Humber College students make contact with the International Space Station
Who’s taking care of the mortgage while you’re taking care of yourself?

Getting sick wasn’t something Bob and Joan considered in their financial plans. Then Joan was diagnosed with cancer.

Bob and Joan discovered the hard way that treating and coping with illness can mean significant unexpected costs the typical family’s finances may never recover from. It would be a different story if they had included Critical Illness insurance in their financial plans.

Critical Illness insurance is designed to help pay these costs so you don’t need to dig into your retirement savings and investments – or worse, go into debt – to cover expenses. It provides cash if you’re diagnosed with one of up to 18 covered conditions and you survive the waiting period. You can use this cash to pay your rent or mortgage, cover your regular household bills or pay for additional medical costs not covered by private or government health plans. The choice is yours.

**Significant impact on savings**

Joan was 42 when she was diagnosed with cancer. While in active treatment, Joan was on long-term disability from her $65,000-a-year job. Bob cut back his hours to help out more at home. Since they still had a $96,200 mortgage, this made their monthly budget tight.

Ultimately, the unexpected expenses associated with Joan’s illness forced them to renegotiate their mortgage.

Bob and Joan had planned to retire when Joan turned 62, after their youngest child completed her post-secondary education. Without Critical Illness insurance, that goal became unrealistic. Here’s their revised financial picture.

<table>
<thead>
<tr>
<th>Bob &amp; Joan’s Annual Lost Income and Recovery Expenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Difference between Joan’s regular income and income provided by group disability insurance</td>
</tr>
<tr>
<td>Net Income (before her illness): $65,000 less tax* = $42,250</td>
</tr>
<tr>
<td>Taxable Disability Income: $65,000 X .6 = $39,000 less tax* = $25,350</td>
</tr>
<tr>
<td>(Lost income during her disability elimination period is not included in this estimate)</td>
</tr>
<tr>
<td>Bob’s lost yearly income (from cutting back his hours)</td>
</tr>
<tr>
<td>Travel to and from treatment (gas and parking costs)</td>
</tr>
<tr>
<td>Medical equipment (special bed)</td>
</tr>
<tr>
<td>Cost of drugs and supplements not covered by Bob and Joan’s health plans</td>
</tr>
<tr>
<td>Additional help with household chores</td>
</tr>
<tr>
<td>Total additional expenses</td>
</tr>
</tbody>
</table>

* Assumed tax rate of 35%.

**Monthly Expense**

| Mortgage – increased from $96,200 to $150,000 @ 6.25% (25-year amortization) | $1,000 |
| Car payments and gas | $700 |
| Regular household bills (utilities, taxes, groceries, clothing) | $3,000 |
| RRSP contributions | $1,000 |
| RESP contributions | $500 |
| Total | $6,200 |

Bob and Joan’s monthly net income is $6,500, leaving only $300 for expenses such as car and home repairs, gifts, entertainment and all other family expenses. They know they’ll need to reduce their RRSP contributions most months to make ends meet.

A Critical Illness benefit of $100,000 would have given them the cash to pay all recovery costs AND reduce their mortgage to $50,000, freeing up extra money to use as they wished.

No one knows if they will ever need Critical Illness insurance. But if you have it, you’ll have peace of mind knowing it will let you focus on what really matters … getting better.

---

Engineers Canada-sponsored Critical Illness Insurance offers you 10% savings on coverage of $125,000 or more, offering you even more value for your money. To find out more and apply online, visit:

[www.manulife.com/OT](http://www.manulife.com/OT)

Or speak to a Customer Service Representative toll-free at 1 877 598-2273 Monday through Friday from 8 a.m. to 8 p.m. ET.

Manulife Financial

The Manufacturers Life Insurance Company
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Recognizing new and certified technicians and technologists

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Events and news from association regions and chapters
I am honoured to be addressing you for the first time as President of our great association. I would like to share my vision as I work with OACETT Council and staff over the next two years.

Certification is our core business. This focus has ensured that our sizeable, skilled and professional membership is our greatest strength. Cooperation and collaboration within our association and commitment to our six Strategic Priorities will ensure OACETT continues to represent THE technology professionals in Ontario.

Cooperation is the act of working together to produce an effect for mutual benefit. We need to continue cooperating by:
• Advancing member status as technology professionals.
• Supporting OACETT’s strategic objectives to grow our association.
• Creating real value added programs for our members.

Collaboration is the act of working together willingly in an intellectual endeavour. We shall continue collaborating on:
• Refining the OACETT model.
• Working to assist members through to certification and laddering up.
• Strengthening our relationship with the members of CCTT – our national federation.

Commitment is the practice of jointly entrusting by agreement or understanding. We must continue to commit to:
• Promote and participate in OACETT’s Strategic Priorities.
• Advocate to government the value of OACETT certification.
• Above all else — serve the interest of public safety.

OACETT Council has identified six Strategic Priorities on which to focus our efforts, they are: Compliance and Standards; Corporate and Employer Outreach; E-Association; Government Affairs; Professional Development; and Succession Planning and Member Engagement.

With a combined team approach we will have a model in place to:
• Expand government engagement initiatives to ensure certification is included in legislation and regulations.
• Build on corporate and employer outreach and promote the value of hiring Certified Engineering and Applied Science Technicians and Technologists.
• Improve chapters’ roles in succession planning, promoting certification and member benefits.
• Continue volunteer advancement and election participation.
• Review policies and procedures to ensure a modern governance model and practices.

We are fortunate to have over 350 volunteers and 27 staff advancing the status of our members and promoting the value of certification to industry and the public alike. As OACETT members, I encourage you to take an active role in contributing to the success of your association by participating in chapter activities, volunteering on committees and task groups, acting as a mentor to new members or contributing articles to The Ontario Technologist.

With the combined effort of your Council, chapters and staff I am certain that our association will continue to provide value of membership, contribute to the strength of the economy and serve the interest of public safety in Ontario. Feel free to contact me at president@oacett.org.
Calendar of events

**August 16 - 20**
2009 Standards Engineering Society Annual Conference
Toronto, ON
www.ses-standards.org/displayconvention.cfm

**August 23 - 27**
8th World Congress of Chemical Engineering
Montréal, ON
www.wcce8.org/index.html

**August 29 - 31**
International Conferences on Computational Science and Engineering
Vancouver, BC
http://cse.stfx.ca/~cse09/

**September 10 - 12**
National Conference and Policy Forum on Wastewater Management
Crowne Plaza Hotel-Fallsview, Niagara Falls, ON
www.cwwa.ca/wastewaterconference_e.asp

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**New representation, renewed vision**

At OACETT’s Annual General Meeting in May a new Council was sworn in, led by President David Saunders, C.E.T. The 21 men and women who have been elected will be representing your interests for the next two years. I encourage you to take a look at the profiles of your new and returning Council members on page 14. Also at the AGM, delegates heard about the incredible accomplishments of a group of Humber College students who, after two years of hard work and determination, made contact with the International Space Station. In this issue of *The Ontario Technologist*, their professor takes us through the process of how this goal was reached.

It is important for accomplishments such as these to be recognized. OACETT honoured the students and their professor back in February with certificates of recognition. On October 2 we will honour 29 engineering and applied science professionals who have excelled in their field at our 2009 Honours and Awards Gala. It is a night when employers, academia and industry come together to celebrate the best and brightest in the field. See page 23 to find out more about this great event.

Thanks to everyone who filled out the member survey that was sent out in the spring. What we found out from your responses will help us as we move forward to expand or improve member offerings. One thing that became clear is that you like to stay on top of the latest trends and technologies. I know that many of our members are experts in their field and I invite you to submit articles that will help your fellow members keep up to date on what is happening in the industry.

You can contact me at mthurlow@oacett.org or 416-621-9621, ext. 228 with your article ideas or input on what you’d like to see in the magazine.

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**Building a strong succession plan**

Breakfast seminar presented by OACETT and CEO

Gain a better understanding on the background on succession planning and why owners avoid making one. Learn how to prepare a succession plan, how to transfer the business to a third party or the next generation and see examples of actual succession planning cases.

Who should attend: Founders or owners of small and medium sized businesses, in many cases family run engineering and engineering technology businesses.

Learning Outcome: Where to start in the process of business succession planning and transferring the business to the next generation?

Seminar leader: David Malach, B.A., LL.B., is a partner in the Aird & Berlis Tax Group, a former managing partner of the firm and a current member of its Executive Committee. His practice covers all areas of tax, including corporate reorganizations, will and estate planning and tax litigation. Over his more than 25 years of experience, David has written and lectured extensively on wealth management and succession planning.

Date and Location: Wednesday, October 7, 2009, 8 a.m. – 10 a.m. (7:30 breakfast), Radisson Suite Hotel Toronto Airport, Radisson Room, 640 Dixon Road Toronto, ON.


Advanced registration and payment is required. Please contact Alla Bondarenko at abondarenko@oacett.org to register. Space is limited to 20 participants.
Celebrating 25, 40 and 50 years of membership!

This listing represents those who have reached their milestone between May 1, 2009 and June 25, 2009.

25-year members
Dominic Alberga, C.E.T.
Peter Alessi, C.E.T.
Kenneth Bacchus, C.E.T.
Roger Beauleiu, C.E.T.
Ian Bergeron, C.E.T.
David Best, C.E.T.
Jon-Paul Blais, C.E.T.
Karl Broll, C.E.T.
Glen Cameron, C.E.T.
Linas Cepas, C.E.T.
Mauro Cesa, C.E.T.
Roger Chevrier, C.E.T.
Larry Choo-Kang, C.E.T.
Leonard Chowns, C.E.T.
Frank Chu, C.E.T.
John Clark, C.E.T.
Terence Cutts, C.E.T.
Charles Damecour, C.E.T.
Anthony Donatelli
Michael Elliott, C.E.T.
R. A. Ewen, C.Tech.
Robert Ferguson, C.E.T.
Darrell Flieler, C.E.T.
Donald Garlough, C.E.T.
Domenic Guida, C.E.T.
George Harron, C.E.T.
Mark Hunter, C.E.T.
Robert Hutton, C.E.T.
Douglas Jackson, C.E.T.
Wendi Jakob, C.E.T.
Paul Kacor, C.E.T.
Karen Kirk, C.E.T.
Nick Klinduch, C.E.T.
Harkrishan Kochar, C.E.T.
Tuan Lai, C.E.T.
Ray Leeves, C.E.T.
Daniel Leung, C.E.T.
William Lewis, C.E.T.
Richard Males, C.E.T.
Claude Martel, C.E.T.
Mark Mayhew, C.E.T.
Ronald McHugh
Andrew McLaughlin, C.E.T.
Angelo Minuti, C.E.T.
Geoffrey Mitchinson, C.E.T.
Robert Montminy, C.E.T.
Gerald Nelson, C.E.T.
James O’Rourke, C.E.T.
Michael Osborne, C.E.T.
Brian Painter
Bhupendra Patel, C.E.T.
Joseph Pellegrini, C.E.T.
Marc Piccioni, C.E.T.
Silvano Racioppo, C.E.T.
John Ranieri, C.E.T.
Nikola Repic
Paul Richardson, C.E.T.
Ivan Romanow, C.E.T.
David Scherle, C.E.T.
Robert Smith, C.E.T.
Timothy Stafrace, C.E.T.
Henriecus Timmers, C.E.T.
Gianpietro Trevisan
Lorenzo Vanin, C.Tech.
Gregory Varette, C.E.T.
Gilles Villeneuve, C.E.T.
Scott Wilson, C.E.T.
Douglas Wilson, C.E.T.
Gregory Wuisman, C.E.T.
Carlos Zapata, C.E.T.
Austin Dobson, C.E.T.
Warren Far, C.E.T.
Murray Hayes, C.E.T.
James Hayhurst, C.E.T.
Charles Himann, C.E.T.
Frank Hindle, C.E.T.
John Hodkin, C.E.T.
Larry Hogarth, C.E.T.
John Knight, C.E.T.
Brian Legault, C.E.T.
Y. A. M’Roueh, C.E.T.
Norman MacDonald, C.E.T.
John McMorland, C.E.T.
Ronald Miller, C.E.T.
Gary Morris, C.E.T.
Erich Nomn, C.E.T.
Desmond O’Hearn, C.E.T.
Ronald Pertras, C.E.T.
Oscar Rodrigues, C.E.T.
Allan Schwartz, C.E.T.
Ian Stewart, C.E.T.
Norm Traves, C.E.T.

40-year members
Csaba Abray, C.E.T.
David Aspinall, C.E.T.
Raymond Balzer, C.E.T.
Alexander Bartkiw, C.E.T.
Thomas Beckett, C.E.T.
Lionel Bedard, C.E.T.
Michael Costello, C.E.T.
Bruce Dingwall, C.E.T.

50-year members
D. Clayton, C.E.T.
Ed Conway, C.E.T.
Robert Gloor, C.E.T.
Bryan Jones, C.E.T.
Ralph Luhowy, C.E.T.
Adolfs Prenass, C.E.T.
Stanley Wild, C.E.T.

UPDATE YOUR E-MAIL
Ensure you are receiving the information that you need from OACETT. Simply log in to the member’s section of the OACETT website and click on “Update your personal information.”
My mistake!

Professional liability insurance and employment

OACETT, and its Alberta counterpart, ASET, have put a lot of effort, discussion and thought into developing a sound proposal for a universal (mandatory) professional liability insurance package for all members. OACETT members are encouraged to visit www.oacett.org to review the details of the insurance package and, as background material, a report prepared by a task group comprised of Council members containing recommendations that were made to full Council.

OACETT would make no profit at all through the provision of this benefit – so why would we consider it? Put simply, because all of us can expect to make mistakes in the course of our professional lives, and none of us wants to be liable for the cost of a serious mistake. And because professional liability coverage (and for that matter, frequency of disciplinary action against members) is an issue that arises with some frequency in discussions with government. Universal professional liability insurance has the potential to advance OACETT’s credibility and efforts in attempting to secure “qualified person” status (or equivalent concept) for OACETT members. Government and the public expect that our professionals will ensure that the public is protected from the consequences of error.

Professional liability insurance protects you against claims from parties who allege that you were negligent in providing professional services. That negligence can be described as failing to adhere to a reasonable standard of care expected of the profession under similar circumstances. When someone claims to have been wronged by negligence, they will often sue everyone who had anything to do with the situation. Litigation in a case of professional negligence is often lengthy and complex and the costs to get sound legal advice or to defend (not to mention the cost if you lose) can be truly significant. There may be disciplinary proceedings as well – always a serious situation. In either case, legal counsel should be retained (Any policy should sensibly provide for legal counsel not just for the damages action, but for any related discipline action).

How can you protect yourself? Not having adequate insurance protection can be a financial and personal nightmare. In a recent online general survey of OACETT members, 25 percent of respondents indicated that they are not sure if professional liability insurance is in place or available through their employer to cover their performance. The number of respondents who are unsure about the adequacy of their professional liability insurance is 40 percent and 43 percent indicated that their employer does not provide liability insurance coverage.

If you are an employee, you should review your employer’s liability policy to ensure that it provides adequate protection. Does it cover you on and off duty? Does it provide for notice to you, the employee, if the policy is lapsing? Does it include a right of subrogation, allowing the insurer to go after you personally for any negligence (to indemnify the employer for the cost of your mistake)? It probably does. Does it provide coverage for disciplinary proceedings by your professional association? Do you have to cover a deductible against any award of damages? Are there exclusions of coverage? Does it protect you from your own employer if your employer “blames it on you”? Remember – you need to protect yourself against all eventualities.

Most employees believe that although a mistake was his or her fault, since it happened at work, the employer or the employer’s insurance will “cover it.”

While most employers, for obvious practical motives, do “save their employees harmless” and do not sue them for mistakes which cost the employer money, that employer's insurer may not feel the same way and may very well have the subrogated right to sue you for what it has to pay out, notwithstanding all the goodwill of your employer. Under Canadian law, employers do not have an absolute legal duty to indemnify their employees. Generally, the law provides that an employer only has a legal duty to indemnify an employee if the employee was acting within the scope of employment, if the employee was blameless in the matter or if it occurred at the direction of the employer. If it arose as a result of the employee's own misconduct or negligence, then the employer has no duty to indemnify. And yes, if an employee has performed a negligent or other blameworthy act giving rise to liability, that employee may be personally liable without expectation of indemnity from, or recourse to, the employer.

Even if you are covered under an employer’s package, it is still not recommended that you rely on that alone. OACETT urges that you give some thought to the points raised here and look out for yourself and your interests.

The OACETT Council is considering instituting universal (mandatory) liability insurance coverage for certified and associate members providing $25,000 coverage (admittedly a threshold level). Coverage would be offered in a number of areas which are typically excluded from professional liability insurance, and are certainly excluded from most employers’ commercial general insurance. It would also include prompt access to legal advice and coverage for legal fees (up to policy limits) in lawsuits or discipline cases. The premium for the insurance package would be $25 per annum, added to your membership dues.

OACETT Council will be continuing to consider the merits of this concept, by both its value as a public protection program and its value as a safeguard for OACETT technicians and technologists. You will be hearing more about the program (including details on our web site), and we plan to ask for your opinion this fall in an e-poll on the topic so Council can make its decision with full knowledge of your views.

For more details consult the website and if you have any questions or concerns, please contact me at dthomson@oacett.org.

David Thomson
Executive Director

www.oacett.org
Recession resistant sectors
A look at stable or expanding sectors in Ontario from December 2007 to December 2008

Ambulatory health care: Gain of 800 facilities and approximately 3,400 workers for a two percent growth rate.

Nursing and residential care: Gain of four new large facilities and approximately 500 workers.

Social assistance: Expansion of services for a three percent growth rate and approximately 2,200 new workers.

Food services and drinking places: Gain of 226 establishments for approximately 3,000 new workers.

Food and beverage wholesalers: Gain of 80 establishments for approximately 200 new workers.

Food and beverage stores: Gain of 70 stores for approximately 370 workers.

Building material and garden equipment dealers: Gain of 32 stores for approximately 1,300 new workers.

Health and personal care stores: Gain of 177 stores for approximately 1,500 new workers.

Construction of buildings, heavy and civil construction and specialty trade contractors: Each grew by two percent.

Food manufacturing: Loss of smaller firms offset by new or expanding large facilities.

Miscellaneous manufacturing: Sector includes medical equipment, jewelry and silverware, sporting goods and office supplies among others. Gain of 30 facilities and approximately 360 new workers.

Waste management and remediation services: Five percent growth with 22 new facilities and approximately 580 workers.

Couriers and messengers: Gain of 39 establishments and approximately 123 workers.

Professional, scientific and technical services: Sector includes legal, accounting, architectural, engineering, computer systems, scientific R & D and advertising. Gain of approximately 1,800 workers.

These three occupations have consistently grown in Ontario, even when the manufacturing sector as a whole has struggled. It is likely that they will be less threatened in this current recession. Manufacturing sectors anticipated to recover fastest are computers, plastics and rubber, fabricated metals, machinery, wood and furniture.

Source: Centre for Spatial Economics, 2009

Manufacturing’s Stable Occupations
5 year growth rates of select occupations, Ontario

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Industrial electricians</td>
<td>17%</td>
<td>19%</td>
<td>31%</td>
</tr>
<tr>
<td>Mechanical engineering technologists &amp; technicians</td>
<td>9%</td>
<td>21%</td>
<td></td>
</tr>
<tr>
<td>Industrial instrument technicians &amp; mechanics</td>
<td>3%</td>
<td>57%</td>
<td></td>
</tr>
<tr>
<td>All Manufacturing</td>
<td>-9%</td>
<td>-7%</td>
<td></td>
</tr>
</tbody>
</table>

Statistics Canada, 2006

These college programs had at least half of their recent graduates working full-time in the related field six months after graduation*

<table>
<thead>
<tr>
<th>Program</th>
<th>Employment Rates</th>
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</thead>
<tbody>
<tr>
<td>Architectural technology</td>
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<tr>
<td>Horticulture technician</td>
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<tr>
<td>Aviation technician</td>
<td></td>
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<tr>
<td>Human resources management</td>
<td></td>
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<tr>
<td>Business administration - materials</td>
<td></td>
</tr>
<tr>
<td>and operations management</td>
<td></td>
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<tr>
<td>Chemical engineering technology</td>
<td></td>
</tr>
<tr>
<td>Interior design</td>
<td></td>
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<tr>
<td>Child and youth worker</td>
<td></td>
</tr>
<tr>
<td>Marketing management</td>
<td></td>
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<tr>
<td>Civil engineering technology</td>
<td></td>
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<tr>
<td>Mechanical engineering technician</td>
<td></td>
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<tr>
<td>Computer engineering technology</td>
<td></td>
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<tr>
<td>Motive power technician</td>
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<tr>
<td>Computer systems technology</td>
<td></td>
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<tr>
<td>Office administration executive</td>
<td></td>
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<tr>
<td>Construction engineering technology</td>
<td></td>
</tr>
<tr>
<td>Office administration legal</td>
<td></td>
</tr>
<tr>
<td>Dental assisting</td>
<td></td>
</tr>
<tr>
<td>OT/PT assistant</td>
<td></td>
</tr>
<tr>
<td>Dental hygiene</td>
<td></td>
</tr>
<tr>
<td>Paramedic</td>
<td></td>
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<tr>
<td>Electrical engineering technology</td>
<td></td>
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<tr>
<td>Pharmacy technician</td>
<td></td>
</tr>
<tr>
<td>Electronic engineering technology</td>
<td></td>
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<tr>
<td>Practical nursing</td>
<td></td>
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<tr>
<td>Esthetician</td>
<td></td>
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<tr>
<td>Public relations</td>
<td></td>
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<tr>
<td>Film and television production</td>
<td></td>
</tr>
<tr>
<td>Radiology</td>
<td></td>
</tr>
<tr>
<td>Heating, A/C, refrigeration technician</td>
<td></td>
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<tr>
<td>Veterinary technician</td>
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</tr>
</tbody>
</table>

*Minimum 100 graduates in Ontario in 2006.

Members on the move

Daniel Bennington, C.E.T., rcsi, has recently took a position with the City of Brampton in the Development Engineering Service Group as a Development Technologist. He works in the planning, design and development section where he is responsible for reviewing subdivision and site plans. Formerly, Daniel worked for R.J. Burnside & Associates Limited for five years as an Engineering Technologist.

Jim Harper, C.Tech., recently started working for Access Control Net, a security integration company, as a Technical Sales. Previously he worked for ISS Integrated Security Solutions Inc. in project management and consulting.

Willie Maghirang, C.E.T., has taken a new job with Peter Kiewit & Sons Co. in British Columbia as a Quality Assurance/Paving Supervisor. He is working on a 100 kilometre highway restructuring project for the 2010 Olympics. Peter Kiewit & Sons Co. is one of the largest construction companies in North America.

Zivko Panoski, A.Sc.T., has been hired by the City of Hamilton as a Development Coordinator in the Building Department. His prior position was with S. Llewellyn and Associates Limited where he worked as a Designer/Drafter.

Rob Parks, C.E.T., has joined Telesat Canada as a Senior Technologist. Previously Rob worked as a consultant in the satellite industry.

Paolo Pecchia, C.E.T., has recently completed his C.E.T. designation and started his own company, Bachman Development Group. The company designs and manufactures construction equipment.

Gregory Wuisman, P.Eng., C.E.T., is now the Director of Operations for the Township of Wainfleet, in the Region of Niagara. Wuisman moved to the public sector following several years of working in the private sector for TROW and Consoil Quality Control. He currently sits on the Board of Directors for Welland Hydro.

We want to hear from other members who have recently changed jobs, received a promotion or an award, or completed an educational program. Make sure your fellow OACETT members read about it in The Ontario Technologist. Don’t be shy — send in your submissions to the editor at info@oacett.org.
OACETT held a successful Annual General Meeting and Conference in Grand Bend from May 28 to 30. Looking to the future, the association introduced its new president and council to an audience of chapter representatives, strategic partners, academia and industry delegates. Program highlights included the Annual General Meeting, President’s Dinner and guest speakers Donna Messer, Steve Prentice, Mark Rector, Gail Smyth, Lance Novak and Dan Douglas.

OACETT Council

President’s report

President David Saunders, C.E.T., began his term in office along with a newly-elected Council (See Who’s Who on Council on page 14).

“In addition to our new Council members, we have a number of new chapter representatives and are becoming more diverse with a larger number of women and internationally trained professionals taking an active role in chapter leadership. All positive developments and I welcome you,” Saunders told about 150 members and guests.

Saunders is mindful of the significant progress OACETT has made in recent years. The six Strategic Priorities have provided a clear path by achieving membership growth, financial stewardship, driving certification, brand awareness and professional recognition. During his term, he promises to build on that success and is encouraging Council and chapter executives to focus on well-defined objectives that have performance measures.

He is challenging all chapter executives to lead the way by supporting what works, improving what can be improved and doing away with what is not working. “We need our 28 chapters to champion the Strategic Priorities at a local level and communicate it to our membership,” Saunders encouraged. “We all have a role to play in advancing our association and profession and collectively we can contribute to the success of our association.”

Saunders will be developing a substantive agenda that provides value to the membership. To accomplish this, he will consult with volunteers and Council and draw input from the recent member survey before heading a strategy session at the Council meeting in October.

For more information from the president, please see The First Word on page 4. For more information on the AGM and Conference, including photos and presentations, visit the OACETT website and go to Member Information – OACETT updates – 2009 AGM Highlights.
Chapter representatives

Representatives from 26 OACETT Chapters attended the 2009 AGM and Conference.

Financial report

Secretary-Treasurer and Chief Administrative Officer, Hillary Tedoldi reported that the association maintained financial stability and growth in 2008. She equates this stability to the association’s cautious approach to spending and investing last year.

“The year ended with a surplus of $191,000,” she reported. “In addition, total assets increased to $2.9 million, a 10 percent increase from December 2007.

The economic downturn of the stock market over the past year and a half resulted in a long-term investments loss of about 14 percent in 2008. However, she said there has been some recovery since February of this year and the market value of the OACETT investment portfolio as of May 21, 2009 was $1,914,000.

Tedoldi noted that membership remained above 23,000 active members by the end of 2008 with 1,015 students and 999 regular members joining the association during the recent annual general meeting.

Executive Council move forward with OACETT’s strategic priorities

President David Saunders, C.E.T. led an informative session on the future of OACETT. Saunders opened the meeting by acknowledging the importance of working together in a collaborative manner and how ongoing communication with each other is key to the success of delivering on OACETT’s six Strategic Priorities:

1. E-Association
2. Compliance and Standards
3. Succession Planning
4. Government Relations
5. Chapter and Member Engagement
6. Corporate and College Outreach

“The association has made some headway with these priorities, but there is more work to be done,” Saunders told the members. “The association is very fortunate to have over 350 active volunteers who together with OACETT’s staff work diligently to move the association forward.” He is counting on this support to drive these priorities forward.

Saunders introduced the Council Executives, David Tsang, A.Sc.T., Past-President, Stephen Morley, C.E.T, Vice-President, IETO and Bob van den Berg, C.E.T, Vice-President, PASB. Each of them talked about their plans for the future and what has been accomplished to date.

The President ended the session by reaffirming OACETT’s solid financial picture and the continued progress the association has made with new programs and services.
Social networking, Web 2.0 and you

Steve Prentice, President of Bristall Morgan Inc., encouraged AGM attendees to start connecting with people using social networking tools such as Twitter and Facebook that enhance the marketability of people and companies.

Through case studies, members learned the importance of these tools in business today and the role they play in managing professional relationships. Prentice presented ways to tap into these technologies and the benefits of broadening their networking approach.

Prentice said that OACETT members should have “at least 20 people to connect with on a regular basis.” These relationships can help them learn about where they can go next, connect with mentors and attract new employers. He added that it’s also a great opportunity to find out things about people you may not have learned before.

Members should consider social networking as a real time encyclopedia of people and the things you need to know. Prentice also said that hard times help people become innovators and leaders and that’s why social networking has gained relevance. Through blogs, Google news alerts and online groups like LinkedIn, people are keeping a finger on the pulse and more than ever, are realizing the benefits of staying connected.

He encouraged OACETT to use these tools to connect with members and other organizations.

In appreciation of our volunteers

During the President’s Dinner, David Saunders, C.E.T., thanked Past-President David Tsang, A.Sc.T., for his exceptional leadership over the past two years and presented him with a certificate of recognition. His wife Ginette Tsang was also acknowledged for her continuous support.

As a part of the ceremony, Tsang presented plaques to the councillors and volunteers not returning for the next term to thank them for their outstanding contributions to the engineering technology profession and the association.

Gene Stodolak, C.E.T., from the Horseshoe region served as OACETT’s Past-President for the past two years. He remains active on the Canadian Council of Technicians and Technologies (CCTT) board until this Fall.

Diane O’Heron, C.Tech. from the Eastern

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region served as Vice-President of the Professional Affairs and Services Board for a two-year term. John Bierling, C.E.T., from the Western region served as PASB Councillor for four years.

Dr. Ravi Gupta, P.Eng, served as an Ex-Officio council member representing PEO for the past two years. George Fletcher, C.E.T. served as Guest of Council for 15 years.

OACETT introduces Prior Learning Assessment and Recognition (PLAR)

Sam DiGiandomenico, Director of IETO and Registrar, held an informative session on Certification and Prior Learning Assessment and Recognition (PLAR). This new program, which will be launched soon, offers non-traditional applicants an additional method to assess and recognize their knowledge and capabilities.

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Who’s who on Council

President
David Saunders,
B.E.S., C.E.T.

OACETT’s new president, David Saunders, C.E.T., took office at the association’s annual general meeting in May. For the past two years, Saunders has served as president-elect and chair of the OACETT Administration Board.

He began his volunteer work with OACETT in 1995 and has served as a chapter executive, as OACETT Central Region Councillor and as a member of the CCTT/OACETT Task Group, the LET Oversight Committee and the MPP Links Program.

David lives in Bracebridge and has worked as Manager of Public Works and Operations for the Town of Gravenhurst for the past five years.

“The Town of Gravenhurst is exceptionally proud of David Saunders’ recent election as President of this quality organization,” said John Klinck, Mayor of Gravenhurst. “For a half-century, Ontarians have benefited from the contributions of OACETT, its members and volunteers. We would like to wish David and his associates much success in their continued advocacy, to the benefit of both their members and the public.”

David is a graduate of the Environmental Engineering Technology program at Georgian College. He also holds a bachelor’s degree in environmental studies from the University of Waterloo and is completing a certificate in public administration from Athabasca University.

David is married to Peggy and has a son, Adam who will be attending the University of Western Ontario for mechanical engineering in September.

Past-President
David C.M. Tsang, A.Sc.T.

David Tsang began his volunteer work with OACETT in 1981. He has held positions as OACETT Horseshoe Regional Councillor, chair of the Audit Committee, member of the Finance Committee and for the past two years as president of OACETT. As past-president he will act as CCTT director and chair of OACETT’s Nominating Committee for the next two years. Tsang is the supervisor of technical services with the City of Welland’s engineering department.

President-Elect
Rod MacLeod, C.E.T.

A dedicated OACETT volunteer since 2000, Rod MacLeod has served as chapter chair and director of the Sault Ste. Marie Chapter and, from 2005 to 2009, as the Councillor for the Northern Region. MacLeod is a Senior Civil Technologist for Brookfield Renewable Power and in 2006, earned a bachelor of science from the University of Waterloo. As president-elect he will serve as chair of the OACETT Administration Board for the next two years.

Vice-President Professional Affairs and Services Board (PASB)
Bob van den Berg, C.E.T.

Bob van den Berg has been a certified member of OACETT since 2001. He has an electrical engineering technology degree from Ryerson and works for Wainbee Limited as a product manager for their Electrical/Mechanical and Assembly System business teams. He was chapter chair of the Durham Chapter for four years and has served on the OACETT Awards Committee, the Auditor’s Review Committee and as PASB Councillor for the Central Region. He has lived in Oshawa for the last 20 years and is married with two boys, aged 11 and nine.
THE OT PROFILES THE ASSOCIATION’S 2009 TEAM OF ELECTED REPRESENTATIVES

Central Regional Councillor Kim Pickett, C.E.T.
Kim Pickett has volunteered with OACETT since 2003 as a chapter executive for the Georgian Bay Chapter and is currently a member of the Environmental Committee. Pickett has a degree in geoscience from McMaster University and a diploma in environmental engineering technology from Confederation College. She has worked in municipal government for the majority of her career and currently works as a technical compliance supervisor for the County of Simcoe.

Vice-President, Institute of Engineering Technology of Ontario (IETO)
Stephen Morley, C.E.T.
Stephen Morley leads the IETO Board for his second term of office. He has served as the IETO Councillor for the Central Region, as chair of the Education and Examination Committee and as a volunteer on the Admissions Committee. He is a product group manager at one of two Hazardous Locations product groups in CSA International’s Toronto office.

Central Region IETO Councillor Greg Miller, C.E.T.
Greg Miller became involved at the chapter level in 1999 and has served as college liaison, vice-chair and chair of the Georgian Bay Chapter, and is currently the chair of the Environmental Committee. He also served as the Secretary-Treasurer for the Central Region before taking up his current post. Miller has 10 years of experience in the municipal sector and is currently employed as the Deputy Chief Building Official with the Town of The Blue Mountains supervising the town’s Building Code Program.

Eastern Regional Councillor Sharon Reid, C.Tech.
Sharon Reid has served as Eastern Regional Councillor since 2008. She was previously secretary-treasurer of the Eastern Region and has served on the Peterborough Chapter executive. Reid is an instrumentation technician for Canadian Instrumentation Services Group.

Eastern Region IETO Councillor Ron Walker, C.E.T.
Ron Walker is serving his fifth term on the OACETT Council. In addition to his role as Councillor he is also the Chair of the Complaints Committee and has served on several national accreditation teams. He is currently working on behalf of OACETT with a group of industry leaders to secure the right to work for members in certain areas of the electrical sector. Walker is a professor at Fleming College where he coordinates the Computer Engineering Technician and Technology programs. He is a past recipient of the Blake H. Goodings Award for his service to IETO.

Horseshoe Regional Councillor Ken Browne, C.E.T.
Ken Browne started his volunteer career with OACETT as a director for the Hamilton Chapter in 1996. He was co-chair of the chapter for five years and the secretary-treasurer for the Horseshoe Region for two years before joining Council in 2005. He is the chair of the Provincial Awards Committee. A resident of Burlington, Browne has worked for the City of Brampton for 21 years and is currently a Traffic Operations Technologist III in Traffic Engineering Services.
Horseshoe Region
IETO Councillor

Jelbert Real joined the Peel Chapter executive in 2003, serving as director and vice-chair. He has served as IETO Councillor for the Horseshoe Region since 2007. Real earned a Bachelor of Science in Civil Engineering from Mapua Institute of Technology in Manila, Philippines and has earned credits in Masters of Science in Structural Engineering from the University of the Philippines. He has more than 20 years of experience in civil and structural engineering projects.

Northern Regional Councillor
Wm. Andrew Dryland, C.E.T.

Wm. Andrew Dryland graduated from Cambrian College in 1986 with a diploma in Civil Technology and became a member of OACETT. After graduation he started his career with Dennis Consultants, a division of R.V. Anderson Limited and began volunteering with his local chapter. He has been involved with the Sudbury Chapter in many different capacities over the last 23 years serving as chapter treasurer, secretary and for the last three years as chair.

Northern Region
IETO Councillor
André Tardif, C.E.T.

André Tardif has volunteered for the Near North Chapter since 1993 where he has served as treasurer, chair and past-chair. He joined the Council to represent the Northern Region in 2004. He was part of the National Accreditation team for Seneca, Centennial and Sheridan College. Tardif is retired from his job as manager, electronics maintenance section for NAV Canada at the North Bay airport. He won an OACETT Editorial Excellence award in June 2007.

Toronto Regional Councillor
Steve Barnes, B.AET, C.E.T.

An OACETT member since 1992, Steve Barnes has volunteered at the chapter level as secretary, vice-chair and chair, and has been the Toronto Regional Councillor for seven years. He has served on the IETO Board, Professional Affairs and Services Board, Editorial Advisory Committee, Examination Committee, MPP Link Program, Government Relations Committee and Engineering Innovations Forum Steering Committee. He received the OACETT Outstanding Community Service Award in 2000. Barnes has a bachelor’s degree in architectural engineering technology and is a project estimator for Terrazzo Mosaic & Tile Company Ltd.

Toronto Region IETO Councillor
Eduardo Prillo, C.E.T.

Ed Prillo began his volunteer service at the Toronto East Chapter as secretary, treasurer and chapter chair. In 1997, he became IETO Councillor for the Toronto Region and he is currently chair of the Admissions Committee. He has also invigilated the OACETT Professional Practice Examination at the University of Toronto and Ryerson University. He works for the Technical Standards and Safety Authority (TSSA) as Boiler & Pressure Vessel/Operating Engineers Safety Inspector. He is a past recipient of the OACETT Distinguished Service Award.

Western Regional Councillor
Christopher van Dop, C.E.T.

Christopher van Dop has lived and worked in Southwestern Ontario most of his life. He graduated from Ryerson Polytechnical Institute in 1982 as a mechanical designer. Van Dop became an OACETT member in 1985 while working for Magna International. He became involved with the Grand Valley Chapter of OACETT in 1999 and served as chair from 2006-2007 and has also held positions as vice-chair and secretary. He has experience in diverse roles including design, applications, purchasing and sales of automation systems and components for various manufacturing sectors.
Philip Maka, P.Eng.
Appointed representative from PEO

After graduating from the University of Toronto with an engineering degree in metallurgy, Philip (Phil) Maka began a 27-year career at Ontario Hydro in design, construction and nuclear and fossil operations. Maka is retired following a period of self-employment, during which he did contract engineering and project management work. Phil has been an active PEO volunteer for 23 years and is serving his seventh year on council as an elected Regional Councillor. In 1998, Phil was inducted as a Member of PEO’s Order of Honour.

Laurel Schollen
Appointed representative from the Heads of Technology

Laurel Schollen has been the Dean of Applied Sciences and Engineering Technology at Seneca College since 2002 and Co-Director of the York/Seneca Institute for Mathematics, Science and Technology Education since its inception in 1999. She is also the Project Director for the College Mathematics Project, a research study which examines factors contributing to success and failure in college mathematics, including secondary school mathematics pathways and achievement.

Sean O’Reilly, Architect, B.E.S., B.Arch., OAA, FRAIC
Appointed representative from OAA

Sean O’Reilly is the past-president of the Ontario Association of Architects and principal of three stones architecture and design in Lisle, Ontario.

Martine Band
Appointed representative of the public

Lawyer Martine Band joined the OACETT Council in 2005 to bring a broader, public perspective to the association. She is Associate General Counsel at the Ontario Energy Board in Toronto.

Vince Le Faive, C.E.T, CBET(c)

Vince Le Faive has volunteered his time and efforts since 1991 to raise OACETT’s profile with industry, academia and within community and youth organizations. Le Faive was chair of the London Chapter for two consecutive terms and has been the Western Region PASB Councillor since 2003. He received an OACETT Merit Award in 2002 for his contributions to the London Chapter and the Thomas William Hopson Memorial Medal for his humanitarian work in Belarus. Le Faive is the proud father of two children, Joe and Laura.

Sean O’Reilly, Architect, B.E.S., B.Arch., OAA, FRAIC
Appointed representative from OAA

Sean O’Reilly is the past-president of the Ontario Association of Architects and principal of three stones architecture and design in Lisle, Ontario.

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A nervous professor flubs the countdown. Perhaps a Sesame Street counting lesson should have been included in the thousands of hours of prep time for this project. As over one hundred colleagues, students, VIPs, deans and the president of Humber College look on with trepidation, we unsquelched the receiver to utilize the last ounce of radio frequency (RF) signal sensitivity. Only loud static filled the room. We fretted about our calculations of path loss and the two years of hard work that was on the line with the cameras rolling. My student Gino Cunti called out using his brand new two-metre call sign license. Then a faint, almost unintelligible, static drenched voice burst through, “I have you a little bit weak but go ahead!”

Triumph! “Yes!” The joy was tempered only by the lack of clarity. NASA astronaut Sandra Magnus’ voice was coming from the International Space Station 400 kilometres up and hurtling over our heads at a blistering 27,000 kilometres per hour. But her very next transmission sounded so clear, it was like she was on a handheld transmitter out in the hall. We had done it!

This is the inside story of four amazing engineering technology students who had a dream – a story that includes my role as their professor and how trying to realize that dream led to history being made in a Toronto classroom on February 2, 2009.

Being the first college students to design and build a communications system to talk to astronauts on the International Space station, Paul Je, Gino Cunti, Patrick Neelin and Kevin Luong played way above their league on that historic day. Many ham radio veterans and several groups of professional radio engineers and technologists had achieved radio communication with the Space Station or the shuttle in the past. Neelin’s own grandfather has a certificate proving he communicated via ham radio with the Apollo 12 astronauts, back in 1969. But these four students certainly weren’t even in the ballpark of having enough knowledge to make contact when they began the project in their third semester of school. In spite of their inexperience, they went on a quest for knowledge and skills, and in the process I learned plenty from them along the way.

The four of them had to come up with a technical project of their own design for the final semester of their three-year technologist diploma program at Humber College. The students in these and other related programs usually come up with some amazingly complex designs and some really eager students start their projects early; some as early as the end of their fourth semester. Everything from motion sensing RC-car transmitters, electrical generators built from bikes and heart monitors built from scratch.

The budding technologists were inspired by the many stories I told in class of the long rich history of telecommunications in Canada where, in my opinion, we have invented every major telecommunications device that matters. I told them of Alexander Graham Bell, sitting on the banks of the Grand River in Brantford, watching the waves ripple from thrown pebbles. Suddenly synthesising years of work on sound waves and electric waves, Bell came up with a simple device to create the telephone.

I told them of a young Reginald Fessenden who, upon learning of the first phone demo at the age of
ION:

BY MARK RECTOR, A.SC.T.
10 mocked Bell for using “silly wires” to send a human voice when he “could send it without wires across the sky, like a thunder clap!” He was confusing sound waves with radio carrier waves, but 10 years later no one mocked him as he sent a human voice across the sky on a radio wave without wires. It is hard to find Canadian history books extolling the exploits of these and other Canadians like Henry Woodward, Cyril Duquet, Frederic Gisbourne and Sir William Stevenson (spy and inventor!). These four students wanted to do something like these pioneers to put their college and Canadian skills on the map. Some 37,000 news stories from around the world later, I think they succeeded.

The plan
The students came to me during their third semester and asked me to be their project mentor. Almost two years early, I thought they were being a bit over eager until they dropped the bombshell that their project would be radio communication with someone in space! At that point in their education they knew about simple parallel resistor circuits and simple one-transistor amplifiers. Feedback, oscillators and carrier waves were unheard of to them and frequency modulation was a distant four months ahead in their course load. I thought the impossibly complex project was just not in their realm of abilities, nor would it be by graduation. I wasn’t sure if it was within my abilities, even with almost two decades as an experienced RF technologist in the field of public safety communications.

That being said, I didn’t want to discourage them — I know how important dreams are. I asked them to research a few things and explain to me some pretty tough concepts of gain antennas, antenna azimuth and elevation alignment within the next month. They came back after two long weeks of studying and had all the answers and more! They learned of NASA’s program, ARISS (Amateur Radio International Space Station), which allows a select few RF professionals or experienced ham radio clubs to set up donated communication systems to allow school-aged children to talk to an astronaut. The students suggested we apply to get a sanctioned contact and they would build the system with my help. Sure, I said, never believing a few college kids would even be noticed by NASA. I figured even if they were turned down, at worst, they would gain some extra knowledge outside their regular curriculum. We later learned NASA was surprised to hear of college students using their own electronics skills to build a system of their own for one these contacts, but nonetheless, we were given a window for contact for April 2009.

Being such an ambitious project, I asked Humber College president John Davies to come to my class and indulge the four of them long enough to see their 15-minute presentation. They looked slick, professional and confident, even though at that point we had only bought (and not yet assembled) one antenna of two full independent communications systems. The president was so impressed that he generously offered some badly needed funding. His crucial funding got the project off the ground and we later received other donations which rounded out our total budget to just less than $4,000. One of NASA’s single pole, single throw power switches probably costs that much. Four thousand dollars and four not-yet-graduated technologists to build a communications system to NASA specs to talk to an astronaut. Sure. Let’s invent nuclear fission while we are at it!

The students ploughed ahead, first building the OSCAR style yagi antenna (15 dBi of gain) from a kit, followed by the transmission cables. I had to take them back to their first course with me on basic soldering and proper connectorization of RG 213 cable. I mentored, taught and helped clarify what they were learning on the intricacies of TX line loss, skin effect and VSWR (voltage standing wave ratio). I asked how they planned to articulate the antenna to precisely follow a speeding bullet
across the sky from AOS (Acquisition of Signal) to LOS (Loss of Signal at the opposite horizon) while maintaining a viable communication channel without catastrophic signal losses. Puzzled, they said they'd get back to me. They researched azimuth and elevation gimbals and found that other groups built and programmed their own PIC-type microcontrollers to control the gimbal system. Building and properly debugging a PIC microcontroller would have been a full project on its own and yet this was one small piece of the puzzle.

**Team First Contact and their antenna**

At this point, we only had another 10 months before graduation and the culmination of our project. I never voiced my fear we wouldn’t make it.

They learned PIC micro-programming and found some Nova satellite tracking software from Northern Lights Software Associates (NLSA). This software had gigabytes of code and had to link to multiple databases to get co-ordinate data and then configure it to track a particular space object (there are thousands to choose from in this software). By now we should have been having a full-scale panic attack.

We needed a transceiver and NASA’s stringent specs (and the fact that Humber doesn’t own a billion dollar RF PC board fabrication facility) precluded them from building their own radio. I have tested, serviced and evaluated dozens of mobile and VHF radios in my career, but they’d never even seen a real one and still struggled to draw the crucial block diagram of a superheterodyne receiver. As most modern VHF radios have to be programmed with all their parameters, they had to learn that too! They weren’t going to be taking my class on receiver SINAD (signal-to-noise-and-distortion), quieting tests and transmitter checks for another four months, but needed to test and evaluate these specs now. It was time to break out the manual.

NASA’s specs required two full independent communication systems. We had barely got one system working fully by the Christmas break in 2008. We had four months until our requested window of April 2009 to complete the second system and align, calibrate and simulate our contact (you don’t get a real pre-test before your scheduled date, we’d be flying on hope when the show went on). I was pushing them hard as I wanted us to be ready early.

Then out of the blue, thanks to our simple contact with one reporter back in November, the media floodgates opened. College newspapers, university radio shows and local media all wanted to photograph and interview the four suddenly cool ‘nerds’ and their professor about this great feat they were trying to pull off. If only we could get time to work on it!

As the clock ticked down those final days, we did not have one single successful simulation. The students remained confident, if not a little cocky. Hey, they deserved to be. They had learned most of their program outside their scheduled classes. I was cautiously optimistic. RF is a funny, finicky science. We were going to go live that morning on a carrier wave and a prayer with what turned out to be a media storm of cameras, microphones, recorders, live news feeds and every recognizable reporter I’d every seen on my TV screen. Our 20-seat lab packed in almost 100 people and their electronic news gear. The chance of any electromagnetic interference taking out our signal weighed heavily on my mind with my dean and president both eagerly watching as we showed off Humber’s ingenuity.

Two years of 75-hour weeks and two weeks of furious last minute logistics later, we found ourselves at contact day.

**The Final Countdown**

The students got special permission to be in the labs late at night and on weekends. I remember feeling the pressure of our deadline and, not getting results, trying desperately to align the antenna high up on the roof in a sleet storm in the dark. Their research clashed with my experience and through wind whipped faces we argued and yelled about which orientation was necessary to achieve the proper circular polarization for our signal. We tested and compared notes and burned through books, websites and reference material.

The youthful exuberance from how far they had come made for some conflicting ideas of how pressed or how loose we were in terms of schedule. That is until I opened an e-mail on New Year’s Eve 2008 and saw we were being bumped up and scheduled on a NASA flight plan in only four weeks!
flames. These four Canadian heroes that I nurtured through three years of learning and skill development were about to make me either extremely proud or just plain ecstatically proud.

We heard nothing but bursts of taunting static. And then the overwhelming joy and emotion of two years of hard work, determination and brilliance culminating as that single carrier wave’s modulation delivered the voice of that lovely, brilliant Flight Engineer and Science Officer from Illinois. Sandra Magnus spoke into a microphone 400 kilometres above the surface of the earth and four students and their professor went over the moon!

Professor Mark Rector, A.Sc.T. is the Co-ordinator of the Engineering Electronics Technology Program at Humber College. He is currently working toward his C.E.T. designation with OACETT. You can contact him at mark.rector@humber.ca.

Success! From left: Partick Neelin, Paul Je, Professor Mark Rector, Kevin Luong and Gino Cunti make contact with the International Space Station. Photo credit: Chris So/GetStock.com

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- Understanding Industrial Codes, Part I - ASME Section 8 (Pressure Vessels) and Section 5 (Non-Destructive Examination) ................................ September 28-29  Mississauga
- HVAC System Design and Implementation - New and Retrofit ..................... October 13-15  Mississauga
- Compressors and Pumps: Selection, Applications, Operation, Troubleshooting, and Maintenance ................................................................. October 19-23  Mississauga
- Pre-start Health and Safety Review ...................................................... October 23  Mississauga
- Boiler Plant Optimization ................................................................. October 26-27  Mississauga
- Building Control Systems ................................................................. November 12-13  Mississauga
- Materials of Construction for Process Equipment and Piping Systems - Selection and in-Service Performance ............................................. November 24-27  Mississauga
- Pre-start Health and Safety Review ...................................................... December 18  Mississauga

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NOTES ON THE EXAMINATION

A brief examination preparatory study guide (which may include a list of some texts recommended for review) is provided by the Examination Committee. Candidates may expect to receive this guide within six months after this application has been received by OACETT. Candidates will also be informed of any allowable examination aids permitted when writing the exam.

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OACETT, Camilla Poliah, Manager of Admissions and Certification, 10 Four Seasons Place, Suite 404, Etobicoke ON M9B 6H7 or fax with credit card payment to (416) 621-8694.
A systematic approach to networking—putting the pieces together

According to the dictionary, networking is “a supportive system of sharing information and services among individuals and groups having a common interest.”

I believe that the networking system I use is a process that is not only comfortable for members of OACETT, but is a simple strategy that can be implemented by anyone. Think of the system as a puzzle with each piece fitting into the next piece.

**Opportunity**
The system begins with an opportunity. It is important that you evaluate everyone you meet and determine if they are someone that could be a good connection for you or for someone you know. Networking is about sharing resources and contacts. It’s not just what you know, but who you know that is important.

Once you have determined that this opportunity is one to pursue, you ask for a business card and tell the person you will be in touch.

**Contact**
Now you move on to “Contact.” Ask how best to communicate with them in the future. If it’s by e-mail, ask them what to put in the subject line so they won’t delete your message. If it’s by phone, ask who answers their phone and make a note of that name on the back of the business card.

**Explore**
Before you reconnect, you need to move to the next step: explore. Search for the person through sites like Google and LinkedIn to find out what you can about them. People like people who are similar to themselves; they buy from them, sell to them and refer them! Find your common ground. It can be a hobby, a charity, an association, but there should be some commonality. When you make that call or send that e-mail you want it to be worthwhile for both of you.

**Strategize**
The next step in the process is to strategize and it’s an important piece of the puzzle. Who are you? Who are they? What can you do or say that will make them want to know you and who you know? Developing a strategy is key to making a successful connection. Perhaps your strategy is to invite them to come to your next OACETT meeting to connect with fellow members. Perhaps you met at a conference where they were speaking and you would like to invite them to consider speaking at your chapter in the future.

**Negotiate**
Once the strategy is in place and you’ve made the reconnection, you are ready to negotiate in order to find something that will give you a win/win scenario. It could be as simple as an invitation to attend your new colleague’s association, or the opportunity to meet with someone from his or her company. Negotiating is not an easy task for many Canadians, and asking and getting is not as simple as giving. Consider this: “if I introduce you to my organization where I know you will be able to speak, I would appreciate an introduction to your HR person as I would like to know more about career opportunities in your company.”

**Solution**
The final stage in the systematic process is solution – the results should be measurable. If the solution got you the interview with the HR department and your colleague has been asked to speak to your chapter it was a win/win scenario. There are hundreds of similar ways to turn each opportunity into a solution. Networking isn’t a social process; it is a procedure with steps that can be utilized in almost every situation.

Donna Messer is an author, speaker and coach. Considered a networking guru, her book “Effective Networking Strategies” is a Canadian bestseller. For more information visit www.connectuscanada.com.
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- John Williamson, C.Tech.
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- Anas Al-Kasar
- Natalie Beauregard
- Deon Bellamy

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- G. Wilson, C.E.T., rcca

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**Technical Specialist**
- Timothy Merritt, rcsi

### New OACETT Members with MTO Designation

**Graduate Technologists**
- Md Mozibul Haque, rcji
- Elissa Marcil, rcji

**Technical Specialists**
- Jason Kelsall, rcji
- Gary Noble, rcca

### May 5th, 2009

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- Paul Corsi, C.E.T.
- Lindsay Debus, C.E.T.
- Maria Regina Goze, C.E.T.
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- Michael Sleight, C.E.T.
- Manishkumar Thakar, C.E.T.
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- Daniel Boateng, A.Sc.T.
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- Kevin Labossiere, C.Tech.
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- Philip Bannister
- Leanna Barclay
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- Saira Batool
- Jasmyne Berschl
- Nermim Bilalic
- Justin Bollmann
- Michael Bosma
- Michael Bosscher
- Drake Bouwman
- Ryan Brennan
- Michael Bridgemohan
new members

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Pascual Autorino
Nitin Bhatt
Andrew Campbell
Juan-Antonio Caravaca-Lopez
Puneet Chadha
Giuseppe Colangelo
Roderick Corkum
Jonathan Crame
Derek Cruikshank
Bruce De Foa
Jatinder Deol
Gerry Domingo
Zoilo Dumpit
Nickolay Dyachenko
William Fields
Marcello Fossella
Satish Gandhi
Anil Gandhi
Adityanand Ganpat
Viktor Gayevski
Naveen Gupta
David Hall
Justin Hampton
Brandon Hedges
Aung Htain
Su Huang
Robyn Huezo
Dharmendra Jani
Chandrabalan Jayaraman
Miguel Kellman
Omar Lerma Hurtado
Arturo Lim
Krishna Mahadeo
Michael Maiorana
Christopher Marks
Gary Masse
Devinder Matharu
John Maynard
Magdalena Gabriela Minea Manolachi
Bryan Moffatt
Eduardo Monsalve Perez
Angel Narvaez
Mamatjan Nayup
Aleh Paduta
Manojkumar Patel
Pranavkumar Patel
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Margi Patel
Rajender Kumar Peddi
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Sorin Popovici
Ritche Rabara
Anil Ramjigassar
Dushyant Rao
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Richard Vernhout
Clarence White
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Zhuoqiang Zhu

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Paul Hinsperger, C.E.T., rcsi
Imran Jaffari, C.E.T., rcji
Ariyanayagam Karunakaran, C.E.T., rcsi
Naresh Malla, C.E.T., rcsi
Karunakumar Selvarajah, C.E.T., rcra
Christian Urbina, C.E.T., rcji

Applied Science Technologists

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Frances Patterson, C.Tech., rcji

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Raymond Wigmore, rcji

Graduate Technologists

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Hamid Hamif, rcji
Rodney O’Neill, rcji
Rajkumar Sehgal, rcji

Technical Specialists

MD Haider Ali, rcji

Technical Specialist

New OACETT Members with MTO Designation

Associate Members

Matthew Clouthier, rcji
Kari Jokela, rcji

Graduate Technician

Marshall Dean, rcji

Graduate Technologists

Nelson Guiot, rcji
Gary Magee, rcji
Yuriy Silin, rcji
Larry Verrelli, rcji

Technical Specialists

Charmaine Brown, rcji
Ryan Hume, rcji
John McDougall, rcca
Mario Piette, rcji

IN MEMORIAM

Franklin Bell, C.E.T.
Heico Bloem, Senior Engineering Technician
James Brown, C.E.T.
John Kassner, C.E.T.
George Laird, C.E.T.
William Matichuk, C.E.T.
James Miller, C.E.T.
Wassil Nedelscheff, C.E.T.
Ronald Norwood, Senior Engineering Technician
Joachim Otto, C.E.T.
John Pihura, C.E.T.
Harry Raghunandan, C.E.T.
Kenneth Tanino, C.E.T.
Donald Waliga, Senior Engineering Technician
Essex Chapter

Night with the Spitfires!

The Essex Chapter is planning a night with the defending Memorial Cup Champions, the Windsor Spitfires! We are booking a suite at the WFCU Centre in the fall and we are looking for OACETT members to fill our suite. The cost will be $40-45 dollars, which includes your ticket, snacks, door prizes/draws and a chance to win a Spitfires jersey! The suite holds 40 people, so space is limited and tickets will be sold on a first come, first served basis. Currently tickets can only be purchased for OACETT members and may be opened up to family members or co-workers if tickets are left. When the suite has been officially booked, we will announce the game and provide an exact ticket price. If you are interested in a ticket for this event please contact David McBeth, C.E.T. at dmcbeth@dillon.ca. Go Spitfires!

Tour of the WFCU Centre

About two weeks before the Spitfires game, the Essex Chapter is planning a tour of the WFCU Centre where the Spitfires play. The date of the tour is to be determined and will be listed on the Essex Chapter website and sent out via e-mail to chapter members. The WFCU Centre opened last year and should be an interesting tour. If you are interested in participating please contact David McBeth, C.E.T. at dmcbeth@dillon.ca.

St. Clair College Concrete Canoe Team

This year the St. Clair College Concrete Canoe Team joined forces with the University of Windsor team to build their canoe called “Full Circle.” The two teams competed at the Canadian National Concrete Canoe Competition in Montreal in May. Their canoe placed fifth in best product and ninth overall at the competition. This year’s competition featured specific rules for design of the canoe and the students worked hard to build it.

David McBeth, C.E.T., is Essex Chapter Chair: dmcbeth@dillon.ca

Grand Valley Chapter

The Grand Valley Chapter is in the final stages of “Adopting a Road.” The road section that is to be adopted is County Road 124 in Wellington County from the south city limits of Guelph to County Road 32. Adopting a road commits the Grand Valley Chapter to performing two roadside clean ups every year. We would like to thank Arthur Choga, C. Tech., for being the champion of this committee. Clean up dates and times will be posted on the GVC website and sent out to chapter members by e-mail. Be sure to sign up for this worthwhile community event.

Upcoming events

The Grand Valley Chapter is going to be busy in late summer and fall. In late August the college liaison committee will be hosting a BBQ for the final term co-op students from the mechanical and electrical engineering technologist programs at Conestoga College.

Also in the planning stages is a dinner boat cruise on the Grand River.

The annual Chapter Golf Tournament is scheduled for September 12 at Victoria West Golf Course in Guelph. Be sure to mark your calendars as this is always a great event. Registration information will be circulated as we get closer to the date.

During Technology Week, which takes place October 19-23, the Alternative Energy Committee will be doing a presentation to children from grades three to eight at Christ the King School in Cambridge. This is the second year for this presentation.

Visit our chapter website, www.oacettgvc.ca, for more information on upcoming events. Anyone interested in chapter events can contact Mike Laurie who will direct inquires to the appropriate committee chair.

Mike Laurie A.Sc.T. is Grand Valley Chapter Chair: mike-laurie@melloul.com

London Chapter

The London Chapter was pleased to host the OACETT’s AGM at the Oakwood Inn near Grand Bend. The head office did a great job organizing the event. We all came away from the event with good memories and good information.

The chapter is having another successful year with its secondary school student award program. We are presenting awards to students with outstanding achievements who are continuing to community college in a technology program. Presentations were made at five schools in June and students from another 15 schools will receive awards in the Fall.

Daryl Keys, C.E.T., is London Chapter Chair: london-chapter@oacett.org
ner. Net proceeds fund post secondary student awards.

For team registration, prize donations, hole sponsorship, or general inquiries please contact: Darren Livingston, P.Eng. at 705-725-6442 or Brian Emery, C.E.T. at 705-727-4633 or 705-436-5838.

We thank you in advance for your consideration of this event and look forward to seeing you on the course.

Brian Emery, C.E.T., is Georgian Bay Chapter Chair: georgianbay-chapter@oacett.org.

York Chapter
Networking – extend your career boundary
We all know that networking plays an important role in our career development. Even if you have academic or professional experience it helps to be well connected in your industry. Considering the current economic environment, the York Chapter is planning to hold a networking workshop in September. We will invite a consultant to organize a networking workshop for us to understand and practice our networking skills. Please visit the York Chapter web page for event information.

Patrick Ng, C.E.T., is York Chapter Chair: york.yourchapter@oacett.org.

Timiskaming
On Saturday, April 25, 2009 the Timiskaming Chapter held its Annual Meeting. Prior to the meeting a tour of the new MaJIC facility at Northern College, Kirkland Lake Campus, was conducted by Don Dekker C.E.T., C.S.T. This new facility has been established as a world class centre for testing and establishing new procedures in material joining. Their mandate is to assist with and find solutions to problems encountered in the material joining industries.

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After the tour a dinner meeting was held where all officers were acclaimed and it was decided to continue the chapter’s support of the local Robotic Competition Team and bursaries to the various high schools in our area.

Jim McLaren C.E.T., is Timiskaming Chapter Chair: timiskaming-chapter@oacett.org.

Timmins Chapter

A tailgate BBQ was held on Friday June 5, 2009 in the back parking lot of Timmins High and Vocational School to promote technology and trades to high school students.

Tours of the technical department were given and Northern College and OACETT had information booths set up.

Many businesses, suppliers, contractors and engineering firms gave door prizes and/or donations and attended the event. There was also a raffle draw where first prize was a picnic table constructed by the students. $1,200 was raised in donations and a portion of the money will go towards graduation scholarships.

Timmins high and vocational school, OACETT Timmins chapter and Northern College would like to thank the following businesses for their generous support:

**OACETT**

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<td>District School Board Ontario</td>
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<td>North East</td>
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Shane Dubroy C.E.T., is Timmins Regional Chapter Chair: timminsreg-chapter@oacett.org

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An expert trainer will guide you through the nuts and bolts of preparing your Technology Report for your C.E.T. certification.

The seminar reviews all aspects of technology report writing, such as:

- Writing a Proposal Letter
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- The Abstract
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**Next Sessions:**
September 14 - 15
October 17 - 18
November 21 - 22

Register at www.oacett.org or contact: Sarah Halabi, 416-621-9621, ext. 255 shalabi@oacett.org
Construction Studies Award ceremonies held in May at Niagara College, Welland Campus.

The chapter’s second Annual Golf Tournament will take place on Friday, August 21, 2009 at the Peninsula Lakes Golf Club in Fenwick. Tickets are $50 a person and includes nine holes, a cart and dinner. Tee times begin at 3:30 p.m. Space is limited to 40 golfers. For more information please contact Denise VanOsch at 905-871-4950 or toleksiuk@cogeco.ca.

Shawn Chickowski, A.Sc.T., is Niagara Chapter Chair: niagara-chapter@oacett.org

Toronto East Chapter
The Toronto East Chapter AGM was held on May 25, 2009 at the Scarborough Civic Centre. Our new executive members are as follows:

Chapter Chair: Pasha Mohammed, C.Tech.,
Vice-Chair: Clive Banton, C.E.T.
Treasurer: Jose Catilo, C.E.T.
Secretary: Peter Luong
College Liaison: Arulvathany Sivaskandarajah, C.Tech.

Pembroke Chapter
Congratulations to Jennifer Boucher, recipient of the Algonquin College OACETT Award, presented by Pembroke Chapter Secretary Kathy Prescott. Congratulations also go out to all chapter members who successfully passed the Professional Practice Exam recently.

Please note that the Rideau Canal boat tour has been postponed until September.

Liz Reid, C.Tech. is Pembroke Chapter Chair: liz-reid@geo-logic.ca.

OACETT Professional Practice Exam

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Write your Professional Practice Exam in 2009.

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Once you apply, OACETT will send you the study outline and study manual. An optional seminar is available to help you prepare.

Please apply at least six weeks in advance.
JOIN US FOR THE
OACETT HONOURS AND
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Friday, October 2, 2009
The Eglinton Grand, 400 Eglinton Ave. W, Toronto

Cocktails at 6 p.m.
Dinner and Awards Presentation at 7 p.m.
Black tie preferred

Please contact Sarah Halabi at 416-621-9621, ext. 255 or shalabi@oacett.org
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