

PERSPECTIVES

THE NEWSLETTER OF CSBE Fall 2009 Automne LES NOUVELLES DE SCGAB

A Few Words From President Dennis Hodgkinson

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The end of another year has arrived amid ongoing economic turbulence.

Those of us involved with Canadian Animal Agriculture are especially anxious to turn the page. Recent times have been especially difficult for the Swine Production Industry. It has been most disheartening to see the devastating effects that the cumulative losses over the last 2 years have had on our Western Canadian Clients who worked so hard to build over the past two decades. I have the sense that there is a lack of public compassion for the plight of this group of food producers who, despite ongoing strong global demand for pork meat, have suffered from a "perfect storm" of negative impacts that have been largely out of their direct control. These factors have included volatility in feed costs, in part due to increasing demand in non-traditional uses such as bio-fuels, loss of the export advantages as our dollar migrated toward parity with the American dollar, non-tariff barrier to free trade such as Country of Origin labelling requirements in the USA and International Trade Embargos based on technically unjustifiable animal health and meat safety issues such as the most recent HINI flu virus, all of this against the backdrop of recent credit challenges and general economic uncertainty.

To add insult to injury, our beleaguered pork industry garners little public support as a result of a legacy of being cast as the environmental villain in the rural landscape over the past two decades. The primary responsibility for losing the war of public opinion rests with the industry who mounted an ineffective counter attack to environmental propaganda shrouded in the cloak of seemingly scientific fact. For the first ten years prevailing industry wisdom was to keep a low profile, stick to our business and the fanatics will pass by. By the time it was accepted the battle for the hearts and minds of the general public was lost and recovery unattainable. It is with some remorse that I reflect on the past few years, not sure that we as a professional discipline have done all we might have to better shape an industry that seemed to have a huge potential for sustainable growth 25 years ago. Hopefully we will have another change ahead.

I have recently attended a meeting of the ASABE Board of Trustees on your behalf. As you may be aware, ASABE has been working through some difficulties related to the executive management of the Society. Under the steady hand of the current President, Ron Yoder, operational stability prevails and progress toward permanent solutions is being made.

Inside this issue: Dans ce numéro:

| | |
|---|------------|
| President's message <i>Un mot du président</i> | 1-3 |
| Fellows nominations | 3 |
| AGM 2010 & CIGR | 3 |
| Jayas named Fellow <i>Erratum</i> | 4 4 |
| Manager's report <i>In Memoriam</i> | 5 6 |
| News Coast to Coast <i>British Columbia News</i> | 6-15 6 |
| Saskatchewan News <i>Job opportunity</i> | 7-10 10 |
| Manitoba News | 11 |
| Ontario News | 12 |
| Nouvelles du Québec | 13-15 |
| News Release <i>Workshop/Conference</i> | 16 17 |
| USask Engineering Gala | 18 |
| Notices <i>Coming events</i> | 19 20 |
| CSBE/SCGAB Council for 2009-2010 | 21 |

(Continued on page 2)

(Continued from page 1)

Plans are proceeding well for the 2010 Meeting in Quebec City. We look forward to a strong turnout by our membership at this rare opportunity for broad exposure to the people who pursue common interests from around the globe. Your participation will be of self benefit as well as enriching the experience for all of our visitors and guests. Please do what you can to support the efforts of our members who worked diligently to create the opportunity and help make the 2010 CSBE/CIGR Meeting a memorable and resounding success.

On behalf of council, we wish all well for the upcoming year and extend compliments of the season. We look forward to seeing you in Quebec City June 13th through 17th, 2010.

Un mot du Président

La fin d'une autre année est arrivée toujours dans la tourmente économique.

Ceux d'entre nous qui sont impliqués avec les élevages d'animaux Canadien sont particulièrement anxieux de tourner la page. Ces derniers temps ont été particulièrement difficiles pour l'industrie porcine. Il a été très décourageant de constater les effets dévastateurs des pertes cumulées au cours des 2 dernières années pour nos clients de l'Ouest Canadien qui ont travaillé si fort pour mettre sur pied leur projet au cours des deux dernières décennies. J'ai le sentiment qu'il y a un manque de compassion du public pour le sort de ce groupe de producteurs d'alimentation qui, en dépit de la forte demande mondiale en cours pour la viande de porc, ont souffert d'une «tempête parfaite» des impacts négatifs qui ont été en grande partie hors de leur contrôle direct. Ces facteurs comprennent la volatilité des coûts des aliments due en partie à la demande croissante des usages non traditionnels tels que les biocarburants, la perte des avantages à l'exportation dû à la parité de notre dollar avec celui américain, une barrière non tarifaire au commerce libre comme l'obligation d'indiquer le pays d'origine sur les étiquettes d'emballage destinées pour les États-Unis, l'embargo du commerce international techniquement injustifiable fondé sur la santé animale et les questions de sécurité sur les produits de viande comme le virus de la grippe A(H1N1) le plus récent, tout cela dans le contexte des défis récents du crédit et l'incertitude économique générale.

Pour ajouter l'insulte à l'injure de notre industrie porcine en difficulté, on recueille peu de soutien des citoyens depuis la présentation de l'industrie porcine comme le scélérat de l'environnement dans le paysage rural au cours des deux dernières décennies. La responsabilité première de perdre la guerre de l'opinion publique incombe à l'industrie qui a monté une contre-attaque inefficace à la propagande de l'environnement enveloppé de faits, apparemment scientifiques. Pendant les dix premières années, la sagesse de l'industrie était de garder un profil bas, s'en tenir à nos activités et les fanatiques passeront. Au moment où il a été accepté, la bataille pour les cœurs et les esprits du grand public a été perdu et la récupération hors d'atteinte. C'est avec quelques remords que je réfléchis sur les dernières années, pas certaine que nous, en tant que discipline professionnelle nous ayons fait tout en notre pouvoir afin de mieux façonner une industrie qui semblait avoir un énorme potentiel de croissance durable il y a 25 ans. Espérons que nous aurons un autre changement à venir.

J'ai récemment assisté en votre nom à une réunion du Conseil d'administration ASABE . Il se peut que vous soyez au courant, ASABE a passé au travers de certaines difficultés liées à la gestion exécutive de la Société. Sous la main ferme du président actuel, Ron Yoder, la stabilité opérationnelle prévaut et des progrès vers des solutions permanentes sont en cours.

Des plans sont dans la bonne voie pour réunion à la ville de Québec en 2010. Nous espérons une forte participation de nos membres lors de cette occasion spéciale afin de mettre en évidence les personnes qui poursuivent des intérêts communs des quatre coins du globe. Votre participation vous sera bénéfique et sera une expérience enrichissante

(Continued on page 3)

(Continued from page 2)

pour tous nos visiteurs et invités. S'il vous plaît, faites votre possible pour soutenir les efforts de nos membres qui ont travaillé diligemment à créer l'occasion et contribuer à rendre la rencontre 2010 de CSBE/CIGR un succès mémorable et retentissant.

Au nom du Conseil, nous vous souhaitons à tous une belle l'année à venir et de joyeuses fêtes. Nous sommes impatients de vous voir à Québec, du 13 au 17 juin, 2010.

Time to Nominate a 2010 Fellow of CSBE/SCGAB

There are a number of current members that are worthy recipients of this designation (see below). Please ask Grant Clark (Vice-President - Membership) for information on a membership list. Ranking the members from oldest to youngest will show the eligible members. Act Now!!

Our procedures manual states the following about Fellow:

The designation "Fellow" shall have honorary status, to which members of distinction may be elected, but for which they may not apply. A Fellow shall be a member of outstanding and extraordinary qualifications and experience in the field of agricultural, food, and/or biological engineering, and shall have met all the requirements for the grade of member. A Fellow shall have been a member of the Society for ten years, and have twenty years of active practice in the profession. Nomination as a Fellow may be made to the Fellows Committee by ten members in good standing.

**Deadline January 31, fast approaching!!! Email me if you have questions.
(john.feddes@ualberta.ca)**



XVIIth World Congress of CIGR

(including the CSBE/SCGAB 2010 AGM)

Sustainable Development through Engineering

June 13-17, 2010, Québec City, Canada

**Go to www.cigr2010.ca
for more information about other participating organizations
and complete Congress details.**

Digvir Jayas — Fellow of the Royal Society of Canada

On November 28, 2009, at a function at the National Gallery of Canada in Ottawa, Dr. Digvir Jayas, Vice-President (Research) and Distinguished Professor of the University of Manitoba was inducted as a Fellow of the Royal Society of Canada (RSC), the country's most prestigious association of scholars and scientists.



Dr. Jayas is a world renowned leader in grain storage research, striving to reduce losses in grain quality and quantity during storage in farm and commercial systems. His research results are published in 270 refereed papers and are the basis upon which storage recommendations are made in North America and around the world. In reducing spoilage of stored grain, Jayas' research has increased the availability of high-quality grains to feed the growing population of the world.

Dr. Jayas has held a Canada Research Chair in Stored-Grain Ecosystems, and he conducts research in the areas of physical properties of agricultural products; modified atmosphere storage of grains, oilseeds, potatoes, and meats; mathematical modeling of biological systems; and digital image processing for grading and processing operations in the Agri-Food industry.

Digvir S. Jayas was born in Mant, Mathura (India) and was educated at the G.B. Pant University of Agriculture and Technology, Pantnagar, India; University of Manitoba, Canada; and the University of Saskatchewan, Canada.

Founded in 1882, the society's primary objective is to promote learning and research in the arts and sciences. It consists of approximately 2,000 Fellows. These are men and women from across the country who are selected by their peers for outstanding contributions to the natural and social sciences and in the humanities.

STUDENT AWARDS 2009—ERRATUM!

(AT ANNUAL GENERAL MEETING)

O-o-o-p-s! In the last Perspectives Newsletter the first place winner and the third place winner were switched in the photos. So Lyndon and David have now been corrected as to who is who. Congratulations once more and sorry about the switch.

Lyndon Graff - First prize of \$300
(Presented by Secretary Townsend)



David Giard - Third prize of \$150
(Presented by President Lemay)



The prize money was donated by the **CSBE/SCGAB Foundation**.

A few words from your CSBE/SCGAB Society Secretary/Manager Un mot du directeur-général/secrétaire de la CSBE/SCGAB



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Are you paying your dues for 2010?

There are a few members who might want to take advantage of the member category of **Member Emeritus**. The definition of Member Emeritus in the Bylaws is:

Member Emeritus - A member aged 65 or more who has retired from professional life but who wishes to maintain professional contact with the CSBE/SCGAB. A member or ex-member in this member category may be invited to become a 'Member Emeritus' of CSBE/SCGAB. Members Emeritus will receive the CSBE/SCGAB Newsletter in electronic format.

To take advantage of this membership category simply pay only the Annual Membership Dues on the Dues Invoice at the appropriate amount indicated in the table below and add the note "ME" in the margin of the invoice.

| <u>Member category</u> | <u>Age range</u> | <u>2010 dues CA\$</u> |
|------------------------|------------------|-----------------------|
| Regular Member | 65-74 | 91 |
| Member Emeritus * | 65-74 | 61 |
| Member Emeritus * | 75+ | 12 |

JOB OPENING

SECRETARY/MANAGER OF THE CSBE/SCGAB

Secretary Townsend has given notice of his intention to resign as Society Secretary at the end of August 2010. This means that the Society is looking for a replacement to start in late August 2010. Townsend would stay on to mentor the new Secretary to the end of 2010. For more information as to the duties of the Secretary check the web site Operations Manual at www.bioeng.ca or get in touch with any Councillor. Personal contact with Secretary Townsend is also possible at the Society email address bioeng@bioeng.ca.

HELP FOR THE PROFESSIONAL PRACTICE EXAMS

Bob Loree's EXAMINATION PREPARATION SERVICES offers exam preparation services for engineering candidates for the PEng qualification. They are offering the members of the EIC member societies a \$20 discount on their service which is assistance in preparing for the PPE exam.

For additional information contact www.exps.org or www.eic-ici.ca.

COAST TO COAST/D'UN OCÉAN À L'AUTRE

British Columbia Regional News

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John Morgan is named Fellow of Engineers Canada

The Association of Professional Engineers and Geoscientists of BC (APEGBC) has recently presented **John Morgan**, P.Eng., a Bioresource and Agricultural member, with an **Engineers Canada Fellowship** to honour his noteworthy service to the engineering profession while volunteering with APEGBC for more than 10 years. **Congratulations John!**

In 2007, Engineers Canada created the Engineers Canada Fellowship to honour individuals who have given noteworthy service to the engineering profession in one of the following categories:

Engineers who have:

Assumed office as president of the Engineers Canada Board of Directors; or

Assumed office as chair of the Canadian Engineering Accreditation Board or the Canadian Engineering Qualifications Board; or

Assumed office as president of one of Engineers Canada's constituent members; or

Served the engineering profession in a volunteer capacity for at least 10 years. The total length of service can be a combination of service on Engineers Canada's boards and committees and/or service as a volunteer for an Engineers Canada constituent member; or

Served in a senior staff capacity with in Engineers Canada or a constituent member for a minimum of seven years.

Until this year the fellowship has been mostly limited to past presidents of the provincial engineering associations. CSBE/SCGAB members and executive are urged to nominate colleagues who have provided noteworthy support to the engineering profession. The relevant website is: http://www.engineerscanada.ca/e/pr_fellowship.cfm

IN MEMORIAM

To our friends and colleagues:

I am deeply saddened to inform you that our good friend and co-worker, Renard Campmans, lost his life this past weekend in a tragic accident. His loving family includes his wife Laurie and four children (aged six, four, two and two months).

Funeral service for Renard was held the week of November 23, 2009. He will be dearly missed.

K.B. Takeda
Trimark Engineering

Saskatchewan Regional News

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ABE Dept News (with contributions from L. Tabil)

Recent graduates

Congratulations to **Dr. Mohammad Izadifar** for completing his Ph.D. degree in the Department in May 2009. Dr. Izadifar's thesis is titled "Radio Frequency Enhanced Extraction of an Anti-Cancer Compound from Porous Media". Currently, Dr. Izadifar is taking another Ph.D. in Biomedical Engineering at the University of Saskatchewan.



Sabyasachi Mishra convocated from his Ph.D. program in October 2009. His thesis is titled "Microwave Assisted Photocatalytic Treatment of Naphthenic Acids in Water". He was co-supervised by Dr. Venkatesh Meda and Dr. Ajay Dalai (Chemical Engineering). Presently, he is a post-doctoral fellow of Dr. Digvir Jayas at the Department of Biosystems Engineering, University of Manitoba, working on soft X-ray imaging for wheat quality control.

Dyan L. Pratt convocated from her M.Sc. program with her thesis titled "Environmental Impact of Livestock Mortalities Burial". Dyan is proceeding with her Ph.D. program in the department under the supervision of Dr. Terry Fonstad.

Dr. Sabyasachi Mishra

Awards / Scholarships

The design project of **Holly Annand** and **Ambrely Faye** titled "Improving the Efficiency of Separating Methyl Ester and Glycerin for Western Canadian Biodiesel Production" won the CSBE/SCGAB Undergraduate Design Award. The project advisor was **Dr. Terry Fonstad**. **Brendan Christensen** won the Undergraduate Paper Competition with the project titled "The Re-Stabilization of Damaged Riparian Zones for Control of Scour". Project advisor was **Prof. Warren Helgason**.



Holly Annand receiving the \$100 cheque from CSBE/SCGAB



Mark Shaw receiving the award from Dr. Lope Tabil.

Mark Shaw received the 2009 Graduate Thesis Award for his M.Sc. thesis titled "Feedstock and Process Variables Influencing Biomass Densification". His thesis advisor was **Dr. Lope Tabil** who received on his behalf the award at the 2009 Annual Awards Ceremony during the CSBE/SCGAB Annual Conference in PEI.

(Continued on page 8)

(Continued from page 7)

Department visitors

Dr. Gyanendra Singh, Vice Chancellor of Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya University (MGCGV), which was founded in 1991 in Chitrakoot, Madhya Pradesh, India, was hosted by the Department between June 30 to July 24, 2009. The visit was aimed at furthering the collaboration between the two universities. On July 23, 2009, Dr. Brett Fairbairn, Provost and Vice-President at the University of Saskatchewan, signed a memorandum of understanding with Dr. Gyanendra Singh. The partnership will be an excellent opportunity for Canadian faculty and students to work in rural areas in collaboration with a well-established Indian institution. The Vice-Chancellor's visit and the memorandum signing are both results of a 2008 visit to MGCGV by **Dr. R. L. Kushwaha**, professor emeritus at the Department of Agricultural and Bioresource Engineering.



Dr. Singh talks to Dr. Satya Panigrahi about possible uses of flax fiber.

Faculty update

Profs. Terry Fonstad and **Oon-Doo Baik** returned from their sabbatical leave on July 1, 2009. Prof. Fonstad is now the Undergraduate Advisor of the Department and Prof. Baik is now Graduate Chair. **Prof. Huiqing Guo** started on her 6-month sabbatical leave on July 1, 2009. **Prof. Venkatesh Meda** is on a 12-month sabbatical leave (July 1, 2009 to June 30, 2010). He is based in India, primarily at Tamil Nadu Agricultural University and Karunya University. **Prof. Trevor Crowe** also went on a 12-month administrative leave.

Conferences

IEA Bioenergy Conference was held on August 23-26, 2009 at the Faculty of Forestry, University of British Columbia, Vancouver. Two faculty members: **L. Tabil** and **S. Panigrahi**, along with 4 graduate students, 1 research assistant and 1 visiting scholar attended the conference. Two lectures and 4 poster presentations were made by the ABE delegation.

The ABE Department was well represented in this year's ASABE/CSBE North Central Inter-Sectional Conference held at the South Dakota State University at Brookings, South Dakota on September 17-19, 2009. A total of 11 fac-

(Continued on page 9)

(Continued from page 8)

ulty, staff, and students from the Department made 22 presentations during the conference!

ABE Dept. alumna appointed to SDSU faculty

(with excerpts from SDSU media release)

South Dakota State University announced the appointment of Dr. **Erin Cortus** as Assistant Professor and Environmental Quality Engineer in the Department of Agricultural & Biosystems Engineering effective June 8, 2009. Dr. Cortus obtained her B.E. and Ph.D. degrees from the Department of Agricultural and Bioresources Engineering at University of Saskatchewan. During her studies at UofS, she received the Oliver Symes award for earning the top honors from among the graduating batch from the Department in 2002, as well as two NSERC Postgraduate Scholarships during her graduate program. Her dissertation research dealt with modelling ammonia emissions, with experimental work conducted at the Prairie Swine Centre.

Prior to joining SDSU, Dr. Cortus was at Purdue University since November 2006 working on the largest agricultural air quality study ever conducted which was funded by commodity organizations through the U.S. Environmental Protection Agency.

Her work in South Dakota will focus on water and air quality issues. She will seek to help livestock and poultry producers find economical solutions that meet increasing governmental regulations. Dr. Cortus also will teach an undergraduate agricultural manure management class, and will direct the statewide Environmental Training for Concentrated Animal Feeding Operations program.

Van Kelley, head of SDSU's Agricultural & Biosystems Engineering department, said SDSU is fortunate to have been able to recruit one of the few engineers at the Ph.D. level who has expertise in measuring, modeling, and mitigating emissions from livestock production facilities. For more information, visit <http://abe.sdstate.edu>.

Field demonstration of odorless manure composting technology

(with excerpts from UofS College of Engineering media advisory and contributions from Holly Annand)

The University of Saskatchewan and the Prairie Agricultural Machinery Institute (PAMI) held a demonstration of a new in-vessel (bag) feedlot manure composting process at a university research farm land just outside the main campus last June 12, 2009. This process is being tested as part of PAMI's high-solids content anaerobic digester project, which focuses on determining the potential of producing sustainable bio-energy from animal and household wastes while eliminating compost odors. The bag composting system is being evaluated with the intention of ultimately producing biogas from feedlot manure in its produced form and to reduce the amount of water typically required for anaerobic digestion.

During the demonstration, a large bag (similar to a silage bag) which served as the composting vessel was filled with about 70 tonnes of feedlot manure. Active aeration of the compost bag was supplied by an aeration hose and an electric blower. Holly Annand, a masters student at U of S, recorded temperature data during the subsequent composting process to ensure process control. As part of her research, she will also be evaluating different waste streams from ethanol-feedlot systems to determine their suitability for anaerobic digestion and biogas production. The results of her research will help PAMI improve biogas production from a pilot-scale anaerobic digestion facility currently being constructed at the Western Beef Development Centre and hopefully broaden the spectrum of waste materials that can produce biogas. The overall project is funded by Western Economic Diversification Canada, Saskatchewan Ministry of Agriculture, Natural Resources Canada, PAMI and the UofS.



(Continued on page 10)

(Continued from page 9)



Filling of the composting bag with feedlot manure and monitoring of the temperature inside.

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Manitoba Regional News

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Once again the CSBE members of the Manitoba Region have been busy. Outlined below is a brief summary of some of the activities and accomplishments of the region.

Ron Britton gave the keynote address entitled "Does having a license make you a professional?" at the Manitoba Infrastructure and Transportation Engineers in Training Retreat. This Retreat is part of a formal program to assist EITs as they develop their careers and work toward meeting requirements for their Professional Engineer Designation.

The scientific article "Nanotechnology for Food and Bioprocessing Industries" authored by **Suresh Neethirajan** and **Digvir Jayas**, Biosystems Engineering, was presented as a invited keynote address by Digvir Jayas, at the 5th CIGR International Symposium on Food Processing, Monitoring Technology in Bioprocesses and Food Quality Management held at Potsdam, Germany on August 31, 2009.

Suresh Neethirajan, P.Eng., recently graduated with his PhD from the Biosystems Engineering Department, with his thesis work at the Canadian Wheat Board Centre for Grain Storage Research under the guidance of Dr. **Digvir Jayas**. His thesis research culminated in an US patent application, [US Provisional Patent US2009-61/238,91] was focused on developing nanoparticle based sensor system to monitor the stored food grain quality. Suresh's work in this area is helping to ensure that the grain storage research conducted at the Canadian Wheat Board Center for Grain Storage Research continues to remain on the cutting edge.

There were 3 undergraduates who convocated in October 2009: **Wen Li**, **Jenelle Salanguit**, and **Yan Zhuang**.

The following graduate students convocated in October 2009: **Marcia Friesen** (Ph.D.), **Dagmara Head** (Ph.D.), **Suresh Neethirajan** (Ph.D.), **Chandra Singh** (Ph.D.), **Matthew Chase** (M.Sc.).

Undergraduate student, **Warren Blunt**, placed 2nd in the Applied Sciences category of the University of Manitoba's Fourth Annual Student Poster Competition. The poster was prepared describing summer work completed last summer looking at third generation biofuels using clostridium thermocellum with local hemp feedstock.

The University of Manitoba will once again have an entry in the ASABE 1/4 Scale Tractor Competition. A group of 14 undergraduate students from Biosystems Engineering, Mechanical Engineering, and Agriculture have begun the work of designing a tractor for next spring's competition.

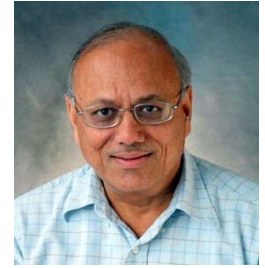
Congratulations to everyone and I hope that the good news keeps coming in from the region.

Ontario Regional News

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I. Students Activities

Go ENG Girl -- Educating Girls About Engineering (October 09, 2009 - Campus Bulletin)

The University of Guelph has hosted **Go ENG Girl** on Oct. 17, a free one-day event for girls in grades 7 to 10 and their parents to learn about programs and careers in engineering, where students, faculty and staff talked to participants. U of G is one of 15 Ontario universities hosting Go ENG Girl events. In total, about 1,000 girls participated, along with some 350 volunteers and 500 parents and teachers. Go ENG Girl is a fun opportunity for girls to meet others who share their interests and to find out first-hand how these amazing careers are making a difference to our environment and quality of life.

Girls met women who are studying or working in engineering and hearing about their careers and experiences. A panel discussion for parents focused on how they can support their daughters on the road to a career in engineering. Hands-on activities for the girls helped them develop their skills in engineering design. There were also interactive exhibits by Engineers Without Borders, the Ontario Society of Professional Engineers and Women in Science and Engineering. The goal is to enhance young women's interest in engineering and encourage enrolment in engineering programs at the post-secondary level.

Grad Student Engineers Receive Scholarships

Two graduate engineering students have received scholarships from Engineering Canada. The awards recognize excellence in the Canadian engineering profession and support advanced studies and research. A Manulife Financial Scholarship was awarded to **Fraser Kent**, Environmental Engineering. **Jason McCullough** (Environmental Engineering) received the TD Insurance Meloche Monnex Leopold Nadeau Scholarship.

II. Research

Biomaterials for car manufacturing

U of G is involved in a multi-university project — Auto21— that involves the creation of “green” car parts from biofibres and bioplastics. In this effort, researchers are making environmentally-friendly car bumpers and running boards by substituting renewable and recyclable engineered composites for petroleum-based materials. The prototypes are being engineered in U of G's Bioproducts Discovery and Development Centre, which is headed by engineering professor **Amar Mohanty**, who is also involved in the BioCar Initiative and holds the Premier's Research Chair in Biomaterials and Transportation. In the Bioproducts Discovery and Development Centre, researchers are engineering new industrial crops and biomass that can be turned into green composite materials and exploring their many uses, from car parts and building materials to sustainable packaging. They are also studying innovative ways to develop biofuels from biomass.

Ontario Professional Engineers honour Water Resources Engineering professor (Nov. 06, 2009 - Campus Bulletin)

University of Guelph engineering professor **Ed McBean** received the Research and Development Award from Professional Engineers Ontario at their annual awards gala for his work in bringing safer water systems to more than 60 countries. McBean holds the Canada Research Chair in Water Supply Security. His research involves assessing water-supply systems and helping decision-makers find ways to make those systems safer in both the developed and developing worlds. His work has been instrumental in such areas as treating leachates from solid wastes and mitigating contaminated groundwater, helping to improve the safety of the water supply and the environment. Appointment

Quebec Regional News / Nouvelles régionales du Québec

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Journée Carrière à l'Université Laval

Le **21 janvier 2010**, se déroulera à l'Université Laval (département des sols et de génie agroalimentaire) une journée carrière au cours de laquelle il y aura une série de conférences données entre autres par des gens du milieu de la pratique privée, de la recherche en institut et universitaire. Un représentant de la société, Dr. **Stéphane P. Lemay** présentera également le rôle et l'importance de la société canadienne (CSBE). Cette journée est organisée en collaboration avec l'Université Laval, l'AIAQ et la CSBE. Le programme complet et le local seront disponibles dans les prochaines semaines. Pour plus d'information, vous pouvez contacter Sébastien Fournel. (sebastien.fournel.1@ulaval.ca).

Huit étudiants honorés par la fondation CLAAS

La fondation CLASS a honoré huit jeunes étudiants en génie agricole. Les bourses et bonus ont été décernés au Technoparc du siège social de CLASS à Harsewinke (Allemagne). Les gagnants ont eu la chance de présenter leurs travaux au cours d'une courte présentation. Il est important de souligner que la fondation CLASS célèbre cette année son dixième anniversaire.

Les 4 bourses ont été décernées à Joachim Pfortner (University of Stuttgart), Maximilian Birle (Technical University Munich), Andreas Sillies (University of Hanover / TU Braunschweig) and Frank Hausdörfer (TU Braunschweig). Les quatre prix bonus de 1 000 Euro chacun ont été décernés à Stephanie Müller (University of Kassel), **Nicolas Dubuc** (Mc Gill University, Quebec / Canada) pour son projet d'ingénierie du premier cycle, Markus Hubel (FH Aalen) and Irina Goncharova (Kuban University, Krasnodar / Russia).



(Continued on page 14)

(Continued from page 13)

CLAAS Foundation awards four scholarships and four bonus prizes

The CLAAS Foundation awarded eight promising young students in the field of agricultural engineering with scholarships and bonus prizes at the Technoparc of the CLAAS headquarters in Harsewinkel (Germany) where the award ceremony was held. The prize winners illustrated their research projects by way of short presentations. This year, the CLAAS Foundation also celebrated its 10th birthday.

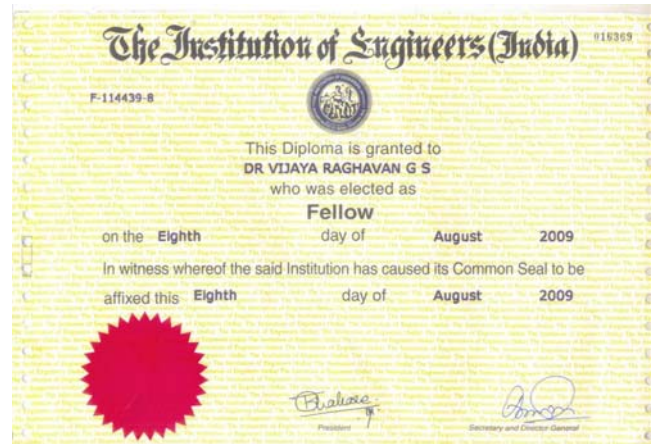
The four scholarship prize went to Joachim Pförtner (University of Stuttgart), Maximilian Birle (Technical University Munich), Andreas Sillies (University of Hanover / TU Braunschweig) and Frank Hausdörfer (TU Braunschweig). In addition to these scholarships, four bonus prizes to the value of € 1,000 each were also awarded. Stephanie Müller (University of Kassel), **Nicolas Dubuc** (Mc Gill University, Quebec / Canada) was rewarded for his Bachelor thesis tackling the subject of ploughing, Markus Hubel (FH Aalen) and Irina Goncharova (Kuban University, Krasnodar / Russia).

Félicitations

Le **professeur Rghavan** a été récemment élu à titre de Fellow de l'institut Indien des ingénieurs

Congratulations

Professor Raghavan was elected recently to the Fellow status in the Indian Institute of Engineers.



Félicitations à plusieurs étudiants de McGill (Bioresource Eng.)

ASABE 2008

Compétition de conception AGCO –Premier prix
Penelope Thériault et Thomas Fortin-Chevalier

ASABE 2009

Compétition de conception environnementale – Premier prix
Marie Manchester, Amy McClintock and Jenna Senecal-Smith
Ces mêmes étudiants ont également gagné le prix de la CSBE/SCGAB pour leur projet.

European Claus-Stifung Award 2009

Nicolas Dubuc pour son projet de Design

NABEC 2009

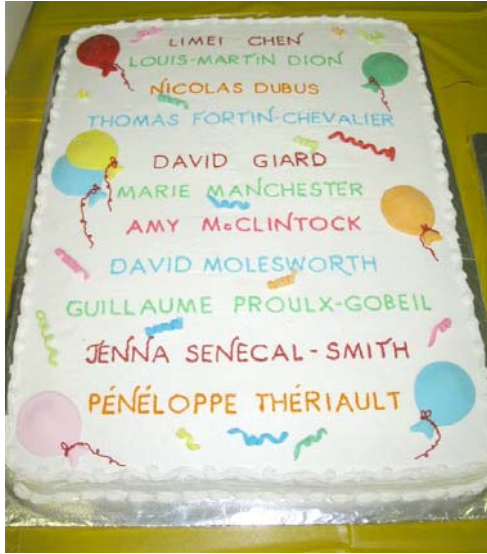
Projet de conception – Premier prix
Louis-Martin Dion, David-Molesworth and Guillaume Proulx Gobeile

CSBE/SCGAB 2009

Prix de la meilleure thèse - gagné par Limei Chen

(Continued on page 15)

(Continued from page 14)



Congratulations to many McGill students for their achievements

ASABE 2008

AGCO Design Competition-1st Prize Winners

Penelope Thériault and Thomas Fortin-Chevalier

ASABE 2009

Environmental Design Competition-1st Prize Winners

Marie Manchester, Amy McClintock and Jenna Senecal-Smith

They also won The Canadian Society of Bioengineering (CSBE/SCGAB) Award for their project.

European Claus-Stifung Award 2009-

Nicolas Dubuc for his Design Project

NABEC 2009

Design Project Award-1st Prize Winners

Louis-Martin Dion, David-Molesworth and Guillaume Proulx Gobeile

CSBE/SCGAB 2009

Thesis Award-won by **Limei Chen**

News Release

Ottawa, ON, Canada - September 23, 2009 - Miltons IP (www.miltonsip.com), an Ottawa-based intellectual property law firm, today announced the release of **Canadian Intellectual Property Law For Dummies**, co-authored by company founder, Neil Milton. Canadian Intellectual Property Law For Dummies provides easily understood IP information in effort to bridge innovation gap. This new resource puts basic information and useful tips in the hands of Canadian businesspeople, innovators

Data released last year indicates that Canada is faring poorly at commercializing intellectual property, when compared with its industrialized counterparts around the world. A report by the Conference Board of Canada on Innovation released in October 2008, ranked Canada 13th of 17 countries in triadic patents per million population, defined as "those submitted for the same invention to patent offices in the U.S., E.U., and Japan."

Miltons IP joined together with Wiley, the publisher of the popular For Dummies reference book series to create a resource for Canadians that outlines core intellectual property rights, how to make money from IP (whether your own or others), and a series of checklists.

The book contains a primer on the various types of intellectual property assets, from patents and trademarks, to copyrights and industrial designs. Each of the introductory chapters deals with one type of protection, provides definitions, pros and cons and instructs how to protect one's IP rights. Later chapters discuss how to profit from IP and how to enforce one's IP rights. A chapter on deriving income from someone else's IP through licensing follows later in the book, with the final chapter dispelling some common misconceptions about IP.

Canadian Intellectual Property Law For Dummies is not available in stores. Rather, it is available free of charge through www.canadian-ip.com. Site visitors enter their mailing address on the site and can expect to receive their copy by mail within 10 business days. Review copies are available upon request to accredited media.

About the author

Neil Milton is the founder of Miltons IP, a firm that covers all aspects of Canadian intellectual property law, including patents, industrial designs, trademarks, copyrights, litigation and IP commercialization and transactions. He practices in the areas of IP transactions and strategies.

Canadian Intellectual Property Law For Dummies is his first book.

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Twitter: @lindaforrest

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Upcoming Workshop

The Food and Agriculture Organization of the United Nations (FAO), the UN-Water Decade Programme on Capacity Development (UNW-DPC), and the University of the Free State (UFS) are pleased to announce the workshop on

Capacity Development for Farm Management Strategies to
Improve Crop-Water Productivity using AquaCrop

Bloemfontein (South Africa), 1-5 March 2010

Visit AquaCrop website (<http://www.fao.org/nr/water/aquacrop.html>) to download the Workshop leaflet and the Application form. **Deadline for application is December, 31 2009**

Selected participants from the following countries will receive financial coverage for attending the workshop: - **Angola, Botswana, Cameroon, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia, and Zimbabwe.**

Please, do not hesitate to contact us for assistance.

The AquaCrop Team

Land and Water Division

Food and Agriculture Organization (FAO)

Visit our website: <http://www.fao.org/nr/water/aquacrop.html>

Join our forum: http://km.fao.org/aquacrop_forum/

Write us: aquacrop@fao.org

INNOV8 CONFERENCE 2010 01 18-20

Theme - The Canadian Agri-Food Sector must innovate to compete

the Canadian Consulting Agrologists Association (CCAA)
is hosting

the North American Consulting School (NACS)

Deerfoot Inn & Casino,
1000, 11500 – 35 Street SE,
Calgary Alberta.

CONFERENCE AGENDA - Attend the 8th session of NACS for ideas that work.

Monday January 18, 2010

Registration 5:00 – 6:00 pm

Reception and guest speaker, 6:00 – 9:00 pm

Tuesday January 19, 2010

Registration 7:30 – 8:30 am

Session 8:30 – 5:00 pm

Reception 5:00 – 6:00 pm

Banquet and guest speaker 6:00- 9:00 pm

Wednesday January 20, 2010

Registration 7:30 – 8:30 am

Session 8:30 – 4:00 pm

Phone: 403-686-8407

Email: info@ccaa.bz

Visit our website at www.ccaa.bz



You are cordially invited to attend the

C.J. Mackenzie
Gala of Engineering Excellence

UNIVERSITY OF SASKATCHEWAN

Thursday, January 14th, 2010
TCU Place, Saskatoon, SK

The *C. J. Mackenzie Gala of Engineering Excellence* is the perfect opportunity for you to join the college in celebrating the achievements of our most accomplished colleagues and students.

A highlight of the evening includes the C.J. Mackenzie Lecture delivered by alumnus **Dr. David Manz** (BE '72). David is an engineer, agrologist, businessman, entrepreneur, inventor, educator, humanitarian, husband and father. Currently he is a consultant for both public and private water and wastewater treatment companies around the globe. A former professor at various colleges and universities, David is the developer of the BioSand Water Filter (BSF), for which he received an Alberta Emerald Foundation award (2009). BSF technology provides safe drinking water to disadvantaged communities worldwide.

David's lecture, **Safe Water for the Developing World: The Engineering Challenge**, focuses on how the provision of adequate, safe and affordable water to the developing world is the responsibility of the engineering community. The challenge to satisfy this mandate is growing as a result of many factors including an increasing population, pollution, escalating energy costs, and the unpredictable effects of climate change. The health and well being of the developing world, from remote individual households to cities with tens of millions people, depends on the 'ingenuity' of engineers who understand and are willing to rise to the challenge.

In 1976, Dr. Mel Hosain and Dr. Joe Chudobiak started the College of Engineering's annual Distinguished Graduate Lecture Series to honour our alumni who have achieved positions of eminence in the profession. On its 10th anniversary, the event was renamed after Chalmers Jack Mackenzie, the first Dean of the College of Engineering. In 1984 the College adopted the Mackenzie dress tartan tie as their own, in honour of C.J. Mackenzie who died that year.

To purchase tickets or book your table of eight, please contact **Pat Hunchak 1-306-966-5304** or email pat.hunchak@usask.ca by January 8, 2010.

NOTICES TO MEMBERS

From time to time various agencies request that the CSBE/SCGAB office supply the list of members for the distribution of certain products. Your Secretary, James Townsend, is reluctant to do so since we all have too much spam as it is. My approach will be to list the agencies, and their products, in each Perspectives Newsletter so that members can make personal contact with the agencies if they so wish.

Educational Programs Innovations Center (EPIC)

This web site, available at www.epic-edu.com, offers information on seminars/short courses, on-site training, international educated engineers, water and wastewater courses, management online courses, French courses, mailing lists, and a search engine for other topics. Check it out!

Looking for a job or offering a job?

Most of us are aware of the **employment opportunities** that are featured on the web site www.bioeng.ca under students or members (left hand blue menu). Through EIC we have access to additional services. Check it out at www.EngineeringCareers.ca.

Are you interested in Agriculture? Urban Agriculture News that is!

The latest issue of Urban Agriculture News is available at: <http://www.urbanagriculture-news.com/current.php>

In addition, there is a live feed of urban agriculture news at: <http://www.urbanagriculture-news.com/>

Your access to the news service, the newsletter and archives is 100% free. You may access the archive for free at: <http://www.urbanagriculture-news.com/archive.php>

It is hoped that you continue to find the Urban Agriculture News useful in your work, and that you will refer us to your colleagues engaged in the urban agriculture. The website is : <http://www.urbanagriculture-news.com>. New issues of Urban Agriculture News are available monthly .

Coming Events

- **2010**
- **Agricultural Equipment Technology Conference.** 2010 01 10-13, Orlando, FL. More information at mtgs@asabe.org.
- **The XVII CIGR World Congress 2010 (and CSBE/SCGAB AGM),** 2010 06 13-18, Quebec City , QC Canada. More information at www.bioeng.ca/Events/CIGR/index.htm.
- **9th International Drainage Symposium,** 2010 06 13-16, Quebec City, QC. More information at mtgs@asabe.org.
- **8th World Congress on Computers in Agriculture.** 2010 06 13-16, Quebec City, QC Canada. More information at www.cigr2010.ca.
- **ASABE International Meeting.** 2010 06 20-23. Pittsburgh, PA. More information at mtgs@asabe.org.
- **International Conference on Agricultural Engineering—AgEng2010 CF.** 2010 09 06-08, Clermont-Ferrand, France. More information at www.ageng2010.org/

- **2011**
- **11th International Congress on Mechanization and Energy in Agriculture.** 2011 09 21-23, Istanbul, Turkey. More information at mtgs@asabe.org.
- **CIOSTA (CIGR V Conference) - Efficient and safe product processes in sustainable agriculture and forestry.** 2011 06 29 to 2011 07 01, Vienna, Austria. More information at www.cigr.org.

- **2012**
- **3rd CIGR International Conference.** 2012 07 08-12, Valencia, Spain. More information at the web page www.ivia.es/AgEng2012/CIGR/Valencia.pdf.

- **2014**
- **The XVIII CIGR World Congress 2014,** 2014 09 ??, The Beijing International Convention Center, Beijing China. More information in CIGR Newsletter No. 82, page 6 (see below for web site).

CIGR Newsletter (BULLETIN DE LA CIGR)

CIGR publishes a quarterly Newsletter in English and French. It is also available in Arabic, Chinese and Russian translations. The Russian translations of CIGR NL have been available from CIGR NL 75.

A quarterly publication that is available to all members, the CIGR Newsletter contains information on member associations, members, sections, working groups, **future events such as congresses, seminars, symposia, workshops, etc.** Furthermore it highlights new publications, lists publications that are available from CIGR and publicizes vacant positions. View the latest newsletters at: www.cigr.org/CIGRNewsletters.htm

AIC Newsletter

Go to www.aic.ca to access AIC news and information.

EIC Information

Access EIC information at www.eic-ici.ca

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|---|--|
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Volume 32, No. 1 2009
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