

The Ontario

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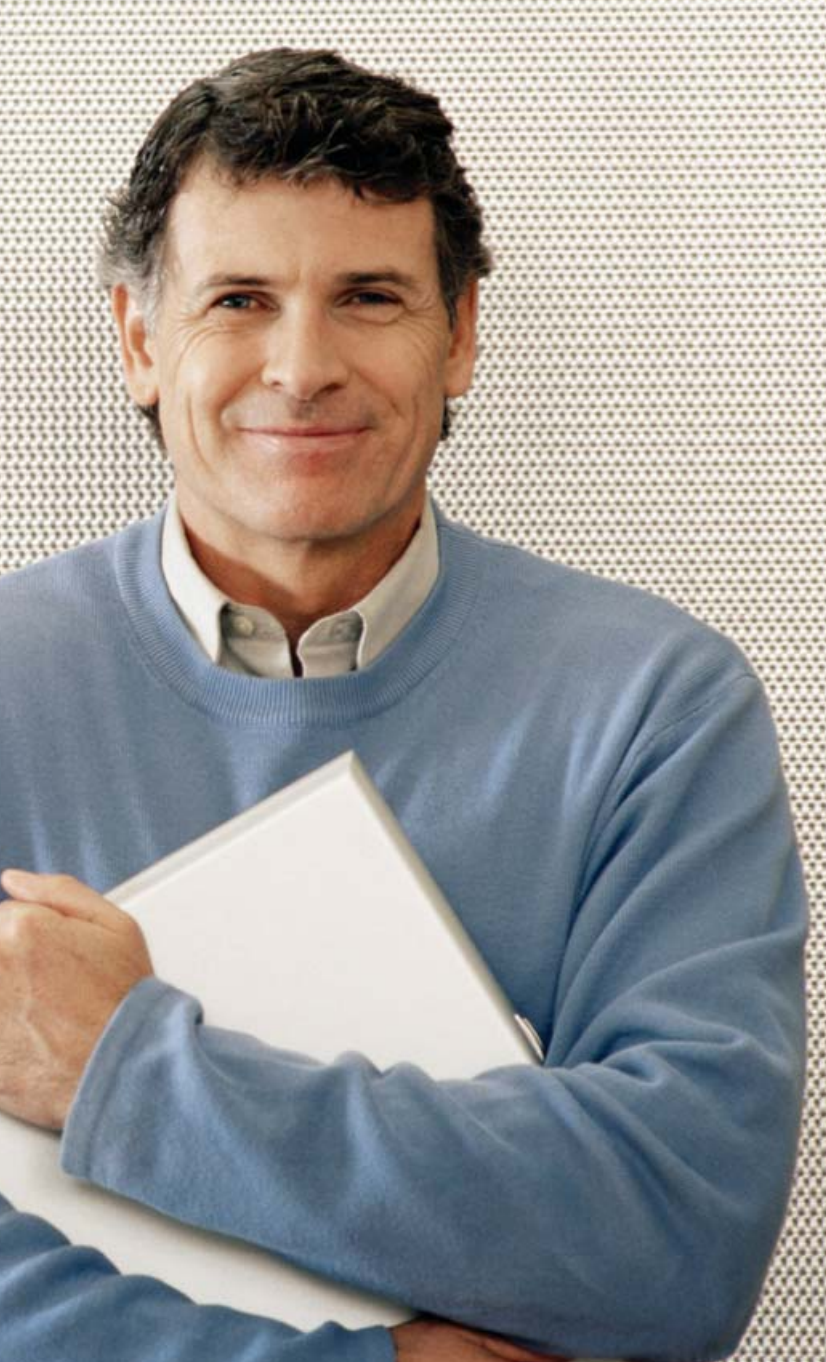
Technologist

A bridge to safety

Infrastructure investment
better than after-the-fact lawsuits



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The past year at a glance

As this issue of *The Ontario Technologist* went to print, our members prepared to cast their vote on By-law 19 at the Annual General Meeting this June. A vote we knew our membership would generally favour based on feedback received on the proposed changes, including the term limits for elected members.

"I am pleased with the work of our Council, committees, chapter volunteers and the OACETT staff this past year."

Your Council is pleased that the process was robust with many voices calling for changes and finding a reasonable accommodation to various points of view. The novel way of using a web-based radio broadcast to inform members attracted strong interest and support for something new. It has served to heighten members' interest and participation, to reduce the daunting task of reading volumes of amendments, and offered a user friendly format, for members and the general public to access the information.

Along the same theme of finding new ways to do business, the response from the membership concerning our withdrawal from the Canadian Council

of Technicians and Technologists has been muted with many, including our colleges, holding in reserve any comments pending more details. We are working hard to ensure the transition to a new national model focused on fewer priorities and a much lower cost is seamless for all concerned. The architecture for a new national partnership has been developed in draft and is being discussed and debated.

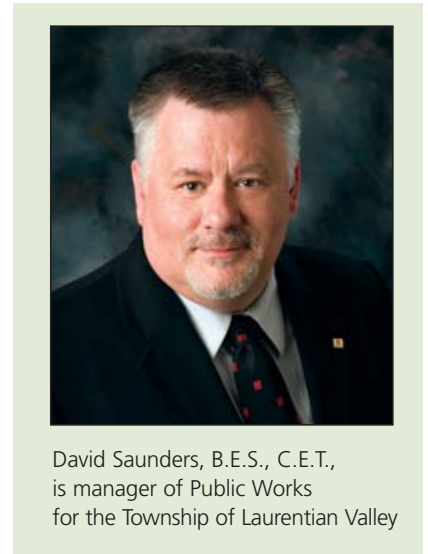
For an overview of the proposed new national model, please see the article on page 9 of this issue.

I am pleased with the work of our Council, committees, chapter volunteers and the OACETT staff this past year, accomplishments which were reported at this year's Annual General Meeting.

As a performance driven Association, certified members now represent 65 per cent of total membership versus 60 per cent five years ago which highlights the value proposition for certification.

Students, internationally trained professionals and total membership numbers continue to increase, which has been offsetting the impact of an aging membership as more members retire. The number of women in OACETT continues to be low at about seven per cent, but efforts are underway to improve participation.

Lastly, our finances are solid, show-



David Saunders, B.E.S., C.E.T., is manager of Public Works for the Township of Laurentian Valley

ing continued strength as we build our reserves, moderate the cost of membership and target strategic investments in the coming years.

I have enjoyed my first year as your President and look forward to the next year as we begin the process of renewal. As always, your thoughts and comments are appreciated at president@oacett.org.

Sincerely,

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



The Ontario Association of Certified Engineering Technicians and Technologists, a self-governing, non-profit organization, maintains standards of excellence in the practice of engineering and applied-science technology in Ontario. Founded in 1957, the Association became provincially legislated in 1984, and has statutory powers and responsibilities. OACETT is a constituent member of a national organization, the Canadian Council of Technicians and Technologists.

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Calendar of events

June 21 – 25**IEA Interim Meeting**

Sheraton Ottawa Hotel, Ottawa

www.washingtonaccord.org/IEAM2010.cfm**July 15 – 17****The 2nd IASTED International Conference on Environmental Management and Engineering**

Banff, Alberta

www.iasted.org/conferences/home-699.html**July 25 – 29****9th US National and 10th Canadian Conference on Earthquake Engineering: Reaching Beyond Borders**

Toronto

<http://2010eqconf.org/>**August 3 – 6****8th International Conference on Short and Medium Span Bridges**

Niagara Falls, Ontario

www.bridgeconference2010.com**August 15 – 18****Association of Municipalities of Ontario Annual Conference**

Caesars Windsor Hotel, Windsor, Ontario

www.amo.on.cafrom the **editor**

BY MELISSA THURLOW

Preparing for a knowledge economy

We just held another successful Annual General Meeting and Conference in Huntsville from June 3-5. Our group of over 150 delegates heard from Dr. Rick Miner who discussed Ontario's labour market future and the trend toward a knowledge or innovation economy. Dr. Miner's research points to 800,000 job vacancies by 2016 and almost 2 million by 2031. Reports estimate that between 65 and 81 per cent of our workforce will require education beyond a high school diploma to fill job needs.

OACETT members all have at least a college diploma but the need to constantly upgrade skills can not be ignored. OACETT offers professional development opportunities and a Record of Continuous Learning to chart your activities. Let me know how you are staying current in your professional development and planning for the future.

We are currently processing award entries for our 2009/2010 OACETT Provincial Awards. The deadline for this year's awards is December 31, 2010 and I urge you to submit a nomination for a person, organization or project that has made an outstanding contribution to engineering technology. In this issue, we have a feature article from one of our previous award winners, AMEC. They won for their work on the construction of Ontario's Victor Diamond Mine that is profiled in the article.

As part of the work of the recently formed Women in Technology Committee, we will be profiling women who have been successful in the field of engineering technology in an upcoming issue. If you or a woman you know has had great achievements, or has overcome great obstacles in the field, send me a line. As women are an underrepresented group within OACETT's membership, it's important for us to show young students and prospective members the great work that our female members do in the field.

I am always interested in your feedback and story ideas. You can contact me at editor@oacett.org or 416-621-9621, Ext. 228.

Financial Statements

OACETT's audited financial statements are available online for members to review: www.oacett.org

Tell your story

The Ontario Technologist welcomes contributions to the association magazine from members, industry, academia and other experts. If you would like to contribute an article or have an idea for a story, please contact the editor, Melissa Thurlow, at 416-621-9621, ext. 228, or editor@oacett.org.



EPIC Educational Program Innovations Centre



Upcoming Course Schedule	Location	2010		
		Jun	Sept	Oct
Civil				
Managing Snow and Deicing Operations	Ottawa		13-14	
Comprehensive Review of Culvert, Open Channel and Storm Sewer Design	Ottawa		16-17	
Planning, Design and Rehabilitation of Bridges	Mississauga		27-30	
Understanding Mechanisms of Deterioration and Developing Effective Inspection, Evaluation and Repair Strategies for Ageing Concrete Structures (3 days)	Ottawa		29	1
Foundations of Construction Law	Mississauga			14-15
Infrastructure Asset Management: A Strategic Approach Toward Sustainability	Mississauga			18-19
Electrical				
Ontario Electrical Safety Code (2009)	Mississauga			4-5
Control Systems: From Fundamentals to Hands On Rapid Controls Prototyping	Mississauga			18-19
Modern Power System Protective Relaying	Mississauga			20-22
Environmental				
Achieving Water Quality Standards by Effective Stormwater Management	Mississauga		20-21	
Environmental Site Assessment and Remediation	Mississauga			4-5
Understanding Environmental Regulations	Mississauga			13-15
Industrial & Mechanical				
Energy Management for Commercial and Institutional Buildings	Mississauga	24-25		
Safety Programmable Logic Controllers (SPLCs) - Design, Review and Compliance with Current Industry Standards	Mississauga		21-22	
Cost Reduction Applications in Manufacturing	Mississauga			4-6
Transport of Solids - Hydraulic and Pneumatic Conveying	Mississauga			6-8
Pre-Start Health and Safety Review	Mississauga			22

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Celebrating 25, 40 and 50 years of membership!

This listing represents those who have reached their milestone between February 20, 2010 and April 21, 2010.

25-year members

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Dennis Bordignon, C.E.T.
Victor Bragues, C.E.T.
James Brown, C.E.T.
Steven Brown, C.E.T.
Barnett Bullock
Colin Byrom, C.E.T.
Trevor Carter, C.E.T.
Donald Chambers, C.E.T.
Dean Charran, C.E.T.
Paul Clancy, C.E.T.
David Collings, C.E.T.
John Corrigan, C.E.T.
James Cox, C.E.T.
Edward Curtis
Leo Cusumano, C.E.T.
Gary De Pooter, C.E.T.
Kevin Denomme
Gilbert Desilets, C.E.T.
Glenn Dixon, C.E.T.
Charles Dodson, C.E.T.
William Dryland, C.E.T.
Joseph Dubaich, C.E.T.
Luc Dugal, C.E.T.
Ronald Dunn, C.E.T.
Neil Durnan, C.E.T.
Philip Dwyer, C.E.T.
Colin Eccles, C.E.T.
John Edwin, C.E.T.
Domenic Evangelista, C.E.T.
Kenneth Frederick, C.E.T.
Jeffrey Garner, C.E.T.
Peter German, C.E.T.
John Griffith, C.E.T.
Mike Gryschuk, C.E.T.
Sunil Gurnani, C.E.T.
Daniel Haggerty, C.E.T.
Jyotindra Harduar, C.E.T.
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David Harris, C.E.T.
Robert Harvey, C.E.T.
Keith Henriques
Wayne Hewison, C.E.T.
John Hogbin, C.E.T.
Steve Johnston, C.E.T.
E. K Jolly, C.E.T.
Leslie Kalmar, C.E.T.

Fiaz Kara, C.E.T.
Robert Kilgour, C.Tech.
John Koeman, C.E.T.
Paul Kovacs, C.E.T.
John Kuchta, C.E.T.
Stephen Kyle, C.E.T.
Pierre LaBelle, C.E.T.
Martin Larkin, C.E.T.
Charles Lewis, C.E.T.
Margaret Linklater, C.E.T.
Anthony Longo, C.E.T.
Robert Mackenzie, C.E.T.
Pasquale Masnaghi, C.E.T.
Gregory McAlpine, C.E.T.
Peter McGhee, CST
William McLardy, C.E.T.
Scott Miller, C.E.T.
Zorko Milutinovich, C.E.T.
John Mohle, C.E.T.
Richard Morawietz, C.E.T.
Ronald Morissette, C.E.T.
Peter Murray, C.E.T.
Michael Neary, C.E.T.
Ronald Newman, C.E.T.
B S Norbett, C.E.T.
N. T. Norton, CST
Gino Nucifora
Philip Oliva, C.E.T.
Anthony Olive, C.E.T.
John Paraschos
Michael Parent, C.E.T.
Alexander Parker, C.E.T.
Mark Parris, C.E.T.
George Pellarin, C.E.T.
Joseph Pendlebury, C.E.T.
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Jayne Smith, C.E.T.
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Michael Spiers, C.E.T.
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Vernon Taylor, C.E.T.
Marcus Tevyaw, C.E.T.
Joseph Tibbetts, C.E.T.
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Joseph Tuskin, C.E.T.
Edwin Unsworth, C.E.T.
Olivio Vacca
Henry Van Gameren, C.E.T.
Dean Verhaeghe, C.E.T.
Usufbhai Vhora, C.E.T.
Peter Viveen, C.E.T.
Steven Vokey, C.E.T.
Kuo-Hua Wang, C.E.T.
Peter Warnica, C.E.T.
Craig Wilkens, C.E.T.
Edmond Wong, C.E.T.

40-year members

Ronald Bateman, C.E.T.
Viktor Besenscheck, C.E.T.
James Bleakley, C.E.T.
Wm Boston, C.E.T.
Richard Bourque, C.E.T.
Warren Carson, C.E.T.
Robert Cooney, C.E.T.
Donald Crowell, C.E.T.
Luigi Di Michele, C.E.T.
Edward Dunn, C.E.T.
James Fearman, C.E.T.
Luis Fermin, C.E.T.
Olivian Frank, C.E.T.
Bernd Freisenhausen, C.E.T.
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Walter Hein, C.E.T.
Zdenek Henes, C.E.T.
Alphonse Jacobs, C.E.T.
Eric Janhunnen, C.E.T.
Edward Jones, C.E.T.
Prabhat Kapur, C.E.T.
Wm Kedziora, C.E.T.

Hans-Dieter Keuthen, C.E.T.
Noor-Uddin Khan, C.E.T.
Herbert Kikuta, C.E.T.
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Jeffrey Lowe, C.E.T.
Mark Maepea, C.E.T.
A. S Mahood, C.E.T.
Louis Maier, C.E.T.
William Manning, C.E.T.
Peter Marsh, C.E.T.
George Marshall, C.E.T.
Wallace Mason, C.E.T.
S. M Mayers, C.E.T.
James McGrath, C.E.T.
G M McHenry, C.E.T.
K Mehlenbacher, C.E.T.
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50-year members

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John Colville, C.E.T.
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John Grimes, C.E.T.
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Lyll Smith, C.E.T.
Paul Turewich, C.E.T.
Jaroslaw Zastawny, C.E.T.

The future of Engineering and Engineering Technology

National Engineering Month

BY SONYA AGNEW

Since 1992, National Engineering Month (NEM) has been celebrating engineering excellence across Canada and encouraging young people to consider engineering and engineering technology as a career choice. Each year during March, provinces and territories choose one week in the month for their particular celebrations. In Ontario, the National Engineering Week Steering Committee (NEWOSC) chose February 27 to March 7, 2010.

Building upon the success of last year's program with Toronto Public Libraries, presentations by Engineers Without Borders (EWB) were made at 30 branches across the GTA. Over 1000 students in grades five to nine participated in an interactive workshop designed to raise awareness about "Water for the World" – how Canadians can do their part in protecting and managing our most valuable resource.

K'NEX Bridge Building Workshops were held at four Science Centres and museums in Kitchener, London, Sudbury and Toronto, with volunteers helping thousands of students and their parents build bridges in this very popular competition.

New this year was the Engineering Students Society's Council of Ontario (ESSCO) Rube Goldberg Machine built by seven Ontario Engineering Societies connected in real-time over the Internet and culminating at the Ontario Science Centre in Toronto. You can view it here: <http://bit.ly/d59c4p>

The Ontario Association of Certified Engineering Technicians and Technologists (OACETT) chapters held activities and events for NEM organized and run by dedicated volunteers. Examples include:



- The London Chapter co-hosted with the London Chapter of Professional Engineers Canada (PEO) a hands-on technology day for Guides and Scouts with interactive displays, technical demonstrations, indoor and outdoor challenges and a bridge-busting competition;

- The Sudbury Chapter invited students from Cambrian College and College Boreal to participate in their first Robot Building Competition.

"We want to thank our volunteers for the dedication and enthusiasm they bring to NEM. It makes our week of celebrat-

Building upon the success of last year's program...over 1000 students in grades five to nine participated in an interactive workshop designed to raise awareness about "Water for the World" – how Canadians can do their part in protecting and managing our most valuable resource.

- The Durham Chapter and the Lake Ontario Chapter of PEO invited students from grades 5 to 8 in the Durham Region School Board to participate in a Popsicle stick bridge-building contest;

- The Peterborough Chapters of OACETT and PEO, and the Institute of Electrical and Electronic Engineers invited local students to participate in the design and construction of a dam;

ing engineering so successful," said Holly Anderson, P.Eng., NEWOSC Chair.

The five members of NEWOSC are the Ontario Society of Professional Engineers (OSPE), Professional Engineers Ontario (PEO), Consulting Engineers of Ontario (CEO), the Ontario Association of Certified Engineering Technicians and Technologists (OACETT) and the Ontario Science Centre.

CCTT withdrawal update

As per earlier announcements, OACETT has formally notified the Canadian Council of Technicians and Technologists (CCTT) of its intent to withdraw from the Federation, along with ASTTBC (British Columbia), ASET (Alberta), SASTT (Saskatchewan) and ACETTPEI (Prince Edward Island). We join Quebec which withdrew in 2009. Combined, this represents about 85 per cent of the membership in Canada.

OACETT in partnership with ASET, ASTTBC and SASTT is moving quickly to develop the mechanics for a new national partnership: one that is focused on a very limited number of common interests such as national accreditation; consensus decision-making; and a reduction of at least 50 per cent in annual budget. Subject to approval from Council, two new national organizations will be created to be known tentatively as Technology Professionals Canada (for the joint representation of common provincial interests) and Technology Accreditation Cana-

da (for the national accreditation of college and institute academic programs in technology). Full implementation is expected within the year. More details can be found on our website at www.oacett.org.

Senior staff is currently engaged in discussions with stakeholders, including our colleges, to explain, consult and invite their participation in this promising new partnership. In the meantime, until OACETT's resignation takes formal effect in October 2010, we remain a member of CCTT and we will carry out all of our fiduciary responsibilities concerning payment of dues and participation on various boards and committees. It is our expectation that we will continue to support and cooperate in the delivery of critically important services, for example, to the colleges in the delivery of national accreditation.

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

David Thomson
Executive Director

MAKING THE MOVE TO 3D?

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Members on the move

James Anderson, C.Tech., RPT, has started his own electrical solutions company. Advanced and Effective Training and Technical Solutions focuses on providing training to the electrical industry in safety, regulatory compliance, health and safety programs, as well as policies and procedures. It also gives technical solutions relating to the electrical industry, from power system studies to automation.

Christopher Braet, A.Sc.T., has started a new job with SNC Lavalin as an Instrumentation and Controls Technologist in the Chemicals and Petroleum Division. Braet assists with the design of instrument and controls systems for the petrochemical industry. He previously worked for Sarnia Fluid System Technologies Ltd. as an Instrumentation and Control Systems Integrator.

Rosanno Catalan, C.E.T., is now working for Bruce Power as the Section Manager, Regulatory and Licensing Projects in Tiverton. He is responsible for regulator interface, managing and spearheading all regulatory and licensing work for projects, including new nuclear power plant construction and commissioning along with other large infrastructure projects designated to the Nuclear Oversight and Regulatory Affairs group within Bruce Power.

Kevin Fox, A.Sc.T., is now working for Schorn Consultants Inc. as a Structural Technologist. In this role, he produces structural working drawings for new constructions, additions and renovations to industrial, commercial and residential projects. Fox also creates shop drawings for secondary structural construction components and assists in the structural design of various buildings. He formerly worked for MTE Consultants Inc. as a CAD Technologist in the Building Structures Division.

Ronrico Garcia, C.E.T., was recently promoted from Maintenance Specialist to Maintenance Team Lead at SMART Technologies ULC. In this role he supervises maintenance specialists and back-up support maintenance assistants. In addition, Garcia is responsible for ensuring adequate risk management of manufacturing equipment and assets, increasing overall plant effectiveness by implementing processes and improving existing maintenance processes as needed, and supporting all aspects of the maintenance processes.

Christopher Gaunt, C.E.T., has joined Oakville Hydro Electricity Distribution Inc. as an Engineering Technologist, Electrical. His new position consists of improving the reliability, safety, efficiency and cost effectiveness of the Town of Oakville's overhead and underground hydro distribution systems through redesign and rebuilding. Gaunt previously worked as a Project Coordinator in underground utility plant construction management at Carillion Canada Inc.

Bob Hember is on contract with the Ontario Clean Water Agency developing their wastewater operator training program. After the contract, he plans to continue with the business of providing training and curriculum development as the sole proprietor of Water and Sewage Operator Training (WASOT). Hember was a

military engineer for 20 years and is a member of the Canadian Military Engineers and the American Water Works Association.

Jacques (Jake) Jodouin, C.E.T., L.E.L., has attained a Limited Licence with PEO for Mine Ventilation and has been appointed Senior Engineer, Ventilation for the Canadian operations of the Mines Technical Support Group of Vale Inco. In this role, he is responsible for designs, evaluations, reporting and supervision associated with mine ventilation systems. Over the past 16 years, Jodouin has worked as an Engineering Technologist, Mine Systems Technologist, Ventilation Specialist and Senior Ventilation Specialist.

Hemang Patel, C.Tech., is now a Quality Engineer with the MPT Precision Technologies Division of Magna Powertrain. In this new position, Patel trains and supports employees, liaises with engineers and customers, works with suppliers and handles Request for Quotes. He is also involved in the preparation of control plans, the production part approval process and quality performance.

José Pereira, A.Sc.T., Tech., OAAAS, has started working for the House of Commons as an Architect and Engineering Coordinator, Major Projects. He is responsible for the delivery of architectural and engineering services associated with various construction projects within the House of Commons construction and renovation program. He also ensures architectural and engineering activities are performed, managed, monitored and reported during all phases of the project and delivered according to Major Projects delivery framework. Prior to this, he was the Senior Technologist at Erskine Dredge and Associate Architects Inc.

Sheldon Raycraft, A.Sc.T., has gained new employment as an Electrical Safety Specialist at Wintek Engineering Ltd. in Kitchener-Waterloo. After working as a Project Coordinator for over 13 years at the Campbell Company of Canada, this job change gives him the opportunity to work with several electrical engineering professionals. His work consists of arc flash analysis, the design of distribution systems and step voltage and ground potential rise calculations.

David Saunders, B.E.S., C.E.T. is now working for the Township of Laurentian Valley as Manager of Public Works. Previously he worked for six years as the Manager of Public Works & Operations for the Town of Gravenhurst.

Jamie Stieva, A.Sc.T., has been hired as a Construction Technologist, Rail at AECOM. Stieva creates preliminary designs, prepares tenders and specifications, and conducts condition assessments and recommendations on corrective procedures. Stieva also handles the administration of contracts. Before joining AECOM, he worked as a Project Coordinator at Carillion Construction for six years.

We want to hear from other members who have recently changed jobs, received a promotion, etc. Send in your submissions to the editor at info@oacett.org.

Skills Canada-Ontario recognizes OACETT members



Skills Canada-Ontario honoured three OACETT members with the 2010 Klaus Woerner Skills Trade Hall of Fame award at the “Building Futures, One Dream at a Time” Fund-raising Gala on March 5.

John Bierling, C.E.T., Joseph Ciccone, C.E.T., and Sharon Reid, C.Tech., each received the award in recognition of the significant contributions they have made in the advancements of skilled trades and technologies.

Since 2006, this award has been presented in memory of Klaus Woerner, a gifted engineer, trailblazer for skilled trades, entrepreneur and business leader. In all, nine distinguished recipients were inducted into the hall of fame this year.

Volunteers are honoured for their contributions to the advancement of skilled trades and technologies.

Sharon Reid was nominated for her dedication to the profession and exceptional service as a volunteer. Sharon is chair of OACETT’s Women in Technology Committee and the association’s Professional Affairs and Service Board (PASB) Regional Councillor in the eastern region. She has over 20 years experience in the engineering technology industry and has spent most of her career working in instrumentation and calibration testing, where she has earned a reputation as a problem solver who provides dependable service and timely results.

As a senior technician at Canadian Instrumentation Services Group (CISG) Sharon has made significant contributions to projects throughout Canada, the U.S., India, China and Sweden. In her spare time, she invests in the future of young adults. As a Girl Guide leader and OACETT volunteer she passes on her knowledge and expertise regarding careers in engineering technology.

She spearheads the “Investigating Careers” component of the Girl Guide programs and is extensively involved in National Engineering Month and regional science fairs. Sharon earned her Electronics Engineering Technician diploma at Fleming College and has been an OACETT member for eight years.

A long-standing OACETT member, John Bierling is a continuing education instructor at Fanshawe College of Applied Arts and Technology, where he has been teaching a wide variety of mechanical engineering technology courses since 2004. John received the Klaus Woerner award in recognition of his dedication to the profession and enthusiasm for teaching future engineering technicians and technologists. Whether his students are working on becoming certified or upgrading their skills, John gives them the information they need to make informed career choices and supports them every step of the way.

He volunteers his time organizing events that help young people experience the world of technology first-hand. Each year the London Chapter of OACETT, in conjunction with the London Chapter of Professional Engineers Ontario (PEO), host GETSET, a hands-on technology day for Girl

▶ continued on page 12

PIPE SHIELD RAISES THE BAR

Our Pipe Shield BELT Blown Epoxy Lining Technology Software has won an award from the Consulting Engineers of Ontario.



The development of our lining software started several years ago and has positioned Pipe Shield as the world leader in the BELT pipe lining industry.

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► continued from page 11

Guides and Scouts in the London area. Beyond his role as an organizer, John is known to give personal examples that, along with the enthusiasm, have made this event a memorable one for participants. He is also a champion of Skills Canada community-based projects and gets involved in their initiatives whenever possible. Bierling is the chair of OACETT's London Chapter and previously served as the association's PASB regional councillor in the western region.

Joseph Ciccone is the owner of Wirecomm North Inc. He received the Klaus Woerner award in recognition of his volunteer service, outstanding technical achievements in engineering technology and his success as an entrepreneur. Joseph's company is a major contractor of aerial and underground construction projects and employs 76 workers in all aspects of construction, installation and service to the telecommunication and general utility industry. Before starting the company, Joseph worked at Graham Cable as the director of engineering for close to 20 years. He was instrumental in developing training curriculum and working with staff to help them reach their full potential.

Joseph volunteers his time inspiring and motivating others, especially youth, toward a career in engineering technology. He is active on a number of committees that encourage youth including the Education Committee of York Chapter where he organizes and carries out design challenges for grade 7 and 8 students. He is also involved in the York Region Sci-Tech Fair at Seneca College and chaperones youth representing York region at the Canada-Wide Science Fair. Joseph is currently the vice-chair of OACETT's York Chapter and has volunteered with the Association for 22 years.



Ensure you are receiving the information that you need from OACETT. Simply login to the members' section of the OACETT website and click on **"Update your personal information."**

OACETT member appointed President of Ontario Good Roads Association

The Ontario Good Roads Association (OGRA) has appointed John Paul Johnson, C.E.T., C.S.T., as its new President. Johnson, an OGRA board member since 2003, has held a number of progressive positions including chair of member services, chair of policy, first vice-president and second vice-president.



John Paul Johnson, C.E.T., C.S.T.

Johnson began his career with the County of Wellington as an engineering technician/surveyor, and eventually moved his way up to the senior position of operations manager, in charge of the maintenance activities on 1400 kilometres of rural highways, 200 bridges and box culverts, eight works garages and associated equipment. He is highly regarded for developing the county's winter maintenance program which has become a model for many municipalities.

He is the founding member and immediate past chair of the Ontario Road Salt Management Group (ORSMG); chair of the training sub-committee of ORSMG; a member of Environment Canada Multi-Stakeholders Working Committee on Salt Management; and a 26 year member of OACETT. Johnson currently represents OGRA on the Environment Canada Salt Management Committee and is the di-

rector of Snow School, an OGRA winter maintenance training program.

As one of Canada's largest municipal associations, OGRA represents the transportation and public works-related concerns of 445 municipalities and many First Nation communities of Ontario. For over 100 years, OGRA has aided municipalities in their efforts to provide efficient and effective transportation systems.

Johnson will work closely with the

board of directors to fulfill a mandate representing the infrastructure interests of municipalities through advocacy, consultation, training and the delivery of identified services.

He intends to draw on his strong technical background and extensive committee experience to help the organization engage more effectively with provincial government staff, in particular, the Ministry of Transportation.


NOW AVAILABLE ONLINE! Professional Practice Exam Seminar



OACETT is now offering the Professional Practice Seminar online. This alternative to the two-day in-person seminar allows participants to register, complete the seminar and take a practice exam from their home or office.

This online option will benefit members who are unable to travel to the in-person seminar which is normally held in the GTA and Kitchener, as well as those members who prefer a self-directed approach to learning. Once a member has registered for the seminar, they will have one month to complete it.

There will be an online question and answer board that is constantly monitored for anyone who has questions while completing the seminar. The board will be accessible to all members who are enrolled in the online version so that they can benefit from questions and answers from other students.

OACETT will continue to deliver the two-day in-person seminar for those who prefer an instructor-led experience. The in-person seminar is offered four times a year and consistently sells out. Now members won't have to wait for a specific date to take it, they can sign up for the online seminar anytime. 

LET and Certificate of Authorization

After over a decade of development, with each OACETT President nurturing the process, PEO and OACETT were successful in convincing the Ontario government to include in its Omnibus Bill (Bill 68) amendments to the Professional Engineers Act (PEA) to establish the Licensed Engineering Technologist (LET) with a Certificate of Authorization. In effect, Certified Engineering Technologists (C.E.T.s), subject to meeting the requirements, can obtain an LET and the authority to practice independently. The LET license and the certificate of authorization will be issued by PEO to qualified C.E.T.s.

The legislation received first reading on May 17th. Conditional on proclamation, OACETT will be working with PEO to finalize the regulations and develop the application process.

“The LET with independent practice rights has been a policy objective of OACETT for many years,” noted President David Saunders, B.E.S., C.E.T., “We’ve endeavored to provide pathways for members who wish to advance in their professional careers by obtaining a limited license with a defined scope of practice.”

President Saunders attended a media event on May 20th where Minister Chris Bentley, Attorney General announced the bill. Minister Bentley, along with PEO President Diane Free-



OACETT President David Saunders, B.E.S., C.E.T. with (from left) Dr. Eric Hoskins, Minister of Citizenship and Immigration; Diane Freeman, P.Eng., PEO President; and Chris Bentley, Attorney General.

man, P.Eng., acknowledged OACETT’s efforts over the years.

A similar program promoted by OACETT provides limited licenses to certified members in the architectural discipline. The LET is good for productivity, professional development and inter-provincial labour mobility.

For a complete review of Bill 68 and provisions pertaining to the PEA, visit: www.ontla.on.ca/bills/bills-files/39_Parliament/Session2/b068.pdf. 



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Subject Name _____ (as indicated on your Qualifications Assessment) or Area of Specialty:

The technical examination(s) will be written at the OACETT office for those in the Greater Toronto Area. All other candidates will be asked to provide the name, title, address and telephone number of a professional person who will supervise the exam (the candidate's supervisor, a Professional Engineer, C.E.T., or other qualified professional would be suitable). Candidates will also be requested to arrange with the exam supervisor, the time and location for writing the exam and advise OACETT.

Exam Candidate - please complete the following:

I understand this is a contractual undertaking and any examination fees are **non-refundable** and **non-transferable**.

Date: _____ Signature: _____

NOTES ON THE EXAMINATION

Technical exams are self-study. 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.

Payment Type: Cheque/Money Order Visa MasterCard

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A bridge to safety

Infrastructure investment better than

In September 2006, a 20-metre section of a three-lane overpass on Boulevard de la Concorde in Laval collapsed onto Montreal's Autoroute 19, crushing two vehicles and killing five occupants, and seriously injuring six others.

A subsequent inquiry identified inadequate inspections, inattention to the warnings of local citizens, lack of redundancy in the design, contractor error, substandard materials, and a lack of co-ordination between various public sector entities as reasons behind the disaster.

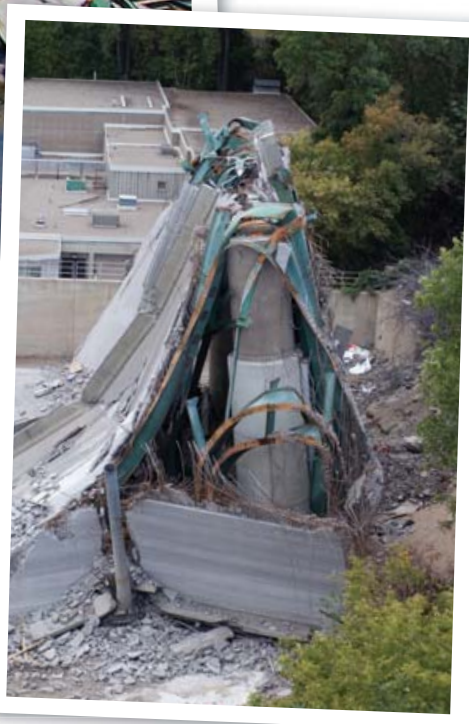
Less than a year later, an eight-lane, steel truss bridge, which carried 140,000 vehicles a day on Interstate 35W across the Mississippi River in Minneapolis collapsed, killing 13 people

and injuring 145. Among the reasons cited for the collapse were the design of a metal plate that was too thin to serve as a junction of several girders, a lack of redundancy, and earlier repairs for stress cracking of the cross girders.

The most significant contributing factor, however, may have been the 575,000 pounds of construction equipment and supplies parked on the bridge as four of the lanes were being resurfaced.

Can it happen here, in Ontario? It already has, although not to the same catastrophic effect.

Commuters using Lakeshore Boulevard in Toronto have at times had to dodge falling concrete from the Gardiner Expressway. And a 19-year-old woman was killed in May 2006



This eight-lane, steel truss bridge on Interstate 35W in Mississippi collapsed, killing 13 people and injuring 145. A metal plate was too thin to serve as a junction for several girders.

steel rebar to protect against freeze/thaw cycles and the application of winter salt.

Referring to Montreal and Minneapolis, Bruce McQuaig, Ontario's Deputy Minister of Transportation (MTO) said, "Whenever one of these events occurs in other jurisdictions, we very carefully take a look to see what the causal factors were, what we can learn from that, and if there are issues that we need to take steps on, here in Ontario."

The Residential and Civil Construction Alliance of Ontario (RCCAO) commissioned a report on the state of Ontario's bridge infrastructure in 2007, in the wake of the Quebec tragedy. Conducted by Marshall Macklin Monaghan, now MMM Group, the report estimated there are 12,000 municipal bridges and 5,400 culverts larger than 3 m in Ontario, in addition to 2,270 provincially owned structures. The report concluded: "There is good reason to believe that the provincial bridge system is safe, but reliable centralized data that would allow us to conclude the same for municipal bridges does not exist."

Andy Manahan, executive director of the RCCAO, encapsulated the key recommendations: "Aside from a central repository of bridge condition data for municipal structures, we recommended MTO ensure all municipal inspections

are completed in the two-year time frame, that a status report identify the 'now' and one- to five-year bridge needs for all Ontario bridges, and that a sustainable, multi-year funding program be established to address the backlog."

The 2009 annual report from Ontario's Auditor General sounded an alarm that insufficient funding and a lack of comprehensive information about municipal bridges had potentially negative implications for public safety. A joint provincial-municipal working group has yet to submit a report on the inventory of municipal bridges and will need until 2011 to sort out roles and responsibilities.

Provincial leadership

The province has shown leadership on the infrastructure it controls. Made-in-Ontario bridge inspection processes, including the MTO's Ontario Structure Inspection Manual (OSIM) have been adopted by Saskatchewan, Manitoba, Nova Scotia, P.E.I. and, in 2008, Quebec. McQuaig declared, "Year after year, Ontario's roads have been found to be the safest in North America. →

after-the-fact lawsuits

when her car crashed into a crater on Municipal Road 3, just off the TransCanada Highway in Worthington, west of Sudbury. After heavy rains, fill had penetrated the walls of a 4.7 m corrugated culvert below the turbid water line, where acidic stream water had corroded the steel, causing the culvert to collapse and leading to a 1 m deep sinkhole.

When public safety is at risk

Aging infrastructure is a critical challenge in Ontario. Most of our bridges and culverts were built in the post-WWII era and are nearing the end of their useful life. Structures built prior to the 1970s did not use air-entrained concrete and coated



Our outstanding record is due to a combination of factors including legislation, infrastructure, planning, design, education and enforcement.”

MTO has a multi-year plan in place for bridge repair and rehabilitation, supported by comprehensive inspection reports. It distinguishes between safety-related concerns and non-emergency maintenance. As Gerry Chaput, chief engineer and director of highway standards explains, “Our inspectors are advised that if there is any safety issue, they take immediate action, and that may even mean closing a highway.”

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The Master of Technology Management (MTM) is an innovative program, the first of its kind in Canada, providing professional development opportunities for busy, working professionals. The program provides the knowledge and skills necessary to manage complex technical operations effectively, deal with the challenges and dynamics of innovation-driven industries, and strategically consider issues encompassing the management of technology. Delivery of this program will begin in September 2010. All courses will be offered fully online, providing students with the opportunity to complete the program on a part-time basis while continuing to work.

Applicants must meet the general admissions requirements of Memorial University's School of Graduate Studies and have a bachelor of technology or other undergraduate degree with appropriate technology and business management courses, normally with two or more years of related work experience. Those wishing to complete the master's degree who are diploma of technology graduates holding appropriate professional certification should first complete the University's online Bachelor of Technology program (www.mi.mun.ca/btech).

Applications are accepted three times a year for September, January and May admission. Applications for September 2010 admission are now being accepted. You can learn more by visiting www.mi.mun.ca/mtm or by calling our Student Recruitment office at 1-800-563-5799 (ext: 0543)



MARINE INSTITUTE



But McQuaig and Chaput are talking about provincial assets only. The same cannot be said for the bridges and culverts under municipal or private responsibility.

Municipal challenges

In the 1990s, the province downloaded thousands of bridges to municipalities without the corresponding funding to care for those assets. Today 67 per cent of all government-owned capital infrastructure assets are owned by municipalities, compared to 38 per cent in 1961. The Public Transportation and Highway Improvement Act R.S.O. 1990 (PTHIA) requires them to conduct thorough bridge inspections every two years under the direction of a professional engineer and in accordance with OSIM. But there is no agency responsible for ensuring these inspections are carried out and the rehabilitation work is performed.

Smaller and rural municipalities are particularly disadvantaged in meeting their PTHIA obligations. As the RCCAO report outlines, “Bridge repair and replacement is expensive due to the spans involved, structural elements, specialized construction equipment, technical expertise, traffic/environmental protection as well as the complex nature of the work itself.” Most small municipalities don't have an engineering department and lack the funding to handle much more than routine maintenance.

With a population of 157,000, Sudbury is hardly a small community. Yet a review following the culvert death revealed 21 culverts in urgent need of repair and 39 more in need of replacement within three years. The 21 were repaired in 2006 at a cost of \$12 million. More than \$10 million is required for the remainder. A court award may add to the bill – the victim's family is suing the City of Greater Sudbury for \$2 million.

While the Ontario government will have invested \$1.65 billion in repair and restoration of its bridges between 2006 and 2013, municipalities are hard-pressed to come up with infrastructure funding amid their other spending priorities such as health and social services.

RCCAO observed that “the tax base of many municipalities cannot accommodate the bridge rehabilitation and reconstruction funding needs without the support of the federal and provincial governments.” The recent announcement by Prime Minister Harper and Premier McGuinty of \$138 million for 43 designated highway, bridge and local road projects across Ontario was dismissed as a “drop in a big bucket” by Mississauga mayor Hazel McCallion. Mississauga alone faces an estimated repair bill of \$1.5 billion for its bridges over the next 20 years.

Exacerbating the inadequacy of federal and provincial funding for municipal bridge repairs is the problem of timing.

The recent \$138 million approval for Ontario within the Infrastructure Stimulus Fund under Canada's \$4 billion Economic Action Plan requires the funds to be spent by March 2011. As the RCCAO points out, “One-time government funding programs are simply not the most efficient means to get the work done. They do not allow for the proper planning and programming that bridge infrastructure rehabilitation requires.”

Progress is being made on the all-important step of establishing a record of all the bridge structures in the province and capturing reliable inspection data. Manahan observed, “The provincial government allocated \$750,000 through the Municipal Data Works (MDW) program to help the Ontario Good Roads Association (OGRA) expedite the creation of the database.” Municipalities signing onto the initiative can use the MDW program to create a full inventory of their assets, track life cycles, monitor their condition and develop asset management plans.

Brampton: Managing on its own

The provincial government’s massive budget deficit does not bode well for municipalities looking to Queen’s Park for help in funding their infrastructure gap. The City of Brampton turned to its own property tax base to address its bridge workload. “We approached Council,” explained Bill Guy, senior operations technician and OACETT member, “and they were very supportive. They understood the safety concerns.”

Out of its inventory of 177 road and park bridges and culverts, Brampton repaired or rebuilt 51 bridges and nine concrete culverts between 2000 and 2009, at a cost of \$12.6 million. It has dealt with all its bridges in serious need of attention and has no safety-critical structures. The rest are being addressed over the next one to five years.

While Brampton is an exemplary municipality in bridge safety, there are still challenges. “Property taxes are not a viable solution for the long term,” Guy admits. “That’s why I’m a proponent of the gas tax. But it should not go to general revenue – it should be put back into roads and transportation infrastructure.”

Brampton has garnered awards from the Ready Mixed Concrete Association of Ontario for rehabilitation of its Church Street Bridge and for a heritage-designated bowstring arch bridge over the Credit River originally constructed in 1928.

In 2008, Anskon Contracting Inc. built a full-depth deck replacement with partial-depth concrete girder repairs. The \$1.8 million project involved protecting and relocating gas, water main and telephone utilities, with all the attendant complexities of co-ordinating multiple agencies. Led by OACETT members Andy Scandolari, C.E.T., Jason Scandolari, C.E.T., and Matthew D’Ovidio, Anskon successfully maintained traffic flow in both directions throughout the 80-day project. They used the saw- and-lift method for demolition of the bridge deck to protect the utilities, and built a temporary access and debris platform over the creek bed to prevent environmental damage.

The importance of inspections and testing

Inspections are the vital link between preventative maintenance and public safety. There are four kinds of inspections a bridge undergoes throughout its lifetime, following the OSIM guidelines: detailed visual inspection every two years; general maintenance inspection in the spring and fall; regular road patrol inspection to spot potential safety issues; and, emergency inspections after vehicle collisions or natural disasters.

Inspectors employ various technologies when testing bridge

components. Techniques include: an ultrasonic and magnetic particle test for non-visible cracks; internal technology testing, where samples of concrete or steel are removed for lab tests; bridge load capacity tests using a special truck with concrete blocks while instruments attached to the bridge record its movements; and, invasive testing involving drilling to the rebar.

The PTHIA calls for inspections to be supervised by a professional engineer. However, Guy believes there are multiple roles for OACETT members in dealing with Ontario’s infrastructure repairs: “Engineering Techs should do the initial inspection, where their expertise with technology can make a difference. They can bring anomalies to the attention of the engineer for

“Engineering technicians and technologists can also be important assets in the inspection of large structures...”

further analysis.” Engineering technicians and technologists can also be important assets in the inspection of large structures, such as St. Catharines’ Garden City Skyway on the QEW or the Yonge Street Bridge on the 401 in Toronto, where the size and complexity of the inspection require a team working over several days.

Looking down the road

New funding models will undoubtedly be part of the solution to our infrastructure gap. Provincial agency Infrastructure Ontario is looking to Alternative Financing & Procurement (AFP) as a method for delivery of public buildings and other structures. One such project is the Windsor-Essex Parkway, the single largest highway investment in Ontario’s history. It will connect Highway 401 to a new international crossing over the Detroit River to Interstate 75 in Michigan.

The benefits of AFPs and public/private partnerships (P3s) include access to private sector capital and expertise, faster completion of projects, and transfer of risk to the private sector. They have been used successfully for roadways in the state of Missouri to bundle the design, construction, financing and maintenance for a holistic approach to asset management.

With some of the busiest highways in North America, bridges are a crucial link in our transportation infrastructure which, in turn, is crucial to this province’s economic competitiveness. It does not make it any easier to find the billions of dollars needed to address our aging infrastructure, of course. But when public safety is at risk, can there be a higher priority?

Preventative expenditures will always cost less than the complicated aftermath of neglect. The last word goes to Manahan: “Governments would be better advised to invest money in infrastructure rather than deal with lawsuits after-the-fact.” ■■■

George Scott is a communications consultant based in Richmond Hill, Ontario.

When people think of diamond mining, they sometimes picture Snow White's seven dwarfs singing "Hi-Ho!" as they enter a tunnel carrying pick axes and lanterns, or tourists digging for diamonds at Crater of Diamonds State Park in Arkansas, but the truth is these images could not be further from reality.

Unearthing these precious gemstones and turning them into the world's most beautiful jewelry is not easy. It involves a complex process that in some cases can present social, environmental and logistic challenges such as those faced in the construction of the Victor Diamond Mine, Ontario's first diamond mine.

The Victor Diamond Mine is Ontario's most remote and inaccessible mine, located approximately 90 km west of the First Nation community of Attawapiskat, in the James Bay Lowlands. The development of the \$1 billion mine project began in 2002 when De Beers Canada contracted AMEC to build it.

Emphasis was placed on ensuring the First Nations in the Attawapiskat community would benefit from the development. Assembly of First Nations' National Chief Phil Fontaine praised the mine as "good for First Nations and good for business – a model for all across the country."

Major construction and commissioning

for production ramp-up was completed in 15 months, two months faster than any other Canadian diamond mine. The mine, which began production in January 2008 came in under budget, nine months ahead of schedule, and with an outstanding safety record of 3.7 million consecutive hours without a lost-time injury.

Winter Road Logistics

Given the remote location, construction was challenging and required support systems and facilities. The scope of the facilities included an open pit mine, processing plant, workshops, warehouse, fuel storage and pit dewatering system along with an accommodation complex, offices and airstrip. 3D engineering tools used made the project easy to build and eliminated potential construction interferences in the field.

Since no permanent roads lead to the Victor site, the main logistical challenge was delivering an entire year's worth of goods and equipment on a 380 km temporary ice-road. To address this, a stretch of winter road was constructed in two sections – one from Moosonee to Attawapiskat, and another between Attawapiskat and the Victor site.

During the peak construction season of 2007, approximately 2,000 truckloads and loads of fuel traveled over the winter road in a period of 42 days. Light

voluminous materials such as HDPE piping were also shipped via barge up the James Bay to Attawapiskat. Air passenger transport and rail services also helped to move the project along.

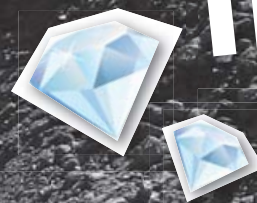
Equipment was shipped and construction materials arrived on site in March 2007, but construction was not largely completed until January 2008. For the rest of the construction period, the truckloads of freight needed storage and a process that would not interfere with the pace of construction. This was accomplished through the use of radio frequency identification (RFID) technology which tagged each container and then scanned them on arrival, tracking the project's assets. The equipment and materials were then logged into a database and cross-referenced to the appropriate container, allowing logistics personnel to locate and access any item within 24 hours of a request.

Subsurface conditions at Victor include fen and bog muskeg over a variable thickness of mineral soil, and shattered limestone bedrock at shallow depths. Drainage is poor, with the groundwater table virtually at surface level. The underlying bedrock contains numerous pockets of weak, fractured rock and karst voids (sinkholes) filled with marine clay. This presented a major challenge

The Victor Diamond Project:

UNCOVERING THE

INTH



for foundation and roadway design.

A combination of driven steel piles and shallow spread footings on compacted engineered fill was chosen to support the mine's main buildings and process equipment. Complex geotechnical analysis was carried out to reduce bearing capacities which was necessary to identify the presence of weak zones in the bedrock and the down-drag forces created by permanent dewatering of the mine pit. The numerous karst features required site workers to make on-the-spot decisions regarding the competence of the exposed rock, removal of weak zones, and dental concreting before placing the engineered fill.

A "floating" method to build the site roads was specified. Selected rock fill was placed directly on top of the muskeg, with little or no clearing and stripping. This was easier to construct and more cost-effective than conventional excavation and replacement methods. The 1200 m long airstrip was also constructed by removing the muskeg veneer and placing and compacting rock fill on the exposed clay and gravel subsurface.

The subarctic weather conditions posed a health and safety challenge at the Victor site. There were many wide rivers to cross – each one requiring a

continuous program of building and monitoring the ice bridges. Once the thin layer of natural ice was formed, pumps were used to create ice, increasing the thickness of the ice bridge. Technicians monitored the thickness of ice regularly to ensure that it was thick enough to support the various loads.

Safety measures were taken to engage workers and contractors of possible dangers on site. Before they unloaded off the bus that transported them from the Victor airstrip to camp, personnel were greeted by the construction manager who spent 10 minutes advising them of the new and current hazards.

Minimizing the impact of mining on the natural landscape and ensuring a safe and healthy environment for the communities in the Victor mine surrounding areas was precedent. After many environmental assessments and negotiating more than 150 environmental approvals, the mine received ISO 14001 certification for its environmental management system and is the first Canadian mine to do so. Over 100 public meetings with First Nations people were held during the federal environmental assessment process. Attawapiskat First Nations and technical advisors reviewed the permit applications and incorporated their comments into the final applications. The

environmental plan addressed water, fisheries and waste management, as well as wildlife and habitat displacement. The objective was to identify and mitigate impacts during planning and operation, and to leave behind a post-mining environment that is productive, self-sustaining and hazard-free.

Mining to recovery

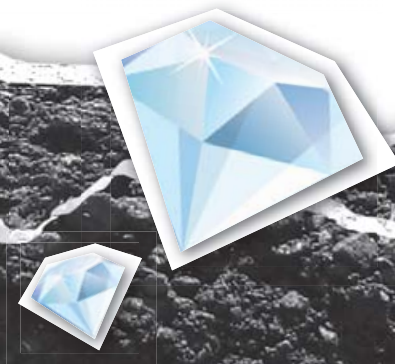
The mining process at the Victor mine is multifaceted and requires a number of steps before the diamonds can be commercialized. The surface of the land around the mine is largely muskeg, a bog-like soil found in boreal and arctic areas. Below the surface are pipes of a material known as kimberlite.

Kimberlite is volcanic magma which is hardened below the surface of the earth. The magma originates in the uppermost portion of the earth's mantle, where diamonds are formed, and transports diamonds and other minerals towards the surface. As it approaches the surface, it cools and hardens resulting in a kimberlite deposit. Kimberlite does not always contain diamonds; however diamonds are always accompanied by kimberlite.

Ore is mined from the Victor open pit within a shallow deposit of 15 hectares in area. Although an open pit appears to be a mere hole in the ground, a large amount of

diamonds

THE ROUGH




engineering and applied science technology contributes to the creation of the pit.

The Victor mine ore contains about one diamond for every 100 tonnes of material which is transferred to a process

contain valuable diamonds or not dense enough to contain diamonds is rejected. Final separation is based on some unique properties of diamonds under exposure to X-ray radiation and laser light.

claimed, leaving no permanent reminder that a mine was ever in the area.

As no harmful chemicals are consumed during operation, the plant will not leave a legacy of hazardous waste or a polluted water table. The goal of reclamation will be to leave the site as it was before mining took place.

By the time the mine closes, Victor will have produced over 7,000,000 carats. Over 500 employees and contractors will have maneuvered heavy equipment and operated a 7,000 tonne per day process plant, a stark contrast to the image of Snow White's seven dwarfs, merrily digging for diamonds. 



A diamond mine should be designed so that nature can safely reclaim the space after its useful life.

plant. The plant separates the diamonds from the ore and ultimately produces close to 600,000 carats of diamonds per year from 2.7 million tonnes of ore.

The ore is transported to a processing plant where the diamonds are separated from the waste material. The ore is crushed to a more regular and manageable size, while material too small to

Mine closure

In 2020, after 12 years of production, mining of the current pit at Victor will be complete. At that time, coarse processed material, stockpiled after leaving the process plant, will be used to fill in the pit, and any overburden that was stripped before mining commenced will be replaced. The pit area will be re-

Adam Hempstock is a Process Engineer-in-Training with AMEC, who provided commissioning support for the Victor diamond plant and related utilities. AMEC won an OACETT award in 2009 for Outstanding Technical Achievement for their work on the Victor Diamond Mine.



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new members

RECOGNIZING NEW AND CERTIFIED TECHNICIANS AND TECHNOLOGISTS

February 2nd, 2010

Certified Engineering Technologists

Evgueni Alexeenko, C.E.T.
Rommel Billanes, C.E.T.
Kosta Bor, C.E.T.
Sencia Cadiz, C.E.T.
Vanessa Carrol, C.E.T.
Adam Carter, C.E.T.
Daniel Damyanov, C.E.T.
Gerald Ferreira, C.E.T.
Tara Fick, C.E.T.
Cylma Foxton, C.E.T.
Kai Ming Fung, C.E.T.
Toby Glanville, C.E.T.
Muhammad Hanif, C.E.T., rcji
Javed Iqbal, C.E.T.
Sunny Kainth, C.E.T.
Jeremy Lauzon, C.E.T.
David Lupton, C.E.T.
Ian Maclachlan, C.E.T.
Haitham S Mahdiy, C.E.T.
Adam Makarewicz, C.E.T.
Brodie McArthur, C.E.T.
Darren Poan, C.E.T.
Frank Polanco, C.E.T.
Mehdi Rana, C.E.T.
Faisal Rao, C.E.T.
Douglas Robinson, C.E.T.
Sudhir Roy, C.E.T.
Jason Shorey, C.E.T.
Ryan Stepanick, C.E.T.
Douglas Tofflemire, C.E.T., rcsi

Applied Science Technologists

Saman Ajamzadeh, A.Sc.T.
Scott Beaudrie, A.Sc.T.
Vidyasagar Boddula, A.Sc.T.
Narendrasinh Chhasatia, A.Sc.T.
Dawn Coulson, A.Sc.T., rcsi
Hermie Dellosa, A.Sc.T.
Nathan Dempster, A.Sc.T., rcsi
Ravinder Dhar, A.Sc.T.
Saurabh Dhavale, A.Sc.T.
Stanley Eagles, A.Sc.T.
Christopher Hibbert, A.Sc.T.
Kyle Hope, A.Sc.T.
Muhammad Khan, A.Sc.T.
Dan Lazar, A.Sc.T.
Jonathan Mang, A.Sc.T.
Joseph Markovic, A.Sc.T.
Alan McKee, A.Sc.T.
Jose Medina, A.Sc.T.
John O'Brien, A.Sc.T.
Hermila Porras, A.Sc.T.

Joshua Sikorski, A.Sc.T.
Tony Stinziano, A.Sc.T.

Certified Technicians

Frank Henriques, C.Tech.
Paul Hsin, C.Tech.
Sandeep Makkar, C.Tech.
Jason Meadows, C.Tech.
Amratlal Mistry, C.Tech.
Brian O'Sullivan, C.Tech.
Mayurbhai Patel, C.Tech.
Ramendra Rudra, C.Tech.
Athar Soomro, C.Tech.
Elizabeth Van Erp, C.Tech.
Jordan Wallace, C.Tech.

Associate Members

Mumtaz Ahmed Abro
Omar Alshekhli
Nathan Anderson
Brendan Arghittu
Peter Balchand
Matthew Barrington
Tarjit Bassi
Elizabeth Bent
Sanjeev Bhatia
Rebecca Bonham
Ian Bottriell
Shane Brethauer
Stefanie Bunko
Jeremy Casucci
Jason Charlebois
Frank Chippetta
Marcus Churcher
Matthew Courey
Yvonne Crichton
Christopher Davis
Mark Dobbs
Jason Drier
Obinna Emeadi
Sudesh Galappaththi
Cornelio Gallardo
Rob Gamache
Jie Gao
Jamie Gay
Partha Ghosh
Samantha Goheen
James Gough
Gaspere Graziano
Adrien Griffiths
Marcela Guzman
Anthony Gyuro
David Heuchert
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Robert Hoekstra

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Michael Ivanco
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Marc Legare
Patrick Lemieux
Thomas Lorini
Robert Madonna
Schubert Martin
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Kathryn-Grace Maton
Christopher McConnell
Kathryn McGregor
Matthew McKeough
Paul McMunn
Roberto Mira
Farzaan Momtahn
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Magdalena Tabisz
Grant Taylor
Larry Thornton
Rey Christopher Timbang
Kelly-Anne Tippet
Julie Tot
Robert Van Buskirk
Brigitte Vandertas
Ramakrishnan Velu
Patrick Walters
Guang Wang
Galen Warren
Brian Watson
Anne Weniger
Andy Wilson
Marek Wisniewski
Eric Yeh

New members in OACETT Road Construction

Associate Member

Jordan Cote, rcji

Graduate Technician

William Linley, rcji

March 2nd, 2010

Applied Science Technologists

Stefan Balogh, A.Sc.T.
Andrew Bifolchi, A.Sc.T.
Narayan Ghimire, A.Sc.T.
Prospero Mendoza, A.Sc.T.
Daniel Perks, A.Sc.T.
Paulo Silva, A.Sc.T.
Antonino Spoleti, A.Sc.T.
Erwin Tajo, A.Sc.T.
Derrick Walters, A.Sc.T.

Certified Technicians

Adeel Ahmed, C.Tech.
Tristan Erion, C.Tech.
Taranjit Hundal, C.Tech.
Giovanni Italiano, C.Tech.
Messan Kpotogbe, C.Tech.
Glenn McCurdy, C.Tech.
Vitra Mohammed, C.Tech.
Nikolina Petkovic, C.Tech.

Duc Pham, C.Tech.
Stanley Skeggs, C.Tech. rcca
Bala Subramanian Vanumamalai, C.Tech.

Associate Members

Mike Abraham
Mahmood Akhter
Shirley Alabaso
Mahmoud Al-Hamad
Paulo Alves
Clinton Archer
Epifanio Don Jr Arellano
Nadeem Arshad
Alexander Awad
Kazem Bachrouch
Sanjeev Bansal
Jonah Beckerman
Rabi Biswas
Michel Blais
John Blakely
Jamie Bloemberg
David Brand
Matthew Brett
Ashley Brideau
Gianluca Caligiuri
Reynaldo Carabeo
Rebecca Carr
Riley Carter
Louis Charbonneau
Viktor Chpak
Donato (Danny) Ciasullo
Kevin Condorato
David Coulling
Jean-Pierre Couture
Scott Cox
Nami Da Silva
Ronald Dackiw
Bradley Davies
Adam de Jong
Kathryn Deschamps
Michel Desjardins
Mark Devlin
David Dewulf
Fayaaz Dhukai
Paul Didzbalis
Marc Dompierre
Robert Dubreuil
Bechara Eldib
Renato Favret
Nino Ferrante
Patrick Gauvreau
Micheline Gervais
Carole Godecki
Ferdinand Gonzales

Matthew Gorasso
Ketankumar Gore
Joshua Gowan
Manish Goyal
Nicholas Gratton
Shawn Hannemann
Stephanie Harvey
Rodney Hebert
Jason Homewood
Mathieu Hudebine
Maha Ibrahim
John James
Jonathan Jano
Daniel Jenik
Alexandar Josic
Nitika Kalra
Karthick Kanagalingam
Jenny Katsirdakis
Nader Keshavarzi
Corby Kirwin
Michael Koepke
Jack Kolodziejczyk
Petr Kornev
Michael Laker
Curtis Langerap
Kaile Laughton
Justine Loader
Ryan Looby
Eugeniu Luca
Douglas MacDonald
Ravi Madan
Paul Maddalena
Erik Maddocks
Kyle Maki
Darshanand Manohar
Joseph Martin
Glenn Massinger
Ryan Matteau
Neal McCain
Yamileth McCarthy
Dustin McConnell
Christopher McLean
Rene Mendoza
Sabrina Mills
Puneet Mistry
Mohamed Mohi Eldin
Mathew Morey
Andrew Murray
Yassin Nassar
Cong Nguyen
Alan Noble
Mihail Odessky
Onyebuchi Okocha
Eric Olbach
Abdul Rahman Othman

new members

RECOGNIZING NEW AND CERTIFIED TECHNICIANS AND TECHNOLOGISTS

Ausencio Pacheco Hernandez
Bharatkumar Pandya
Nicholas Pankhurst
Cheryl Paron
Karl Parss
Kaity Patcheh
Arunkumar Patel
Ashvinkumar Patel
Vimalkumar Patel
Shayne Pearce
Thomas Pickering
Vojislav Pijanovic
Derek Price
Jason Pritchard
Samantha Proulx
Soeb Puda
Dana Putman
Jahanzeb Qayyum
Joshua Raben
Shelley Radke
Habibur Rahman
Vishal Rajput
Matt Reitzel
David Robinson
Oleksiy Roddovskyy
Yuri Sabelnykov
Saad Sadir
Mihai Samoila
Dan Santos
Alexander Shapiro
Uddhab Shrestha
Chris Silva
Navnit Singh
Mukesh Singhal
Scott Singroy
Leanne Sipila

Randall Skinner
Rasanousack Sonthisay
Gary Sousa
John Stauffer
Jonathan Streutker
Matthew Stubbe
Gary Szapiel
Son Tang
Aubey Thompson
Bin Tian
Duke Tombia
Peter Turner
Christopher Van Daele
Kenneth Van Dyken
Richard Van Hende
Peter Van Vliet
Gregory Van Zeggelaar
Sarah Veldhoen
Andrew Vincent
Dejan Vukelic
Alexander Wakeling
Cedric Walsh
Stuart Watt
Thomas Weishar
Dilan West
Earl Whyte
Dave Williams
Ian Wilson
Momina Yakoob
Deyao Yang
Mykhailo Yurkin
Sergio Zaga
Tamer Zakhary
Menghua Zhan
Iosef Zilber
Zac Zohr

Existing Members in Road Construction

Applied Science Technologist

Denis Noel, A.Sc.T. rcji

Certified Engineering Technologists

S. Craig Leger, C.E.T. rcji
Sau Wee, C.E.T. rcji

Certified Technician

Kenneth Mercer, C.Tech. rcsi

Graduate Technologists

Arshad Iqbal, rcji
Joshua Schill, rcji

New members in OACETT Road Construction

Graduate Technician

Larry Grimes, rcca

Technical Specialists

Timothy Langlois, rcca
Mike McLennan, rcji

IN MEMORIAM

James Callery, Associate Member
John Gray, C.E.T.
Frank Hindle,
Senior Engineering Technician
Richard Jackson, C.E.T.
Risto Laamanen, C.E.T.
John Leslie, Certified Engineer
Bryden Loney, Technical Specialist
S.Laverne McKee,
Senior Engineering Technician
Ralph Reid, Certified Technician
John Steele, C.E.T.
Lorne Waterhouse, C.E.T.
George Warman,
Senior Engineering Technician

Scholarships for Technology Students

If you are a son or daughter of a certified technician or technologist, enrolled full-time in a technology program at a community college or institute, you can apply for a \$1,000 scholarship.

Contact the technology association or society in your province for details.

The deadline for submissions is October 1, 2010.

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OACETT

Honours and Awards 2010

Recognizing excellence in engineering and applied science technology

The Awards Committee invites individuals and employers to submit nominations for the Association awards listed below. Find the nomination form on the OACETT Website: www.oacett.org under Awards or call OACETT at 416-621-9621, ext. 236. Submit nomination forms to: **Awards Committee, 10 Four Seasons Place, Suite 404, Toronto, ON, M9B 6H7 • Fax: (416) 621-8694**

NOMINATIONS ARE DUE DECEMBER 31, 2010

Highest Association Recognition

Life Membership *(Members)*

The award is granted to an individual who has served the Association for many years in an exceptional manner.

Honorary Membership *(Non-Members)*

The award is granted to an individual who has made a significant contribution to the building of the Association, to the fulfilment of its objectives, or to the development of the profession of engineering/applied science technology.

Career excellence

Outstanding Technical Achievement Award

(Members, Non-Members, Groups)

The award is granted to an individual, business firm, crown corporation, government agency, association, research and development agency, educational institution or individual entrepreneur to recognize outstanding technical achievement in engineering/applied science technology. The basis for granting the award could be a single exceptional accomplishment, or a long record of continuing excellence. It must be worthy of the designation "outstanding" in its contribution to technology in Canada.

Women in Engineering Technology Award *(Members)*

The award is granted to a certified OACETT member to recognize her outstanding technical achievement in engineering/applied science technology.

The assessment criteria includes:

- *A certified member in good standing
- *Specific work accomplishments
- *Career path improvements
- *Corporate recognition
- *Peer recognition
- *Outstanding volunteer work
- *Outstanding leadership
- *Mentoring role
- *Level of professional responsibility

Thomas William Hopson Memorial Award

(Members, Non-Members, Groups)

The award is granted to an individual or group to recognize work of a technological nature and which is directed towards the service and betterment of humanity. It must be worthy of the accolade "for distinguished service to humankind through the application of engineering technology". The work being recognized could be completed on a paid or voluntary basis, as well as singularly or in concert with others. Recognition of the work in the wider community would be a major factor in assessing the nominee's contribution. It excludes service to the Association or for general technical work or non-technical community service.

George Burwash Langford Memorial Award *(Members)*

The award is granted to an individual who has distinguished himself/herself in his/her career, and thereby brought recognition and credit to the profession of engineering/applied science technology. It recognizes excellence in professional life, be it purely technical or in non-technical careers such as management, teaching, administration or other related work. It is not for work on Association-related bodies, boards or committees.

Outstanding Educator Award *(Members, Non-Members)*

The award is granted to an individual who has made a significant contribution to the education and training of engineering/applied science technicians and technologists. It recognizes a sustained record of teaching excellence over many years, and not for one specific year or singular accomplishment.

Meritorious service

Distinguished Service Award *(Members, Non-Members)*

The award is granted to an individual who has distinguished himself/herself in the service of the Association on a voluntary, salaried, or elected basis. While the award may be granted to recognize a singular accomplishment for the betterment of the Association, it is generally awarded to recognize sustained exceptional service over a period of time.

Blake H. Goodings Memorial Award *(Members, Non-Members)*

The award is granted to an individual who has either rendered long and distinguished service to the registration activities of the Association, or in the wider community, made a significant and definable contribution that impacts upon and benefits the Association's registration, accreditation or certification process.

Outstanding Community Service Award *(Members)*

The award is granted to an individual to recognize outstanding voluntary service within the wider community. While the service performed does not necessarily have to be of a technology-related nature, his/her professional status/occupation as a technician or technologist is still publicly recognized, thereby bringing added admiration and respect to the profession. Recognition of past service or outstanding accomplishments by an organization, or the wider community in general, would be a major factor in assessing the nominee's contribution. Length of volunteer service in itself would not qualify for the award.

Editorial excellence

Publications Award *(Members, Non-Members)*

The award is granted to an individual or group to recognize his/her/their authorship of an outstanding feature-length article, paper or work that was published during the relevant year by the Association itself or by another public communications medium. The work could have been completed singularly or in concert with others.



BY ALAN MURRAY

McMaster-Mohawk B.Tech: The evolution of education

In business, there is a constant need to adjust to the changing economic, social and technological climate.

This ability to adapt has percolated through the education system, forcing institutions to critically evaluate their technical programs and to embark on new endeavours in order to graduate students who have the knowledge, attributes and skill sets that employers are seeking.

To fulfill these needs, Hamilton's McMaster University and Mohawk College partnered together almost 13 years ago to create a Bachelor of Technology degree completion program. In those early days the program had one stream, Manufacturing, which provided a pathway for college graduates with advanced diplomas in Mechanical Technology to earn a degree from McMaster University in Manufacturing Technology.

The focus of the program was to produce leaders from a technical point of view, and also to provide the opportunity for individuals to specialize their skills. Over the years the program was successful, growing from a handful of students to several hundred graduates today.

The success of this initial program prompted officials at both institutions to expand the concept into other technological streams. In 2006, the original Manufacturing Bachelor of Technology program was completely overhauled and mandatory management courses and a co-op program were added. These additions were designed to augment the B.Tech. graduates' leading-edge technological skills with the added skills and knowledge required to meet emerging business challenges. New streams were added as part of the degree completion program: Computing and Information Technology (2006), Civil Engineering Infrastructure Technology (2006) and the Energy Engineering Technologies program (2008).



The Engineering Technology Building is home to the B.Tech. family of programs.

Over the past four years, the degree completion programs (DCP) have grown by leaps and bounds with around 300 students currently enrolled. Many of these students work full-time and study part-time since all of the DCP courses are offered all year on weekday evenings or on Saturdays.

The experience that these students bring to the classroom is invaluable, and the ability to apply their new-found knowledge immediately in the workplace is beneficial both to themselves and to their employers.

While the degree completion programs were expanding, McMaster University and Mohawk College once again looked to the future and, with the consultation of industry, created three integrated four-year technology programs. These new programs are specifically designed for graduating high school students and offer them both a university degree from McMaster and a college diploma from Mohawk. The programs include Process Automation Technology, Automotive and Vehicle Technology and Biotechnology. There are currently around 300 students enrolled in the full-time four-year programs.

For both the four-year and DCP programs, classroom instruction is ori-

ented towards developing the ability to apply engineering principles, including analysis and design, to industry-focused problems, reinforced through practical labs and mandatory co-op work experience. There is also a strong emphasis placed on building communication skills through report writing, presentations and class participation.

Many of the instructors come from industry, offering students both experience and a direct link to the real world. This formula for learning is designed to make graduates industry-ready.

A new Engineering Technology Building (ETB) opened on McMaster University's campus in September 2009. This state-of-the-art building is now home to the B.Tech. family of programs. The building itself has recently received two awards: it was the winner in the architectural merit category in the 2009 Ontario Concrete Awards and Hamilton's Urban Design and Architecture Awards committee selected it as 2009's recipient of the Award of Excellence for Architectural Design.

Looking to the future, the Bachelor of Technology programs are focused on increasing enrollment and educating individuals and companies as to what the graduates have to offer. Meanwhile, several B.Tech. graduates have continued their journeys to a professional engineering designation and post-graduate degrees.

Whatever the future may hold, these programs will continue to adapt and keep pace with industry and the needs of our technological society. For more information about the Bachelor of Technology program please visit our website at <http://btech.mcmastermohawk.ca/>.

Alan Murray is the executive director of the Bachelor of Technology Partnership at McMaster University.

BY STEPHEN MORLEY, C.E.T.

Audit of OACETT registration practices shows they meet high standards

The Office of the Fairness Commissioner (OFC) requires an independent compliance audit every three years for certifying bodies such as OACETT. The Association's first audit took place in the fall of 2009, covering the period July 3, 2008 – July 2, 2009 and was conducted in accordance with the Fair Access to Regulated Professions Act, 2006 (FARPA).

We are pleased to say that IETO's certification and assessment processes met or exceeded standards.

The resulting report, which was completed by BDO Dunwoody, concluded that OACETT's registration and certification processes meet the high standards required by FARPA. The report covered things like information to applicants, timely decisions and responses, internal reviews/appeals, information on appeal rights, documentation and assessment of qualifications, training and access to records. Information for the report was garnered through discussions with senior OACETT staff, file sampling and a review of Association documents.

Of the eight areas that were audited, six received the highest rating of "good" which means that controls were properly designed and have been operating effectively and no recommendations were made for improvement. Following discussions with the auditors, a recommendation for improvement was made in the other two areas which received the second highest rating of "satisfactory" which means that the controls were properly designed and have been operating effectively and the criteria required by FARPA were met for the most part. None of the areas audited received a rating of needs improvement or unsatisfactory.

The audit report concludes that



OACETT is in compliance, in all material respects, with the relevant parts of the FARPA Act. This should prove to be reassuring to our 2,000 plus annual applicants.

"It is satisfying to have an independent third party confirm that our process for assessment and certification is transparent, objective, timely, consistent, impartial, and above all, fair," said OACETT Registrar Sam DiGiandomenico.

As required by the OFC, the results of this audit, as well as OACETT's 2009 Annual Report for the OFC are posted on the OACETT website for interested members and the public to access.

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WESTERN REGION

London Chapter

OACETT's London Chapter, in conjunction with PEO's London Chapter, hosted the 13th annual Guiding Exploring Technology – Scouting Exploring Technology (GETSET) event on March 6. GETSET gives youth an opportunity to explore and understand the elements of engineering technology. This year 82 guides and scouts participated in tech tours and hands-on activities which included the super stacker,



Scouts participate in a hands-on project that required them to build a Rube-Goldberg machine.

building bridges, making ramps for ping-pong balls and Rube-Goldberg machines. Other highlights of the event included tech talk sessions and tech table hands-on displays.

The Guides and Scouts competed in a seven Pop-sicle stick bridge contest with the winners taking home gift certificates, ribbons and a National Engineering Month t-shirt. We commend our super team of committee members, exhibitors, tech task facilitators, tech talk speakers, tech tour guides and the London Gilwell Group for making this event a success.

*Daryl Keys, C.E.T. is London Chapter Chair:
london-chapter@oacett.org*

Grey-Bruce Chapter

The Grey-Bruce Chapter is inviting members and guests to its Family Fishing Day and Barbeque on July 10. This summer they have also planned a tour of a wind farm. This event is limited to 20 people. For further details on these events, contact Colin Saunders or Tyler Jahnke at greybruce-chapter@oacett.org.

*Colin Saunders, C.Tech., is Grey-Bruce Chapter Chair:
greybruce-chapter@oacett.org*



Scouts experimenting with the motor controls at the GETSET tech table exhibits.

Grand Valley Chapter

The Grand Valley Chapter has adopted a section of County Road 124 between Guelph and Cambridge. The upcoming clean-up dates are scheduled for July 10 and October 23. We look forward to having chapter members take part in the clean-up.



Grand Valley Chapter members at Annual General Meeting: Back row: Julia Evers, C.E.T., Steve Conway, C.E.T., rcsi, Paul Douglas, C.E.T., Doug Patterson, C.E.T., Jeff Rombough, A.Sc.T., Roger Kelian, C.Tech. Middle row: Jason Wigglesworth, Kevin Lima, C.E.T., Mike Laurie, A.Sc.T., Shervin Reyham, Arthur Choga, C.E.T., David Leonce, C.E.T. Front row: Mary Richardson, Dudley Jayatillake, C.E.T., Dave Galda.

The chapter held its Annual General Meeting on April 6. The 2010 chapter executives are Mike Laurie, A.Sc.T., re-elected as the chapter chair, Kevin Lima C.E.T., vice-chair, Paul Douglas, C.E.T., re-elected as treasurer and Roger Kelian, C.Tech., appointed as the new secretary. If you are interested in becoming a chapter executive, contact our chapter representatives.

Annual Grand Valley Golf Tournament

The annual Grand Valley Chapter Golf Tournament is scheduled for Saturday, September 11 and will be held at the Ariss Valley Golf Club in Guelph. If you are interested in playing contact Steve Conway at sconway@gamsby.com.

For more information on upcoming events visit our website at www.oacettgvc.ca or contact Mike Laurie.

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

Essex Chapter

OACETT Family Fun Skate

On February 21 the Essex Chapter held an OACETT Family Fun Skate at South Windsor Arena. The skate was well attended with members, prospective members and families.



Children get ready to skate at the OACETT Family Fun Skate event.

“Engineering the Future” luncheon and Technologist of the Year Award

On March 26 the annual Engineering Week Luncheon was held at the Caboto Club in Windsor. The theme for this year’s luncheon was ‘Engineering the Future’. The keynote speaker was Ron Gaudet, chief executive officer of the Windsor-Essex Economic Development Commission. President-Elect Rod MacLeod, B.Sc., C.E.T., and more than 150 people came out to the luncheon. MacLeod presented the Technologist of the Year award to Julian Lunardi, C.E.T., founder and president of The Praxis Group. Established in 1994,



President-Elect Rod MacLeod, B.Sc., C.E.T., (left) congratulates Julian Lunardi, C.E.T., the Technologist of the Year Award winner at the Essex Chapter’s annual Engineering Week Luncheon.

the company specializes in project management and engineering support from concept to commission. Lunardi is also a very active volunteer in the community and instrumental in co-ordinating the local Carousel of Nations, a three day event for the Multicultural Council of Essex County. He is also a member of the Caboto Club and the General Councillor in charge of the Arts and Cultural Committee. Congratulations Julian!

*David McBeth, C.E.T. is Essex Chapter Chair:
essex-chapter@oacett.org.*

Chatham-Kent Chapter

The Chatham-Kent Chapter recognized 25-, 40- and 50-year OACETT members at its Annual General Meeting. The 25-year milestone members included: Gary DePooter, John Harris, David Scherle, C.E.T., Henry Taekema, C.E.T., Jim Tiessen, C.E.T., Henricus Timmers, C.E.T., Dirk Verbeek, C.E.T., and Douglas Wilson, C.E.T. Phillip Russell, C.E.T., was congratulated for his 40 years of service. Phillip Wright, C.E.T., and Catharinus Dirksen, C.E.T., were also awarded for their 50 years with OACETT.

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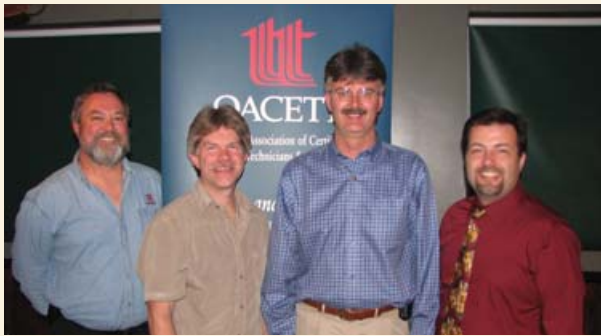
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Once you apply, OACETT will send you the study outline and study manual. An optional seminar is available to help you prepare.

Please apply at least six weeks in advance.



WESTERN REGION



Christopher van Dop, C.E.T. (left), PASB regional councillor of the western region and Chatham-Kent Chapter Chair Jerry Corso, A.Sc.T. (right), congratulate Douglas Wilson and Henry Taekema for reaching their 25 years with OACETT.

On April 9 OACETT's Chatham-Kent Chapter awarded budding scientist Tyler Udvari with the Best Applied Science

Award at the 45th annual Chatham-Kent Regional Science Fair held at the École secondaire de Pain Court. The competition hosts life science and engineering projects put together by elementary and secondary students.



Michael W. Davis, C.Tech. (left), presents Tyler Udvari with the Best Applied Science Award.

Udvari, a grade 8 student earned the award for his fibre optic enhanced light project and has now moved on to the national science fair competition held in Peterborough.

Jerry Corso, A.Sc.T., is Chatham-Kent Chapter Chair: chathamkent-chapter@oacett.org

TORONTO REGION

Toronto West Chapter

The Toronto West Chapter hosted the 3rd annual Engineering Idol competition on March 6 at the Science Centre as part of National Engineering Month. Students were challenged with coming up with the best real-life simulation of a water filtration system project. Each team had to come up with a sales pitch and presentation, scientific research and then build the actual project on competition day. Judged by professional engineers and other industry experts, Richview Collegiate Institute swept the competition and won first prize, taking home the coveted trophy. Michael Power Secondary School came in second place and Sandalwood Heights Secondary School was awarded the third place prize. Rewards and scholarships were given out to the winning teams.



Students from Richview Collegiate Institute hold the coveted Engineering Idol after winning this year's competition.

Careers in Engineering Technology

Toronto West Chapter Chair Roy Sue-Wah-Sing, M.Eng., C.E.T. and Bart Leung, P.Eng. of PEO's Toronto West Chapter visited grade six students at Runnymede Public School on March 10 and gave a presentation on careers in

engineering technology as a part of National Engineering Month. Following the presentation, the students were asked questions on the information presented and awarded prizes for their participation.

Roy Sue-Wah-Sing, M.Eng., C.E.T. is Toronto West Chapter Chair: roy.oacett@gmail.com

CENTRAL REGION

Georgian Bay Chapter 21st annual OACETT Georgian Bay Golf Tournament

Friday, September 17
12:00 p.m. to 7:00 p.m.
Hawkrigde Golf and Country Club, Orillia
\$85 for members and \$100 for guests
Event includes golf, power cart, lunch, dinner and prizes. Registration and payments are due by September 1.

Come out to our biggest event of the year. It is a great opportunity to meet and network with over 100 OACETT and PEO members. We are looking for hole sponsorships to help raise funds for local post secondary student awards.

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

Toronto East Chapter

Toronto East and Central chapters participated in National Engineering Month activities with a hands-on Engineering Fair and Technology Exhibit at Malvern Town Centre in Scarborough. The event included a live



Pasha Mohammed, C.Tech., demonstrates a simple motor to visitors.

demo on wireless electricity and simple machines, bridge building activities and exhibits on producing electricity from fruits and vegetables. A number of OACETT members participated and close to 500 people visited the fair. A special thanks to all the volunteers for taking the time to give back to the community.

We want to keep you informed and participating in our chapter activities. Please take the time to provide OACETT with your updated e-mail and contact information.

Pasha Mohammed, C.Tech., is Toronto East Chapter Chair: abbupasba@yahoo.com



Prasenjit Pal (left) and Salin Sarin (right) Centennial College students along with Pasha Mohammed, C.Tech., participate in the National Engineering Week Science Fair.

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Next Sessions:

Saturday, July 17 – Sunday, July 18

Monday, August 16 – Tuesday, August 17

Register at www.oacett.org or contact: Arlene Duval, 416-621-9621, ext. 255
adual@oacett.org

EASTERN REGION

Quinte Chapter

The Quinte Chapter has held many successful events over the past few months. On February 13 and 14, a Technology Writing Seminar took place at Loyalist College. It was great having the training close to home.

On February 22 the chapter held its monthly meeting in Batawa at TABB Mechanical. The company's owner Michael Tiffe, C.E.T., gave a short lecture on the Ontario Power Authority Feed-in Tariff (FIT) program and placing renewable energy on the map. A special thanks to Michael for the hospitality and a great meeting.


The Quinte Regional Science and Technology Fair was held on March 27 in Belleville at Loyalist College. Special awards for the



Quinte Science and Technology Fair winners Gavin Metcalfe (left) and Theresa Decola receive trophies and rewards for coming in first place.

most innovative application of technology were judged by Bob Archer, C.E.T., and Chris Ellerton, A.Sc.T., of OACETT's Quinte Chapter. Theresa Decola and Gavin Metcalfe of Frankford Public School came in first place for their project named 'Blades of Glory' which promotes the efficient use of wind energy.

The Quinte Chapter holds regular monthly meetings on the third Monday of each month at Loyalist College. All members are welcome and encouraged to join us. For more information, contact our executive members.

Christopher Ellerton, A.Sc.T. is Quinte Chapter Chair:
quinte-chapter@oacett.org 

HORSESHOE REGION

Niagara Chapter

Niagara Chapter 3rd annual Golf Tournament

Friday, August 30

Tee times begin at 3:00 p.m.

Peninsula Lakes Golf Club – 569 Highway 20 West

\$50.00 per person

Space is limited, RSVP by August 6

The chapter is seeking donations for its prize table. For more information or to register contact Denise Van Osch at dvanosch@niagaracollege.ca or 905-871-4950.

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

NORTHERN REGION

Timmins Regional Chapter

On March 4 the Timmins Regional Chapter awarded a \$300 OACETT bursary to Tim Carter, a second year electrical engineering technician student at Northern College during their National Engineering Week event. Carter was acknowledged for his outstanding achievement as an engineering technology student, setting an example in his community and for promoting the profession. The event also hosted a guest speaker from Ontario Power Generation who elaborated on future engineering projects in the region and promoted the need for a future workforce in the engineering technology sector.

Shane Dubroy, C.E.T. is Timmins Regional Chapter Chair: timminsreg-chapter@oacett.org



From left to right: Norman Nankervis, C.E.T., Quinte Chapter executive member and Mary Anne Martin, the chapter's college liaison present Tim Carter with a \$300 bursary award.



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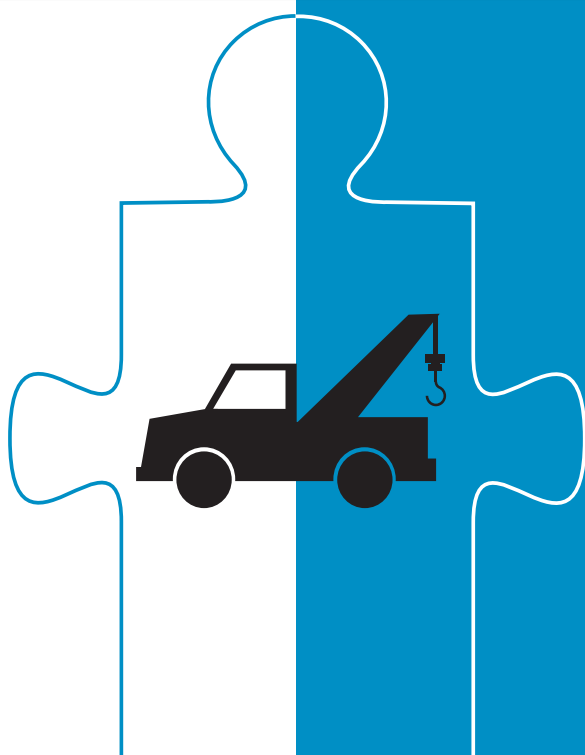
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