frames are preassembled in the shop before site delivery, it was found that using a steel beam baseline attached to the wall at the appropriate level was a significant improvement on the company's earlier practice of laying out on sawhorses or on the floor. Adjustable supports with rollers to enable various working heights were also developed.

ON THE DRAWING BOARD...

Upcoming plans for Miramichi Timber Frames include:

- Introducing a special flooring made from ends of timber and a proprietary cork infill
- Working on a unique multi-unit residential project that honours traditional native values
- Completing a design build project for small, energy efficient timber frame spec houses

RESPONSIBLY YOURS...

As a graduate of UNB's engineering program, Carla has combined her formal training with opportunities as they presented themselves to embrace the traditional skill of timber framing. Her company uses energy-efficient methods and materials to create environmentally sensible structures. From using reclaimed timber and boards... to using sawmill waste for heating and bedding for farm animals... to turning timber off-cuts into beautiful moulding and minimizing field construction waste—being environmentally responsible also makes economic sense to Carla and the staff of Miramichi Timber Frames.

If you'd like to know more about timber framing or Carla Crawford's company, *visit*

www.MiramichiTimberFrames.com

READERS WRITE...

SEE THE ULRICH FLYER IN ACTION!

The article about the maple tree seed-inspired hovering flyer (*Winter 2010 Engenuity*, page 26) had me very intrigued and I told a Toronto-based friend of mine about it. He's very involved with model aircraft and builds and flies various designs along with others in a club there. Before sending off a message to him, I Googled "The Ulrich Flyer" and found a very good website at **www.sciencebuzz.org/buzz-tags/ulrich-flyer**. On that site (it's right up front as the screen opens), there's an audio-video presentation that shows the single-winged, rotating device flying around. It's quite something.

***Tony Short**, P.Eng.*

YOU'RE INVITED TO THE LOYAL COMPANY GALA BALL!

When I'm not engineering on behalf of Bell Aliant, I serve as the deputy commanding officer of the 3rd Field Artillery Regiment—the oldest artillery unit in Canada and the third oldest in the British Commonwealth.

***Major David L. Boudreau**, CD, P.Eng.*
Second-In-Command
3rd Field Artillery Regiment RCA
The Loyal Company

On behalf of my Regiment, I wanted to let *Engenuity* readers know that we are hosting a gala ball on **May 15th at 6 pm** to celebrate the City of Saint John's 225th anniversary. The formal ball will be held in the ballroom of the **Delta Brunswick Hotel on King Street in Uptown Saint John**.

Since 1793, when the Loyal Company of Artillery was formed in Saint John, our Regiment has proudly stood in defense of this port city. We manned local defenses during the War of 1812. We played an important role in maintaining the peace and safety of the city during the days after the Great Fire in 1877. And we saw active service during World War I.

Having celebrated a number of our own milestone anniversaries in grand style, including our bicentennial in 1993, we thought lending our heritage and pageantry to the City of Saint John's 225th anniversary celebrations might be an appropriate birthday gift.

In late January/early February 2010, Saint John Mayor **Ivan Court**, Honorary Colonel **John Irving** and Lieutenant Colonel **Shawn McPherson** decided to approach the City with our idea of volunteering to host a spring ball. Our offer was accepted and the 3rd Field Regiment has been working on the logistics ever since.

Accompanied by the pageantry associated with a military ball, the Regiment's commanding officer, Lt.-Col. John Irving, will welcome civilian ladies and gentlemen of the public, civic and public officials, prominent business people, serving and retired Canadian military personnel, and police and fire service personnel to celebrate the City of Saint John's 225th Anniversary.

Add your name to the guest list!

As host and producer of the ball, the Regiment anticipates that many groups within the city will take advantage of this event for the benefit of their membership and purchase tables or blocks of tables with the ball being sold out well in advance of the event.

It is my great pleasure, as the president of the Mess Committee for this gala celebration, to extend an invitation to the membership of Engineers and Geoscientist New Brunswick to attend the Loyal Company Ball 2010!

Details and Tickets

Dinner entertainment will be provided by the 3rd Field Artillery Regiment Band followed by dancing to the Black Cats Orchestra.

This is a formal military evening dress event. Dress is black tie. Tickets are $75 per person, $130 per couple or $600 per table of 10.

Registration is available online at ***www.loyalcompanyball2010.com*** or through the 3rd Field Artillery Regiment Orderly Room, Barrack Green Armoury, 60 Broadview Avenue, Saint John NB.

Questions regarding the ball may be directed to **Captain David Eadie** (David.Eadie@forces.gc.ca) or by calling (506) 637-7792.

We look forward to returning the Loyal Company Ball and its historic elegance to its place as a spring highlight to the Saint John social scene. We hope that you will be able to join us.

IF YOU HAVE OPINIONS, EVENTS OR INFORMATION YOU'D LIKE TO SHARE WITH *ENGENUITY* READERS, E-MAIL ***melissa@apegnb.com***. (LETTERS MAY BE EDITED FOR LENGTH AND CLARITY.)

BY **BRENT E. SMITH**, P. ENG.

ENGINEERS CANADA (CCPE) DIRECTOR'S REPORT

As the Engineers and Geoscientists New Brunswick (APEGNB) representative on the Board of Engineers Canada, I welcome the opportunity to keep members informed of some of the issues being discussed at the national level. This report covers some of the outcomes of the recent Engineers Canada Board of Directors meeting held in Ottawa on February 26, 2010 and includes the plenary session held in conjunction with the constituent associations, such as APEGNB, which are the provincial and territorial licensing bodies.

SYNERGY TASK FORCE

Following the February Board meeting, the Board of Directors, the constituent associations' (CAs) presidents and their chief executive officers, participated in a workshop to discuss a draft governance proposal for Engineers Canada and its guiding principles, which include:

- providing full and fair representation by the constituent associations;
- ensuring the commitment and engagement of the constituent associations;
- providing role clarity on the activities/initiatives where the constituent associations require Engineers Canada to develop a national consensus and take a lead role when requested;
- and ensuring open and transparent communications.

Participants had an opportunity to provide input and the Synergy Task Force (of which I am a member) met on March 10th to review the plenary and feedback from the CAs. The purpose of the meeting was to develop and agree upon the changes based on the plenary and to present a set of recommendations for a new governance model. Many of these changes will affect the Board size and composition, ex-officio participation, executive committee composition, voting protocols for the Board and members and the connection of the Engineers Canada Director to their respective Councils. In Engineers and Geoscientists New Brunswick's case, your national directors are voting members of Council, as well as members of the executive committee. We are the exception across the country and in my view, this has been an advantage with respect to communication and alignment with national issues.

These recommendations will be presented to APEGNB Council for approval for ratification at the annual meeting of members in Vancouver in late May.

ENGINEERS CANADA PROFILE CAMPAIGN

At the October meeting, the chief executive officer was asked to review the campaign with the objective of refocusing the program at a reduced level of activity and for the president of Engineers Canada to approach the constituent associations to gauge their interest in continuing to support it, finance it and under what constraints and to report on his findings in February. For those in attendance at our annual meeting, you may recall this was part of a discussion from the floor.

Due to the need for further discussions and clarification on the participation of all constituent associations, the deadline to report on the CA support was extended to May 27, 2010. Meanwhile, a review by the Advisory Group of concepts and implementation schedule for 2010 will take place.

ENGINEERS CANADA FELLOWSHIP

Revised criteria now allow individuals who are in a jurisdiction other than Canada, who have provided an outstanding contribution to the advancement of the engineering profession within Canada, to be eligible for a fellowship.

ENGINEERING SUMMIT

Following the 2009 Montréal Engineering Summit, the Board of Directors endorsed the Montréal Declaration co-signed by the members of the Canadian

Engineering Leadership Forum (CELF), which include the Association of Consulting Engineering Companies – Canada, the Canadian Academy of Engineering, the Canadian Federation of Engineering Students, the Engineering Institute of Canada, and the National Council of Deans of Engineering and Applied Science. Together, they pledge to:

- Deliver Canadian engineering innovation domestically and to the global community
- Deliver specific engineering capabilities that will be needed in the future to improve health and safety, provide for a cleaner environment, and enable more sustainable development
- Address areas in which advocacy by the engineering profession can lead to public policy development and directly contribute to Canadians' quality of life
- Make educational enhancements that will encourage broader participation in the profession by all segments of the population and foster innovation

CORPORATE SPONSORSHIP POLICY

The Board of Directors approved a sponsorship policy that will allow Engineers Canada to enter into partnerships with corporations to finance specified activities. In exchange, Engineers Canada will provide partners with selected opportunities to co-market with Engineers Canada. Partner selection will be based on their ability to help maintain Engineers Canada's professional image and its integrity. They will have a published corporate social responsibility program that is in keeping with Engineers Canada's brand and mission and have a published commitment to reducing their environmental footprint.

Each partnership will be structured so that they do not undermine Engineers Canada's role as the federation of the engineering regulators nor be perceived to provide an unfair advantage to other corporations in that sector. Any criminal or unethical activities will be grounds for cancelling any agreement.

CANADIAN ENGINEERING ACCREDITATION BOARD AND CANADIAN ENGINEERING QUALIFICATIONS BOARD NOMINATIONS

The following individuals were approved by the Board of Directors:

Accreditation Board (CEAB)

Michel Couturier, P.Eng., member-at-large from New Brunswick
Rosamund Hyde, P.Eng., member-at-large, from British Columbia
Richard J. Kind, P.Eng., member-at-large, from Ontario

Qualifications Board

As chair, **Chris Zinck**, P.Eng., Engineers Nova Scotia
As vice-chair, **Suzelle Barrington**, ing.,OIQ
Past-chair, **John Manson**, P.Eng., APEGBC
Louise Quesnel, ing., OIQ

NEXT MEETINGS

Engineers Canada determines the dates of future meetings in consultation with its constituent associations and for 2010, those dates are as follows:

May 28-29, 2010, Engineers Canada Board of Directors and the Annual Assembly of the CAs, Vancouver, BC

October 6, 2010, Engineers Canada Board of Directors, Ottawa, ON

If there are any issues that the membership of APEGNB would like to discuss, or issues that you would like to be considered at the national level, please contact me at *ccpedirector@apegnb.com*.

PAR **BRENT E. SMITH**, ING.

RAPPORT DU REPRÉSENTANT AU CONSEIL D'ADMINISTRATION D'INGÉNIEURS CANADA

En tant que représentant d'Ingénieurs et géoscientifiques Nouveau-Brunswick (AIGNB) au conseil d'administration d'Ingénieurs Canada, je profite de l'occasion pour informer les membres de certains des enjeux dont on discute au niveau national. Ce rapport présente quelques-uns des résultats de la récente réunion du conseil d'administration d'Ingénieurs Canada qui s'est déroulée à Ottawa le 26 février 2010, y compris la séance plénière tenue conjointement avec les associations-membres comme l'AIGNB, c'est-à-dire les organismes d'attribution des permis d'exercice des provinces et des territoires.

GROUPE DE TRAVAIL SUR LA SYNERGIE

Par suite de la réunion de février du conseil d'administration, le conseil d'administration, les présidents et les directeurs généraux des associations-membres ont pris part à un atelier pour discuter d'une ébauche de proposition sur la gouvernance d'Ingénieurs Canada et sur ses principes directeurs qui comprennent :

- assurer une pleine représentation équitable par l'entremise des associations-membres;
- assurer l'engagement et la mobilisation des associations-membres;
- voir à la clarification des rôles dans le cas d'activités ou de démarches où les associations-membres demandent à Ingénieurs Canada de construire un consensus national et de jouer un rôle d'avant plan;
- assurer des communications ouvertes et transparentes.

Les participants ont pu exprimer leurs opinions et le groupe de travail sur la synergie (dont je suis membre) s'est réuni le 10 mars pour repasser la séance plénière et la rétroaction des associations-membres. La réunion avait pour objet de formuler les changements à apporter et de s'entendre en se guidant sur les discussions en séance plénière, puis de présenter un ensemble de recommandations pour un nouveau modèle de gouvernance. Plusieurs de ces changements auront des incidences sur la taille du conseil d'administration et sur sa composition, sur la participation d'office, sur la composition du bureau de direction, sur les protocoles d'élection du conseil d'administration et des membres et sur le lien entre les membres du conseil d'administration d'Ingénieurs Canada et leurs conseils respectifs. Dans le cas d'Ingénieurs et géoscientifiques Nouveau-Brunswick, vos représentants au national sont membres votants du conseil d'administration et membres du bureau de direction de leur association. Nous sommes l'exception au pays et, à mon avis, cela a été avantageux en ce qui a trait à la communication et à l'harmonisation par rapport aux enjeux nationaux.

Ces recommandations seront soumises à l'approbation du conseil d'administration de l'AIGNB en vue de leur ratification à l'assemblée annuelle des membres à Vancouver à la fin mai.

CAMPAGNE D'INGÉNIEURS CANADA POUR REHAUSSER NOTRE PROFIL

À la rencontre du mois d'octobre, on a demandé au chef de la direction d'examiner la campagne, afin d'axer le programme sur un niveau d'activité réduit et, au président d'Ingénieurs Canada, de consulter les associations-membres pour évaluer leur intérêt à continuer de soutenir et de financer la campagne et ce, à quelles conditions, et de faire part de ses constats en février.

Ceux qui ont assisté à notre assemblée annuelle se rappelleront que cela avait fait l'objet d'une discussion sur le parquet.

Compte tenu de la nécessité d'approfondir les discussions et d'obtenir des clarifications quant à la participation de chacune des associations-membres, la date limite pour rendre compte du soutien des associations-membres a été reportée au 27 mai 2010. Parallèlement, le groupe consultatif se penchera sur les concepts et sur le calendrier de mise en œuvre de la campagne en 2010.

TITRE DE FELLOW D'INGÉNIEURS CANADA

Les critères révisés permettent dorénavant aux personnes régies par des instances à l'extérieur du Canada qui ont été d'un apport exceptionnel à l'avancement de la profession d'ingénieur à l'intérieur du Canada de devenir admissible au titre de Fellow.

SOMMET DU GÉNIE

Après le sommet du génie de Montréal en 2009, le conseil d'administration a entériné la Déclaration de Montréal cosignée par les membres du Forum des leaders du génie canadien qui comprend l'Association des firmes d'ingénieurs-conseils – Canada, l'Académie canadienne du génie, la Fédération canadienne des étudiants et étudiantes en génie, l'Institut canadien des ingénieurs et le Conseil canadien des doyens d'ingénierie et des sciences appliquées. Conjointement, ils se sont engagés à :

- diffuser l'innovation canadienne en génie à l'échelle nationale et internationale;
- offrir les capacités d'ingénierie particulières qui seront nécessaires à l'avenir pour améliorer la santé et la sûreté, offrir un environnement plus sain et pour permettre le développement durable;
- aborder les domaines dans lesquels les interventions de la profession d'ingénieur peuvent influencer l'élaboration de politiques publiques et contribuer directement à la qualité de vie de la population canadienne;
- apporter des améliorations à l'éducation qui encourageront une plus large participation de tous les segments de la population à la profession et qui favoriseront l'innovation.

POLITIQUE EN MATIÈRE DE COMMANDITE D'ENTREPRISE

Le conseil d'administration a accepté une politique de commandite qui permettra à Ingénieurs Canada d'établir des partenariats avec des grandes entreprises pour financer des activités précises. En échange, Ingénieurs Canada offrira à ses partenaires certaines possibilités de faire du marketing conjoint avec Ingénieurs Canada. Le choix des partenaires s'appuiera sur leur capacité d'aider à soutenir l'image des professions d'Ingénieurs Canada et leur intégrité. Ces entreprises auront un programme public de responsabilité sociale de l'entreprise qui correspond à l'image de marque et à la mission d'Ingénieurs Canada et auront rendu public leur engagement de réduire leur empreinte écologique.

Chacun des partenariats sera structuré de manière à ne pas miner le rôle d'Ingénieurs Canada en tant que fédération d'instances de réglementation du génie et à ne pas laisser supposer par les autres sociétés de ce secteur qu'il y a avantage indu. Toute activité criminelle ou contraire à l'éthique sera un motif suffisant pour annuler toute entente.

NOMINATIONS AU BUREAU CANADIEN D'AGRÉMENT DES PROGRAMMES DE GÉNIE ET AU BUREAU CANADIEN DES CONDITIONS D'ADMISSION EN GÉNIE

Les personnes suivantes ont été approuvées par le conseil d'administration :

Bureau d'agrément

Michel Couturier, ing., membre à titre personnel du Nouveau-Brunswick;
Rosamund Hyde, ing., membre à titre personnel de Colombie-Britannique;
Richard J. Kind, ing., membre à titre personnel de l'Ontario.

Bureau des conditions d'admission

À la présidence : **Chris Zinck**, ing., Ingénieurs Nouvelle-Écosse;
À la vice-présidence : **Suzelle Barrington**, ing., Ordre des ingénieurs du Québec;
Président sortant : **John Manson**, ing., APEGBC;
Louise Quesnel, ing., OIQ.

PROCHAINES RENCONTRES

Ingénieurs Canada établit les dates de ses réunions après consultation de ses associations-membres et, en 2010, ces dates seront :

Les 28 et 29 mai 2010 : réunion du conseil d'administration d'Ingénieurs Canada et assemblée annuelle des associations-membres, Vancouver (C.-B.)

Le 6 octobre 2010 : réunion du conseil d'administration d'Ingénieurs Canada, Ottawa (Ont.)

Pour tout aspect dont souhaiterait discuter un membre de l'AIGNB, ou pour toute question que vous aimeriez voir soulevée sur la scène nationale, prière de communiquer avec moi à l'adresse *ccpedirector@apegnb.com*.

GARY VIVIAN, P.GEO.

GEOSCIENTISTS CANADA PRESIDENT'S MESSAGE

As President of CCPG - now operating under its new business name "Geoscientists Canada" - and now almost three quarters into my term, it is a pleasure to bring you an update on our recent activities and achievements. In fact, the Executive Committee decided this January that update articles like this, addressed to the members of its constituent associations (CAs), should come out at least twice per year; this is the first such article.

As many will know, geoscience is now a regulated profession in all jurisdictions across Canada except PEI and Yukon, and individuals must become licensed with the appropriate CA in each province or territory in which they intend to practice. Put very simply, this is the law!

Despite being a relatively young organization, with a small budget and staff, Geoscientists Canada has been actively responding to the needs of its CAs and has also been increasing visibility of professionalism in geoscience, both across Canada and abroad.

Our new strategic plan 2010-2015—the second such plan since our inception—was recently approved, with an implementation plan to be brought before the next Board of Directors meeting in Yellowknife this June.

The following are some recent achievements and developments directed by Geoscientists Canada and supported by the constituent associations:

- The ***Geoscience Knowledge and Experience Requirements for Professional Registration in Canada*** was completed and is now published as a colour booklet, and a Memorandum of Understanding was signed between all 10 constituent associations concerning its use.
- Geoscientists Canada continued to **expand its international relations** to raise awareness abroad of Canada's robust style of governance of professional practice. Geoscientists Canada is a regular observer at meetings of both the Association of State Boards of Geology (ASBOG) and the American Institute of Professional Geologists (AIPG) in the U.S., as both ASBOG and AIPG are of our meetings. Last year, Geoscientists

Canada attended the AGM of the European Federation of Geologists and we recently accepted an invitation to participate in a workshop, this April, in Brazil hosted by the Canada-Brazil Chamber of Commerce on securities reporting, the QP designation and regulation of mining-related professions in Canada.

- Geoscientists Canada is entering discussions with other countries, on behalf of its CAs, to seek **recognition for Canadian professional geoscientists** who need to become licensed in other countries and vice versa.
- **Mobility** and ease of transfer for geoscientists registered within Canada had been a significant issue. With the recent revisions to the Agreement on Internal Trade, things have changed and the CAs continue to further streamline transfers for those P.Geo's who pose no risk to the public.
- Geoscientists Canada is in the design phase of an initiative to develop tools and material for use by its CAs for a **National Licensure Compliance Awareness Program** focused on those geoscientists practicing in different parts of Canada, who have not yet applied to become registered professionals. This program, which is in the public interest and of national importance, will alert all un-registered practitioners of their legal obligation to become registered.
- Geoscientists Canada is a founding sponsor and co-organizer of technical sessions at the **GeoCanada 2010 conference**–Canada's 10th yearly geoscience summit—which takes place in Calgary, May 10 to 14.
- Work on a collective **national framework for the development of geoscience professional practice guidelines** is well underway. This initiative is in direct response to requests from the CAs for pan-Canadian collaboration on this challenging topic; and Geoscientists Canada was successful in securing federal government funding for the work. The project steering committee is made up of appointees from seven CAs—making this another truly national team. Their work is benefiting in particular from APEGBC's willingness to allow its policy document on development of new practice guidelines to be used as a key starting point for the new national framework.
- Finally, Geoscientists Canada recently commenced a major new project of collaboration with the CAs to collectively examine admissions processes and tools for the consideration of applications for licensure from **Internationally Trained Geoscientists**. This "ITG" project, which will run for 24 months, is funded through Human Resources and Skills Development Canada's Foreign Credential Recognition Program.

It is extremely important that we have such a vibrant, Canada-wide forum and point of focus that is CCPG—now Geoscientists Canada—for a profession like geoscience which is so global in scope and so international in all its practice and business sectors.

Our constituent associations provide Geoscientists Canada with strong support and invaluable input and guidance in focusing our strategic objectives. On their behalf and consistent with their mandates, we continue to place our strongest emphasis on "protection of the public interest".

APEGNB GRADUATE SCHOLARSHIPS AVAILABLE
DEADLINE FOR SUBMISSIONS: JUNE 30, 2010

ADVANCED STUDIES SCHOLARSHIP- $6,000 in total for post-graduate studies: $3,000 for Masters and $3,000 for Doctorate. Awarded annually to a P.Eng. or P.Geo. registered with APEGNB, or a Member-in-Training enrolled with APEGNB for at least two years as of September 1st in the year the award is received.

OTTIS I. LOGUE GRADUATE SCHOLARSHIP- $4,000 awarded annually to an engineering graduate who has been accepted into a post graduate program at the University of New Brunswick or Université de Moncton.

LES BOURSES D'ÉTUDES SUPÉRIEURES- *6 000 $ au total pour des études de deuxième et troisième cycle : 3 000 $ pour la maîtrise et 3 000 $ pour le doctorat. Attribuées chaque année à un membre cotisant de l'AIGNB, détenteur du titre ing. ou géosc., ou membre stagiaire inscrit depuis deux ans à compter du 1er septembre de l'année de la remise de la bourse.*

LA BOURSE COMMÉMORATIVE OTTIS I. LOGUE- *4 000 $ est attribuée chaque année à un diplômé d'ingénierie qui a été accepté dans un diplômé à la poste études à l'Université du Nouveau-Brunswick ou l'Université de Moncton.*

FOR MORE INFORMATION, PLEASE CONTACT **RACHAEL@APEGNB.COM**
POUR TOUS RENSEIGNEMENTS, VEUILLEZ COMMUNIQUER AVEC NOUS **RACHAEL@APEGNB.COM**

GARY VIVIAN, GÉOSC.

MESSAGE DU PRÉSIDENT DE GÉOSCIENTIFIQUES CANADA

Rendu à près des trois quarts de mon mandat à la présidence du Conseil canadien des géoscientifiques professionnels (GCGP), dorénavant connu sous le nom « Géoscientifiques Canada », il me fait grand plaisir de vous informer de nos dernières activités et réalisations. En janvier dernier, le bureau de direction a en effet décidé que des articles de ce genre seraient publiés au moins deux fois par année pour tous les membres de nos associations-membres. Cette communication est la première de la série.

Comme vous le savez probablement déjà, les professions des sciences de la Terre sont maintenant réglementées dans tous les territoires canadiens, sauf à l'Île du Prince-Édouard et au Yukon. Les professionnels doivent dorénavant obtenir un permis de l'association-membre de la province ou du territoire où ils veulent exercer. En d'autres mots, c'est la loi!!!

Bien que Géoscientifiques Canada soit un organisme plutôt jeune qui ne dispose que d'un petit budget et d'un personnel restreint, il a su répondre aux besoins de ses associations-membres tout en augmentant la visibilité des professions des sciences de la Terre autant au Canada que dans le reste du monde.

Notre deuxième plan quinquennal depuis notre fondation, celui de 2010 à 2015, a récemment été approuvé et un plan de mise en œuvre sera présenté à la prochaine réunion du conseil d'administration à Yellowknife en juin.

Voici une liste de certaines réalisations et avancées récentes dirigées par Géoscientifiques Canada et appuyées par les associations-membres :

- Le document *Connaissance et expérience des géosciences requises pour l'inscription à titre professionnel au Canada* est terminé. Maintenant disponible sous forme de livret couleurs, il a fait l'objet d'un protocole d'entente signé par les dix associations-membres quant à son utilisation.
- Géoscientifiques Canada continue de **développer ses relations internationales**, afin de faire connaître à l'étranger la robustesse des pratiques canadiennes en matière de gouvernance et d'exercice des professions. Géoscientifiques Canada est un observateur régulier aux réunions de l'association des ordres de géologues des États-Unis *(Association of State Boards of Geology [ASBOG])*, ainsi qu'à celles de l'institut des géologues des É.-U. *(American Institute of Professional Geologists [AIPG])*. Ces deux organismes sont également présents comme observateurs à nos propres réunions. L'an dernier, Géoscientifiques Canada a participé à l'assemblée générale annuelle de la Fédération européenne des géologues et nous avons récemment accepté l'invitation de prendre part au mois d'avril au Brésil à un atelier sur la déclaration des titres de placement,

la désignation des personnes qualifiées et sur la régie des professions associées à l'exploitation minière au Canada. Cet atelier est organisé par la Chambre de commerce Canada-Brésil.

- Au nom de ses associations-membres, Géoscientifiques Canada entreprend des discussions avec d'autres pays, afin d'obtenir la reconnaissance mutuelle des géoscientifiques qui doivent obtenir un permis pour exercer leur profession à l'extérieur de leur pays.
- La mobilité et la facilité de transfert à l'intérieur du Canada des géoscientifiques inscrits restent des enjeux importants. Les révisions apportées récemment à l'Entente sur le commerce intérieur ont amené des changements et les associations-membres continuent de simplifier le transfert des géoscientifiques qui ne posent aucun risque au public.
- Géoscientifiques Canada en est également à la phase de conception d'une initiative pour développer des outils et du matériel à l'usage des associations-membres pour un programme national de sensibilisation à la conformité en matière d'attribution du droit d'exercer axé sur les géoscientifiques qui pratiquent dans différents endroits au Canada sans avoir fait leur demande d'inscription. Ce programme d'intérêt public d'importance nationale avertira ceux qui exercent la profession sans s'être inscrits que la loi les oblige à le faire en bonne et due forme.
- Géoscientifiques Canada est un parrain fondateur et coorganisateur de séances techniques au congrès GéoCanada 2010 – le 10e sommet annuel canadien des sciences de la Terre – qui aura lieu à Calgary du 10 au 14 mai prochains.
- Les travaux sur le **cadre national de développement de lignes directrices en matière d'exercice des professions des sciences de la Terre** vont bon train. Cette démarche répond directement aux demandes des associations-membres d'une collaboration pan canadienne sur cette question difficile. Géoscientifiques Canada a réussi à obtenir des fonds du gouvernement fédéral pour ces travaux. Le comité directeur du projet est constitué de membres nommés par sept associations-membres, ce qui en fait une autre équipe véritablement nationale. Ces travaux profitent en particulier de la bonne volonté de l'Association des ingénieurs et géoscientifiques de la Colombie-Britannique qui a accepté que son document de politiques pour l'élaboration de nouvelles lignes directrices en matière d'exercice serve de point de départ.
- Enfin, Géoscientifiques Canada a récemment entrepris un important projet de collaboration avec les associations-membres pour examiner conjointement les processus et les outils d'admission pour s'occuper des demandes de permis d'exercice de **géoscientifiques formés à l'étranger** (GFE). D'une durée de 24 mois, ce projet « GFE » est financé par Ressources humaines et Développement des compétences Canada dans le cadre de son Programme de reconnaissance des titres de compétences étrangers.

Il est extrêmement important pour les professions des sciences de la Terre, dont la portée est si globale et si internationale dans tous leurs secteurs d'activités, de disposer d'une tribune pan canadienne aussi dynamique que le CCGP –dorénavant Géoscientifiques Canada.

Nos associations-membres apportent à notre organisme un soutien indispensable et un apport des plus utile, ainsi qu'une orientation qui aide à préciser nos objectifs stratégiques. En leur nom et conformément à leurs mandats, nous continuons de mettre vigoureusement l'accent sur la « protection de l'intérêt public ».

THEY SAID IT BEST

"The third-rate mind is only happy when it is thinking with the majority. The second-rate mind is only happy when it is thinking with the minority. The first-rate mind is only happy when it is thinking."

A. A. MILNE, ENGLISH AUTHOR OF *WINNIE THE POOH*

"What the world needs is more geniuses with humility, there are so few of us left."

OSCAR LEVANT, AMERICAN MUSICIAN, AUTHOR, ACTOR

"It is the mark of an educated mind to be able to entertain a thought without accepting it."

ARISTOTLE, GREEK PHILOSOPHER

"Sometimes it is more important to discover what one cannot do, than what one can do."

LIN YU-T'ANG, CHINESE WRITER

"Concern for man and his fate must always form the chief interest of all technical endeavors.... Never forget this in the midst of your diagrams and equations."

ALBERT EINSTEIN, GERMAN PHYSICIST

UNB Professor Bruce Broster, P.Geo.,

ELECTED 90TH PRESIDENT

of Engineers and Geoscientists New Brunswick

Dr. Bruce Broster, **P.Geo.**, a geology professor at the University of New Brunswick, was elected the 90th president of Engineers and Geoscientists New Brunswick during our annual meeting held in Moncton. Dr. Broster is the Association's first elected geoscientist president.

Broster says he is honoured to be representing New Brunswick's 5,000 engineers and geoscientists. "Our Association is one of the largest regulatory bodies in the province. For the past 90 years, we have set and enforced the educational, ethical and technical standards for our professions. As a result, New Brunswickers can confidently rely on the work our members undertake to improve their quality of life."

***Dr. Eldo Hildebrand**, P.Eng., presents the President's Chain of Office to newly elected president, **Dr. Bruce Broster**, P.Geo. Dr. Broster is the 90th president of Engineers and Geoscientists New Brunswick and the association's first elected geoscientist president.*

Broster is quick to remind people that the work of engineers and geoscientists is crucial to building a prosperous future for Canadians.

"Governments around the world are making engineering and science the cornerstone of their economic strategies in light of the global financial meltdown. New Brunswick needs to continue their support of our professions and unequivocally establish them as central to the province's health and wealth."

Broster is also excited about plans to celebrate the Association's 90th anniversary. "This is a milestone year for us and we intend to showcase the pride in our professions and the contributions of our members. In addition to a new promotional campaign, Engineers and Geoscientists New Brunswick will soon be announcing a substantial legacy scholarship to encourage New Brunswick's aboriginal students to pursue careers in engineering or geoscience. It's going to be a memorable year for me and my colleagues on APEGNB's Council."

Broster is joined on APEGNB Council by eight other newly elected and appointed officials:

Darryl Ford, P.Eng., a departmental director with Fundy Engineering in Saint John, was elected vice-president of APEGNB.

Tom MacNeil, P.Eng., the head of environmental engineering for AMEC, was elected councillor for APEGNB's Fredericton District.

Paul Holah, P.Eng., manager of project services for Fluor Canada, was elected councillor for APEGNB's **Saint John** District.

Mathieu Breau, MIT, an employee of MCW Maricor, was elected councillor for APEGNB's Moncton District.

Marc Laforge, P.Eng., branch manager of Gemtec in **Grand Falls**, was appointed councillor for the APEGNB's Northwestern District.

Ken Thibodeau, MIT, who is employed with Xstrata in Bathurst, was appointed councillor for APEGNB's Northeastern District.

Annie Daigle, P.Eng./P.Geo., a hydrogeologist with the New Brunswick Department of Environment, was elected geoscientist-at-large.

George Filliter, LL.M., a Fredericton-based lawyer, was appointed to a two-year term as Lay Councillor.

Le professeur Bruce Broster, ing., de l'UNB

ÉLU 90e PRÉSIDENT

d'Ingénieurs et géoscientifiques Nouveau Brunswick

M. **Bruce Broster**, Ph.D., ing., professeur de géologie à l'Université du Nouveau-Brunswick, a été élu 90e président d'Ingénieurs et géoscientifiques Nouveau-Brunswick lors de la dernière assemblée générale annuelle de l'organisme à Moncton. M. Broster est le premier géoscientifique élu à la présidence de cette association.

Le professeur Broster se dit honoré de pouvoir représenter les 5000 ingénieurs et géoscientifiques du Nouveau Brunswick. « Notre association est l'un des plus grands organismes d'autorégulation de la province. Depuis 90 ans, nous établissons les normes éducationnelles, éthiques et techniques de nos professions et nous les appliquons. Par conséquent, les Néo-Brunswickoises et Néo-Brunswickois savent qu'ils peuvent se fier au travail réalisé par nos membres pour améliorer leur qualité de vie. »

M. Broster n'hésite pas à rappeler que le travail des ingénieurs et des géoscientifiques est essentiel à la construction d'un avenir prospère pour les Canadiennes et les Canadiens.

« Les gouvernements du monde entier choisissent le génie et la science comme assises de leur stratégies économiques dans le contexte de l'effondrement mondial du monde de la finance. Le Nouveau-Brunswick doit continuer d'appuyer nos professions et, sans équivoque, les situer au cœur de la santé et de la prospérité de la province. »

M. Broster est également très heureux des plans de célébration du 90e anniversaire de l'association. « Cette année sera marquante pour nous et nous avons l'intention de mettre en valeur la fierté de nos professions et les apports de nos membres. En plus d'une nouvelle campagne de promotion, Ingénieurs et géoscientifiques Nouveau-Brunswick annoncera bientôt une bourse patrimoniale substantielle pour que les étudiants autochtones du Nouveau-Brunswick envisagent faire carrière en génie ou en sciences de la Terre. L'année s'annonce mémorable pour moi et mes collègues du conseil de l'AIGNB. »

Huit autres personnes, élues ou nommées, se joignent à M. Broster au conseil d'administration de l'AIGNB :

Darryl Ford, ing., directeur de service chez *Fundy Engineering* à Saint John, a été élu à la vice-présidence de l'AIGNB.

Tom MacNeil, ing., chef de l'ingénierie de l'environnement chez AMEC, a été élu conseiller du district de Fredericton de l'AIGNB.

Paul Holah, ing., gestionnaire des services associés aux projets chez Fluor Canada, a été élu conseiller du district de **Saint John** de l'AIGNB.

Mathieu Breau, membre stagiaire employé chez *MCW Maricor*, a été élu conseiller du district de Moncton de l'AIGNB.

***M. Eldo Hildebrand**, Ph.D., ing., présente la chaîne de fonction de la présidence au nouveau président élu, **M. Bruce Broster**, Ph.D., géosc. M. Broster est le 90e président d'Ingénieurs et géoscientifiques Nouveau Brunswick et le premier géoscientifique élu à cette fonction.*

Marc Laforge, ing., directeur de la succursale de Gemtec à **Grand-Sault**, a été nommé conseiller pour le district du Nord-Ouest de l'AIGNB.

Ken Thibodeau, membre stagiaire qui travaille chez Xstrata à Bathurst, a été nommé conseiller du district du Nord-Est de l'AIGNB.

Annie Daigle, ing./géosc., hydrogéologue au ministère de l'Environnement du Nouveau-Brunswick, a été élue représentante provinciale des géoscientifiques.

George Filliter, LL.M., avocat établi à Fredericton, a été nommé conseiller de l'extérieur de la profession pour un mandat de deux ans. ■

ANNUAL MEETING 2010

Thursday, February 18

8:00 pm DOWNHOME JOIE DE VIVRE

Moncton-based Mason's Tender mix Acadian and Irish musical flavours to entertain the AGM delegates at the Old Triangle Pub.

(L to R): ***Andrew McLeod****, APEGNB's executive director and newly appointed lay councillor,* ***George Filliter****, LL.M, enjoy the pub atmosphere.*

A trio of AGM delegates sample the tasty appetizers.

Friday, February 19

8:30 am ANNUAL MEETING

(L to R): ***Andrew McLeod****, APEGNB's executive director;* ***Bruce Broster****, P.Geo., president-elect;* ***Eldo Hildebrand****, P.Eng., outgoing president; call the Annual Meeting to order.*

Friday, February 19

8:45 am GREETINGS FROM ACROSS CANADA

***Maud Cohen**, P.Eng., president of the Ordre des ingénieurs du Quebec, brings her association's greetings.*

*The president of Engineers Nova Scotia, **Dan MacDonald**, P.Eng., updates APEGNB on news at his association.*

*APEGGA past president, **Jim Beckett**, brings news from Alberta.*

9:00 am REVIEWING THE REPORTS

Prior to the vote, members review the annual meeting materials.

9:30 am VOTING COMMENCES

Members vote on the proposed by-law changes.

10:00 am AT THE MIC

*APEGNB member, **Nancy Black**, P.Eng., addresses the annual meeting.*

10:30 am DONATING $25,000+

*Outgoing president, **Eldo Hildebrand**, P.Eng., (left) presents a cheque to **Ed Smith**, P.Eng., chair of the APEGNB Foundation for Education. The $25,803.11 cheque represents the donations of 188 Association members.*

11:30 am CATCHING UP

*As the Annual Meeting is adjourned, past APEGNB presidents **Bill Paterson**, P.Eng., (left) and **Brian Barnes**, P.Eng., take a few minutes before lunch to say hello.*

12:00 pm RECOGNITION LUNCHEON

Among the 50 APEGNB members who were awarded Life Membership status, a dozen were on hand at Friday's Recognition Luncheon to receive their awards in person. Shown in the photo are:

(Standing L to R):
***Stephen Hayward**, P.Eng.; **Gregory Cook**, P.Eng.; **Hugh Drummond**, P.Eng.; **Eldo Hildebrand**, P.Eng. (APEGNB president); **Allen Hubbard**, P.Eng.; **Michael Whitford**, P.Eng.; **Donald Sinclair**, P.Eng.; **John Hanusiak**, P.Eng.*

(Seated L to R):
***Earle Arnold**, P.Eng.; **David MacKenzie**, P.Eng.; **Gordon Simms**, P.Eng.; **Roland Richard**, P.Eng.; **Curry Alders**, P.Eng.*

Missing from photo:
***Henry Bent**, P.Eng.; **Alyre Boucher**, P.Eng.; **Glenn Brown**, P.Eng.; **Kenneth Carson**, P.Eng.; **Neil Coy**, P.Eng.; **Bruce Crawford**, PEng.; **Roger Cyr**, PEng.; **Michael Delahunt**, P.Eng.; **Stephen Dow**, P.Eng.; **Blair Drake**, P.Eng.; **Paul Ferguson**, P.Eng.; **Leo Green**, P.Eng.; **Verne Ireton**, P.Eng.; **David Johnstone**, P.Eng., FEC; **David Kersey**, P.Eng.; **Claude Lacasse**, P.Eng.; **David Loukes**, P.Eng.; **Alexander MacPherson**, P.Eng.; **Camille Malenfant**, P.Eng.; **John McGraw**, P.Eng.; **Bruce McIlveen**, P.Eng.; **John Narraway**, P.Eng.; **William Nolan**, P.Eng.; **Henry Palmer**, P.Eng.; **John Palmer**, P.Eng.; **Jacques Picard**, P.Eng.; **Ulysse Power**, P.Eng.; **Paul Rathburn**, P.Eng.; **Wayne Reid**, P.Eng.; **Robert Ridgway**, P.Eng.; **Walter Ross**, P.Eng.; **David Roy**, P.Eng.; **James Snider**, P.Eng.; **James Steen**, P.Eng.; **David Steeves**, P.Eng.; **James Steeves**, P.Eng.; **Malcolm Vail**, P.Eng.; **Byron Walton**, P.Eng.*

2:00 pm PROFESSIONAL DEVELOPMENT

***Mike Gillis**, P.Eng.; chair of the 2010 Annual Meeting Committee, introduces the afternoon's guest speaker, **John Drexhage**.*

*International climate change expert, **John Drexhage**, gave APEGNB members a timely overview of government and market realities during his presentation:* **Where to Now? The Uncertain Future of Climate Change in the World of Negotiations, Regulation and Policy Developments**

6:00 pm AWARDS BANQUET

*(L to R): Past APEGNB presidents, **Ed Smith**, P.Eng., and **Euan Strachan**, P.Eng., **Helen Strachan**; and **Jeannette Touchie**, arrive in time to enjoy the pre-Banquet reception.*

*The evening's head table guests pose for an official picture: (L to R): **Bruce Broster,** P.Geo., incoming president; **Dan Motyka**, P.Eng., president of Engineers Canada; **Johanna** and **Eldo Hildebrand**, P.Eng., APEGNB's immediate past president; **Janet** and **Mike Gillis**, P.Eng.; **Kathy** and **Brent Smith**, P.Eng., APEGNB's Engineers Canada Director*

8:00 pm AWARD WINNERS

Expressing their appreciation for being honoured by the Association are:

Hollis Cole**, P.Eng.—recipient of APEGNB's highest honour, the **C.C. Kirby Award

Shannon Grant**, P.Eng.—representing ADI Systems Inc.—recipient of the **Corporate Award of Excellence

Sherry Sparks**, P.Eng.—the first recipient of the **Support of Women in Engineering Award

Dean Thibault**, P.Eng.—recipient of the **Individual Award of Merit for Technical Excellence

Conrad Allain**, P.Eng.—recipient of the **Individual Award of Merit for Technical Excellence

9:00 pm THANK YOU

*President **Bruce Broster**, P.Geo., presents **Johanna Hildebrand**, wife of past president, **Eldo Hildebrand**, with a token of appreciation from APEGNB.*

BY **BARRY LAVERICK**, P.ENG.

A rare opportunity to visit a wildlife preserve in Rwanda

WORLD WATER CORPS

brings health and hope to millions

Around the world, 884 million people do not have access to safe drinking water and 2.5 billion are without adequate sanitation facilities. Every day, nearly 6,000 people die from water-related illnesses, with the majority being children. However, Water For People has now given the water and wastewater industry the mechanism to make meaningful change with the development of the World Water Corps®.

The World Water Corps® (WWC) was launched in 2006. It is a volunteer program that gives water and wastewater professionals the opportunity to travel abroad and support the development of sustainable drinking water projects, sanitation projects and hygiene education programs. The WWC is working in program evaluation, monitoring, mapping, and baseline assessment. Hydrology will be added to their tasks in 2010.

Historically, Water For People (WFP) has operated in Bolivia, Guatemala, Honduras, Malawi and India but recently they have expanded their operations into Ecuador, Nicaragua, Rwanda, Uganda, the Dominican Republic and Peru.

Chris Rogers, P.Eng., a WWC volunteer and Ontario engineer, writes of his experiences in Rwanda:

"...the sole Canadian volunteer, I had the pleasure of working with a hard-working group of Americans and Belgians over a very intense two-week period in February, 2009. We were each assigned a university student (all orphans of the genocide), a group of local officials, and a sector in Kicukiro district. Our days were spent in the field, inspecting water and sanitation facilities, and interviewing community leaders and members of the local population. Our nights were spent documenting our observations. Our field work exposed us to a range of generally miserable living conditions, from rural areas on the outskirts of Kigali, to the slums of Kigali itself. Rwanda has the highest population density in Africa. (The density of the entire country is higher than that of the City of Ottawa!) There was a lot to cover in two weeks.

Rwanda generally has a lot of water, most of the year. Unfortunately, there are extensive shortages throughout the dry season, and contamination is also a major problem. Most of the

Children in Malawi

Bolivian girls at a community tap

WWC team in Rwanda

population in Kicukiro gets water from community taps and uses some form of latrine, which are often shared among several households. These latrines are often poorly constructed and in horrendous condition. The taps draw water from wells, or are piped in from a central source. Water quality is unreliable, with suspected contamination from latrines and other sources. Those who can afford to, boil their drinking water. Many who can't, get sick and tend to die young.

One day, I was waiting for my sector driver to pick me up outside an orphanage when I was swarmed by about 30 kids on their way home from school. One pulled out a text book and began teaching me to count in Kinyarwanda. They laughed a lot as I stumbled from one to five."

WFP NEEDS YOUR EXPERTISE!

The WWC is not for everyone but, if you feel you have what it takes, WFP needs you!

Often, days are difficult and dealing with conditions in some of the poorest areas of the world can be physically and mentally straining. However, if you are up to the challenge they guarantee an experience you will never forget.

For more information regarding the World Water Corps® , visit **www.worldwatercorps.org** or email *abritton@waterforpeople.org*.

CONTEST CORNER

In the Winter 2010 edition of *Engenuity*, we wanted to know who invented the Constructal Theory.

If you guessed "**D: Adrian Bejan**", then congratulations! You were correct... and so were the folks listed at right whose names were the first five drawn with the correct answer.

The Constructal Theory, developed by Dr. Bejan in 1996, defines a "live" system as anything that flows, and continues to flow—from river basins and trees to lungs and animal migrations. These patterns of nature guide engineers in achieving novel design for complex systems.

(The other three names listed along with Dr. Bejan in the Contest Corner were aerospace engineer **Edward Aloysius Murphy**–the inventor of Murphy's Law; structural engineer **John Fleetwood Baker** who was responsible for the plastic theory of design; and **Jack Kilby**, the electrical engineer who invented the integrated circuit.)

Fall 2009 / Winter 2010

CONTEST CORNER WINNERS

Lucinda Pype, *P.Eng.*
Lancaster, PA

David Creber, *P.Eng.*
Saint John, NB

Leo Cheung, *P.Eng.*
Fredericton, NB

Erika Robinson, *P.Eng.*
Point Lepreau, NB

Tyler Ross, *MIT*
Moncton, NB

IF YOU'D LIKE YOUR OWN APEGNB PRIZE PACKAGE, THEN TELL US

WHICH HOLLYWOOD DIRECTOR'S FATHER WAS AN ENGINEER?

A. TIM BURTON
B. JAMES CAMERON
C. M. NIGHT SHYAMALAN
D. GEORGE LUCAS

To win this season's Engenuity prize package, e-mail your answer to ***melissa@apegnb.com*** by **June 18, 2010**.
The first five correct submissions drawn get APEGNB-branded swag (which includes a ball cap, t-shirt, visor and sling pack).

***Wayne Steeves** (left), MLA for Albert County and past APEGNB president, **Eldo Hildebrand**, P.Eng.*

APEGNB's Annual

MLA RECEPTION

gives legislators a glimpse into our Association history… and future

*APEGNB president **Bruce Broster**, P.Geo., with **Joan MacAlpine-Stiles**, MLA for Moncton West.*

***Bruce Broster**, P.Geo. and Hon. **Rick Miles**, Minister of Environment*

***Marc Laforge**, P.Eng., Councillor for APEGNB's Northwestern Branch and Hon. **Ronald Ouellette**, Minister of Agriculture and Aquaculture.*

APEGNB Council hosted its fifth annual reception for New Brunswick government officials March 24 at the Crowne Plaza Lord Beaverbrook Hotel in Fredericton.

Cabinet ministers, elected officials and senior government representatives were in attendance as APEGNB president **Bruce Broster**, P.Geo., promoted past contributions of New Brunswick's engineers and geoscientists and highlighted some upcoming initiatives as part of our 90th anniversary celebrations.

"If you looked at our membership roster in 1920—the year our association was incorporated in Saint John," said Broster, "you'd find the names of 117 members. Most of them were civil engineers.

"Ninety years later, after assuming the responsibility of regulating the geoscience profession in 1999, New Brunswick has more than 5000 members working in more than a dozen different areas of practice. Additionally, we license more than 450 companies to practice engineering and geoscience in the province."

Broster also mentioned some activities the Association will be undertaking to celebrate our 90th anniversary including the establishment of a new scholarship and a new advertising campaign.

"We want people to know that engineers and geoscientists are the people who lead innovation; spur economic growth; and make New Brunswick a better, safer place in which to live, work and do business," he said.

The president also expressed the Association's gratitude to the government for bringing Bill 28 forward so that New Brunswick's ultimate limitation period for professionals would be in line with most other provinces—which is 15 years.

*(L to R): **Patrick Murphy,** P.Eng., assistant deputy minister of employment development; **Brent Smith**, P.Eng., APEGNB's Engineers Canada director; **Bruce Fitch**, MLA, for Riverview*

*(L to R): **Stéphanie Doucet-Landry**, P.Eng., Councillor for APEGNB's Northeastern Branch; **Hon. Denis Landry**, Minister of Transportation; **Hon. Hédard Albert**, Minister of Wellness, Culture and Sport; **Maryse Doucet**, P.Eng., Councillor for APEGNB's Moncton Branch.*

*(L to R): **Paul Holah**, P.Eng., and **Holly Young**, P.Eng., Councillors for APEGNB's Saint John Branch; **Tom MacNeil**, Councillor for APEGNB's Fredericton Branch.*

***Dale Graham**, MLA, Carleton and APEGNB vice-president, **Darryl Ford**, P.Eng.*

SUBMITTED BY **DAVID LAPP**, P.ENG. MANAGER, PROFESSIONAL PRACTICE, ENGINEERS CANADA AND **DARREL DANYLUK**, P.ENG., PAST PRESIDENT OF ENGINEERS CANADA AND CHAIRMAN OF WFEO COMMITTEE ON ENGINEERING AND THE ENVIRONMENT

WFEO – THE UN OF THE ENGINEERING PROFESSION

Think of the World Federation of Engineering Organizations (WFEO) as the United Nations of the engineering profession.

Formed in 1968 under the auspices of the United Nations Educational, Scientific and Cultural Organization (UNESCO), WFEO encompasses engineering organizations in more than 90 countries and about 15 million individual engineers within national and regional groups.

At the international level, WFEO functions roughly as Engineers Canada does relative to our provincial and territorial associations. WFEO has linked with International Union of Technical Associations and Organizations to form an even broader grouping, the International Council for Engineering and Technology, which is designated as one of 12 non-governmental organizations (NGOs) formally associated with UNESCO. The Federation also retains close ties with the International Federation of Engineering Education and the International Federation of Consulting Engineers.

WHAT THEY DO AND HOW THEY DO IT

Within its wide mandate, WFEO provides professional leadership and guidance. Key Federation activities include:

- facilitating engineering education and qualifications transferability
- serving as a bridge-builder between developed and developing nations, and
- serving as a catalyst for business, governments and professional co-operation.

A secretariat and executive director are based in Paris and an information office is located in Tunis, Tunisia. Between the biennial meetings of the general assembly, the top decision-making body, WFEO's executive council meets quarterly to provide leadership and direction.

However, much legwork is done through nine WFEO standing technical committees covering:

- Technology;
- Information and Communications;
- Education and Training;
- Energy;
- Capacity Building;
- Anti-Corruption;
- Disaster Risk Management
- Women in Engineering; and
- Engineering and the Environment.

The standing committees include specialized working groups for examining specific topics and sharing information, often through international and regional conferences. In many cases, the issues parallel those of interest to provincial and territorial associations, as well as individual engineers in Canada.

COMMITTEE ON ENGINEERING AND THE ENVIRONMENT

The Committee on Engineering and the Environment is currently chaired by Canada with Engineers Canada and APEGGA past president **Darrel Danyluk**, P.Eng., assuming leadership of the committee. In this capacity, Darrel is also a vice-president of WFEO and a member of its executive council. The committee has members from 21 countries and is implementing a strategic plan that covers five theme areas. This work will be the subject of a future article.

The World Federation of Engineering Organizations, through the Committee on Engineering and the Environment, is a registered observer organization with the United Nations framework convention on climate change (UNFCCC).

In December 2009, Danyluk represented WFEO and Engineers Canada's public infrastructure engineering vulnerability committee at the UNFCCC conference of the parties meeting No. 15 in Copenhagen.

As well, WFEO is pro-actively presenting the engineering perspective to the UN's commission on sustainable development through a committee that includes the chairs of environment, energy and capacity building together with the president.

COMMITTEE ON EDUCATION AND TRAINING

The main activities of the Committee on Education and Training (CET), currently chaired by Lebanon, include education for innovation, education for mobility, education for development and education and training scenarios for engineers by 2020.

CET publishes a journal called IDEAS. Issue No. 14 was devoted to *Education for Innovation* and No. 15 on *Education for Development*—both of which are available on the WFEO website. It recently produced a WFEO strategy for mobility of engineers. That includes an associated position paper and draft policy, which will be published in an upcoming issue of IDEAS.

COMMITTEE ON WOMEN IN ENGINEERING

The Committee on Women in Engineering, chaired by France, was formed a year ago with its mission defined in four points:

1. developing and confirming the position of WFEO regarding the new social challenges of participation and leadership of professional women in a sustainable way;

Continued on page 53…

SUBMITTED BY **DR. NANCY BLACK**, P.ENG.,ASSOCIATE PROFESSOR
DEPARTMENT OF MECHANICAL ENGINEERING,UNIVERSITÉ DE MONCTON

12TH ANNUAL ERGONOMISTS CONFERENCE—Halifax, NS

The 12th annual Conference of the Association of Canadian Ergonomists (Atlantic region) was held in Halifax on March 11 and 12 at the Lord Nelson Hotel. The conference theme, *Creating Organizational Resilience and Competitiveness – a human-centered perspective*, was a topic particularly relevant to engineers and ergonomists alike.

Not surprisingly, four APEGNB members served on the conference organizing committee: **Jeremy Rickard**, P.Eng., **Dr. Usha Kuruganti**, P.Eng., **Dr. Nancy Black**, P.Eng. and **Gino Thomas**, P.Eng. An Engineers Nova Scotia member, **Anne-Marie Belliveau**, MIT, rounded out the engineering contingent.

International and national experts were featured presenters along with a panel discussion and presentations by students from Atlantic universities. Indeed, students of the senior industrial engineering course "interface design" (GIND4820) at the Université de Moncton won first prize in the poster competition which included entries from UNB, and Dalhousie University.

Louis Gervais, final year student of civil engineering in the engineering management orientation and **Lyne Boudreau**, fourth year student in kinesiology, won for their poster *Analyse de cinq differentes interfaces de clavier*.

A professor of engineering from the University of Waterloo (systems design) led the day-long pre-conference workshop *Bridging the Gap between Technical and Usable Design*. **Dr. Carolyn MacGregor** developed an analytical tool that is a combination of mapping and brainstorming for small groups, allowing participants to experience usability first hand and in a broad context. Participants were actively involved in design ... being part of a human wheelbarrow!

Leslie Fountain, joint managing director, Systems Concepts (an ergonomics consulting company located in London, England), spoke on *Creating Competitive Advantage through a Human Centered Approach*. She addressed the need for competitive organizations to be creative, flexible and resilient, achieving this by hiring better people, developing better processes and creating a better company culture.

Fountain also pointed out some packaging design fiascos (e.g., the square Costco milk containers which the shipping department liked because it saved packing space on the pallets but which consumers gave a thumbs down since the containers weren't easy to pour!).

Dr. Kevin Kelloway, founding director of the CN Centre for Occupational Health and Safety, noted that mere job satisfaction was insufficient and that we could, and should, "love" our jobs.

His presentation, *I love my job: Design Characteristics of Healthy Work* included four core elements – challenge, control, climate, and leadership.

Jonathan Tyson, moderated a panel discussion, which included personnel expert **Dr. Colin Guthrie** and **Daniel Makhan**. They explored processes for organizational resilience and financial performance through system design and ergonomics.

Founded in 1968, the Association of Canadian Ergonomists, a member of the International Association of Ergonomists, brings together organizations and individuals who are focused on ergonomics, human factors, health and safety in every Canadian workplace. The Atlantic region represents members in New Brunswick, Nova Scotia, Prince Edward Island and Newfoundland and Labrador.

INDUSTRIAL ENGINEERING TEAM FROM U DE M ATTENDS CANADIAN SOCIETY FOR INDUSTRIAL ENGINEERING ANNUAL CONFERENCE

This year, a team of seven students from the industrial engineering stream at the Faculté d'ingénierie, accompanied by **Nancy Black**, P.Eng., responsible for industrial engineering, attended the National Conference of the Canadian Society for Industrial Engineering (CSIE) linked to the international Institute of Industrial Engineers (IIE).

Under the theme "Innovation, Opportunities and Challenges for Today's Industrial "Engineers", the Conference organized by the University of Windsor, Ontario, was held from January 14th to 17th 2010.

More than 400 students and professionals from across the country and from the United States attended.

During the Conference, students had the opportunity to reinforce their training through workshops, tours and competitions touching various aspects of current events in the industrial engineering community. Students also took part in other industrial tours at Toyota and Eurocopter (organised by **Robert Méthé**, president of University of Moncton's IIE Student Chapter 916).

The **Faculté d'ingénierie** *team at the CSIE Conference – from left to right:* ***Marc Daigle*** *(4th Mech. Eng. – Ind. Eng. Stream),* ***Stéphane Charlebois*** *(5th Mech. Eng. – Ind. Eng. Stream),* ***Adam Hearn*** *(5th Mech. Eng. – Ind. Eng. Stream),* ***Vicki-Anne Ferron*** *(2nd Civ. Eng.),* ***François D'Entremont*** *(3rd Civ. Eng. – Eng. Mgmt Stream),* ***Jean-Martin Archer*** *(5th Mech. Eng. – Ind. Eng. Stream) and* ***Robert Méthé*** *(5th Mech. Eng. – Ind. Eng. Stream).*

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PAR **NANCY BLACK**, PH.D., ING., PROFESSEURE AGRÉGÉE
DÉPARTEMENT DE GÉNIE MÉCANIQUE, UNIVERSITÉ DE MONCTON

12E CONGRÈS ANNUEL D'ERGONOMIE—Halifax (N.-É.)

Le 12e congrès annuel de l'Association canadienne d'ergonomie (région de l'Atlantique) s'est déroulé à Halifax les 11 et 12 mars à l'hôtel Lord Nelson. Le thème du congrès, *Créer la résilience et la compétitivité organisationnelles* – une perspective axée sur l'humain, était un sujet des plus pertinent tant pour les ingénieurs que pour les ergonomes.

Il n'est pas étonnant que quatre membres de l'AIGNB siégeaient au comité organisateur du congrès : **Jeremy Rickard**, ing.; **Usha Kuruganti**, Ph.D., ing.; **Nancy Black**, Ph.D., ing., et **Gino Thomas**, ing. Une membre d'Ingénieurs Nouvelle-Écosse, **Anne-Marie Belliveau**, membre stagiaire, complétait les effectifs du génie.

Des experts de renommée nationale et internationale faisaient partie des conférenciers en vedette, le tout assorti de tables rondes et d'exposés d'étudiants des universités de l'Atlantique. Par ailleurs, des étudiants du cours avancé de génie industriel, « Conception d'interfaces » (GIND4820), de l'Université de Moncton ont remporté le premier prix du concours d'affiche qui comptait des inscriptions de l'UNB et de l'Université Dalhousie.

Louis Gervais, étudiant en dernière année de génie civil dans l'orientation gestion de l'ingénierie, et **Lyne Boudreau**, étudiante en quatrième année de kinésiologie, ont gagné grâce à leur affiche *Analyse de cinq différentes interfaces de clavier*.

Une professeure en génie de l'Université de Waterloo (conception de systèmes) a animé l'atelier d'une journée intitulé *Combler l'écart entre la technique et la convivialité en conception*. **Carolyn MacGregor**, Ph.D., a élaboré un outil analytique qui associe la cartographie et les remue-méninges en petits groupes, permettant aux participants de percevoir directement la convivialité dans un contexte global. Les participants ont pris part à la conception... faire partie d'une brouette humaine!

Leslie Fountain, codirectrice générale chez *Systems Concepts* (une firme-conseil en ergonomie de Londres en Angleterre), a prononcé une allocution sur une perspective axée sur l'humain pour acquérir des avantages concurrentiels. Elle a abordé la nécessité que les organismes compétitifs fassent preuve de créativité, de souplesse et de résilience, ce à quoi ils peuvent arriver en embauchant des personnes de meilleur calibre, en élaborant de meilleurs processus et en créant une meilleure culture d'entreprise.

Fountain a aussi fait part de quelques fiascos en conception d'emballages (par exemple les contenants de lait carrés de Costco que le service d'expédition de marchandises aimait parce qu'il économisait de l'espace sur les palettes, mais que les consommateurs ont rejeté, car il était difficile de verser le lait qu'ils contenaient!).

Kevin Kelloway, Ph.D., directeur fondateur du Centre de santé et de sécurité du travail du CN, a pour sa part rappelé que la simple satisfaction de son travail ne suffisait pas, et que nous pouvions, et devions, « adorer » nos emplois.

Son exposé intitulé *J'adore mon emploi : caractéristiques de la conception d'un travail sain* comprenaient quatre éléments de base – les défis, les contrôles, le climat et le leadership.

Jonathan Tyson a dirigé une table ronde qui comptait le spécialiste en matière de personnel, **Colin Guthrie**, Ph.D., et l'ergonome **Daniel Makhan**. Ils ont abordé les processus qui mènent à la résilience organisationnelle et au rendement financier grâce à la conception de systèmes et à l'ergonomie.

Fondée en 1968, l'Association canadienne d'ergonomie est membre de l'Association internationale d'ergonomie; elle regroupe des organismes et des personnes qui sont rattachées à l'ergonomie, aux facteurs humains, ainsi qu'à la santé et à la sécurité dans tous les lieux de travail canadiens. La région Atlantique regroupe les membres du Nouveau-Brunswick, de la Nouvelle-Écosse, de l'Île-du-Prince-Édouard et de Terre-Neuve-et-Labrador.

L'ÉQUIPE DES ORIENTATIONS DE GÉNIE INDUSTRIEL DE L'UNIVERSITÉ DE MONCTON AU CONGRÈS ANNUEL DE LA *SOCIÉTÉ CANADIENNE DE GÉNIE INDUSTRIEL*

Cette année, une équipe de six étudiants et d'une étudiante des **orientations de génie industriel** à la Faculté d'ingénierie a assisté, en compagnie de **Nancy Black**, ing., responsable du génie industriel, au congrès national de la Société canadienne de génie industriel (SCGI) associée à l'institut de génie industriel (*Institute of Industrial Engineers; IIE*) des États-Unis.

Ayant pour thème « Innovation, possibilités et défis pour le génie industriel », le congrès était organisé par l'Université de Windsor (Ontario) du 14 au 17 janvier 2010. Plus de 400 étudiants et professionnels provenant de tous les coins du pays et des États-Unis étaient présents.

Lors du congrès, les étudiants ont eu la chance d'enrichir leur formation en profitant d'ateliers, de visites et de compétitions traitant de divers aspects de l'actualité du monde du génie industriel. Nos étudiants ont de plus participé à d'autres visites industrielles chez Toyota et chez Eurocopter (organisées par **Robert Méthé**, président du chapitre étudiant 916 de l'IIE de l'Université de Moncton).

*L'équipe de la **Faculté d'ingénierie** au congrès de la SCGI – IIE 2010. De gauche à droite: **Marc Daigle** (4e GMEC – orient. GIND), **Stephane Charlebois** (5e GMEC – orient. GIND), **Adam Hearn** (5e GMEC – orient. GIND), **Vicki-Anne Ferron** (2e GCIV), **François D'Entremont** (3e GCIV – orient. gestion de l'ingénierie), **Jean-Martin Archer** (5e GMEC – orient. GIND) et **Robert Méthé** (5e GMEC – orient. GIND).*

…continued from page 49

2. offering support to increase a real comprehension of the activities to enable institutions to integrate the gender dimension in the engineering profession;
3. helping WFEO members increase the number of women engineers among their membership and in their organizations; and,
4. helping organizations worldwide attract young females interested in becoming engineering professionals.

Suzelle Barrington, P.Eng., a member of the Canadian Engineering Qualifications Board is the Engineers Canada representative on this committee.

COMMITTEE ON ANTI-CORRUPTION

Meanwhile, the Committee on Anti-Corruption, led by Tunisia, has emphasized awareness, education and communication to provide WFEO members with the means to identify and combat corruption. This committee's work further demonstrates how engineers, through WFEO, can ally themselves with other professional initiatives. An example is the American Bar Association's World Justice Project, which supports programs such as a 2009 workshop held in Italy on business integrity management in infrastructure and procurement.

OTHER WFEO COMMITTEES

Worldwide promotion and development of effective engineering practices remains another important objective of WFEO, which makes particular effort through the Committee on Technology (chaired by India) to encourage developing countries to develop their technical capacities.

The name of the Committee on Capacity Building led by the United States, points to its central objective of mentoring and guiding young engineers. A recent result of the committee's efforts is a *Capacity Building Guide Book* for use in developed and developing countries. Other standing committees, notably those on Information and Communications (chaired by China), and Engineering and the Environment, also have a definite international developmental focus to their work.

It all means that WFEO provides Canada's engineering professionals a window on the world as well as a doorway for the entry of new ideas.

For more information about the World Federation of Engineering Organizations visit
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