

90
YEARS



Professional Engineers
Ontario

2012

ANNUAL

REVIEW

PEO STAFF CONTACTS

Association staff can provide information about PEO. For general inquiries, simply phone us at 416-224-1100 or 800-339-3716. Or, direct dial 416-840-EXT using the extensions below.

REGULATORY PROCESS

Acting CEO/registrar	EXT
Michael Price, P.Eng., MBA, FEC	1060
Executive assistant, president	
Brenda Caplan	1104
Deputy registrar, regulatory compliance	
Linda Latham, P.Eng.	1076
Manager, complaints and investigations	
Ken Slack, P.Eng.	1118
Deputy registrar, licensing and finance	
Michael Price, P.Eng., MBA, FEC	1060
Manager, admissions	
Moody Farag, P.Eng.	1055
Manager, licensure	
Pauline Lebel, P.Eng.	1049
Manager, registration	
Brian MacEwen, P.Eng.	1056
Examinations administrator	
Anna Carinci Lio	1095
Deputy registrar, tribunals and regulatory affairs	
Johnny Zuccon, P.Eng., FEC	1081
Director, policy and professional affairs	
Bernard Ennis, P.Eng.	1079
Manager, policy	
Jordan Max	1065
Program manager, OCEPP	
Catherine Shearer-Kudel 416-224-1100	ext. 1204
Manager, tribunal office	
Salvatore Guerriero, P.Eng., LLM	1080

REGULATORY SUPPORT SERVICES

Chief administrative officer	
Scott Clark, B.Comm, LLB, FEC (Hon)	1126
Manager, student and government liaison programs	
Jeannette Chau, MBA, P.Eng.	647-259-2262
Manager, EIT programs	
Manoj Choudhary, P.Eng.	1087
Director, people development	
Fern Gonçalves, CHRP	1106
Recognition coordinator	
Olivera Tosic, BEd	416-224-1100 ext. 1210
Committee/volunteer coordinator	
Viktoria Aleksandrova	416-224-1100 ext. 1207
Manager, chapters	
Matthew Ng, P.Eng., MBA	1117
Director, communications	
Connie Mucklestone	1061
Editor, <i>Engineering Dimensions</i>	
Jennifer Coombes	1062
Manager, communications	
David Smith	1068

CONTENTS

2	Council list/staff contacts/contents
3	President's message
4	CEO/Registrar's report/Register
5	2012 Statistics at a Glance
6-9	PEO at 90
10-11	Abbreviated financials (full financial statements available on PEO's website and in the May/June 2013 issue of <i>Engineering Dimensions</i>)
12-13	Chapters
14-15	Honours
16-19	Volunteer list

2012-2013 PEO COUNCIL AND EXECUTIVE STAFF

Officers

President

Denis Dixon, P.Eng., FEC

Past president

J. David Adams, P.Eng., MBA, FEC

President-elect

Annette Bergeron, P.Eng., MBA

Vice president (elected)

George Comrie, P.Eng., CMC, FEC

Vice president (appointed)

Rakesh K. Shreewastav, P.Eng., AVS

Executive members

Ishwar Bhatia, MEng, P.Eng.

Rebecca Huang, LLB, MBA

Michael Wesa, P.Eng., FEC

Councillors

Councillors-at-large

Roydon A. Fraser, PhD, P.Eng., FEC

Position Vacant

Bob Dony, PhD, P.Eng., FIET, FEC

Northern Region councillors

Michael Wesa, P.Eng., FEC

Sandra Ausma, PhD, P.Eng.

Eastern Region councillors

Paul Ballantyne, P.Eng., FEC

Chris Taylor, MEng, P.Eng., MBA

East Central Region councillors

Thomas Chong, MSc, P.Eng., PMP

Denis Carlos, P.Eng., FEC

Western Region councillors

Wayne Kershaw, P.Eng.

Len C. King, P.Eng.

West Central Region councillors

Robert Willson, P.Eng.

Danny Chui, P.Eng., FEC

Lieutenant governor-in-council appointees

Ishwar Bhatia, MEng, P.Eng.

Santosh K. Gupta, PhD, MEng, P.Eng., FEC

Richard J. Hilton, P.Eng.

Rebecca Huang, LLB, MBA

Vassilios Kossta

James K.W. Lee, PhD, P.Eng., FEC

Mary Long-Irwin

Sharon Reid, C.Tech

Chris D. Roney, P.Eng., BDS, FEC

Tarsem Lal Sharma, PhD, P.Eng.

Rakesh K. Shreewastav, P.Eng., AVS

Martha Stauch, MEd

Engineers Canada Directors

David W. Euler, P.Eng., FEC

Diane Freeman, P.Eng., FEC

Catherine Karakatsanis, MEng, P.Eng., FEC

E. Philip Maka, P.Eng., FEC

Chris D. Roney, P.Eng., BDS, FEC

Executive Staff

Acting CEO/registrar

Michael Price, MBA, P.Eng., FEC

Deputy registrar,

licensing and finance

Michael Price, MBA, P.Eng., FEC

Deputy registrar,

regulatory compliance

Linda Latham, P.Eng.

Deputy registrar,

tribunals and regulatory affairs

Johnny Zuccon, P.Eng., FEC

Chief administrative officer

Scott Clark, B.Comm, LLB, FEC (Hon)



Recyclable where facilities exist





Denis Dixon, P.Eng.,
FEC, President

In 2012, PEO celebrated its 90th year as the regulator of the engineering profession in Ontario.

Established by the first *Professional Engineers Act* in 1922, the association's 854 members at the time designed and built roads, railways, mines, airplanes, cars, factories and buildings.

Today, PEO governs over 80,000 licence and certificate holders, who continue to make advancements in traditional areas such as mining, civil, and transportation engineering, in addition to leading developments in new and innovative disciplines such as nanotechnology, biomedical engineering and environmental protection.

One constant throughout these years has been PEO's commitment to serving and protecting the public interest where regulation of engineering is concerned. A highlight in this area during the 2012-2013 council term was the long-awaited and much anticipated approval by the provincial government of a date for the repeal of section 12(3)(a) of the *Professional Engineers Act*, the profession's so-called "industrial exception." As approved by the government on February 27, effective September 1, those responsible for professional engineering work in relation to machinery or equipment used to produce products for their employer in their employer's facility, must be licensed by PEO to perform such work. The repeal will improve workplace safety and efficiency and provide a higher standard of professional accountability.

Our effort to repeal section 12(3)(a) highlights the importance of maintaining positive relations with the provincial government, and we made great strides in this relationship. During the year, I had discussions with the premier's office on my recommendation to create a provincial engineer position, similar to the province's chief medical officer of health. A provincial engineer could take overall authority for engineering works in the province, to provide specific direction in the event of situations such as the tragedy in Elliot Lake, and to ascertain whether such situations are indicative of systemic problems.

Determining the root cause of events like the partial collapse of the Algo Centre Mall roof and finding appropriate solutions can be challenging. PEO can act only where a problem involving a particular engineering work or practitioner

has come to light. This means the public might be put at risk, potentially for years, in such situations. I believe an independent Ontario Provincial Engineer could provide the necessary review, analysis and integration of information to help ensure the most effective technical solutions to public policy concerns.

In July, the Ontario government established a public Commission of Inquiry into the Elliot Lake collapse, and PEO sought and received standing for Part 1 of the inquiry, dealing with events prior to the collapse. PEO has co-operated fully with the inquiry, and also opened its own investigation into what part, if any, our licence or certificate holders might have played in the tragedy. Our Professional Standards Committee also issued a Professional Practice Bulletin in the November/December 2012 issue of *Engineering Dimensions* on "Structural Engineering Assessments of Existing Buildings."

When I began my presidency, one of my goals was to bring about a renewal of professional self-governance to increase the relevance of the profession to its practitioners. As part of its commitment to seeking greater member participation in governance of the profession, in 2012 PEO successfully held electronic, all-candidate meetings via webcast for voters to learn about their candidates and ask questions. This was the first time PEO voters were provided such access to the candidates. The success of the initiative resulted in a repeat performance for the 2013 council election.

PEO also launched new websites to enhance our interaction with volunteers and facilitate nominations for our awards. The new volunteer website lists volunteer positions available on PEO's committees, task forces, and chapters, and enables interested candidates to submit applications online. The site also features profiles of dedicated volunteers who devote time and energy to the association. The new awards website enables nominators to create, edit, and submit nomination documentation online for PEO awards, and view the accomplishments of past award recipients. Together, the websites offer new tools for volunteers and a database of historical information on PEO volunteer achievements.

PEO's main website has also undergone a redesign. The new, more navigable site provides visitors an intuitive experience, while maintaining the existing wealth of information about PEO's role as the regulator of professional engineering in the province, including details on our licensing, complaints, discipline and enforcement processes, programs, activities, events and publications.

Other ongoing electronic initiatives include enabling councillors to vote and participate in council meetings remotely, and creating an improved and more cost-effective licensing process.

The past year also saw the departure of long-time CEO/registrar Kim Allen, P.Eng., FEC, who became CEO of Engineers Canada. PEO's acting CEO/registrar is Michael Price, P.Eng., MBA, FEC, the current deputy registrar, licensing and finance. Michael has been in PEO senior management for 10 years and his experience and leadership are extremely valuable to us.

As my term concludes, I want to thank our volunteers and staff for their ongoing commitment to enhancing our profession. It was truly an honour to serve as your president.



Michael R. Price,
MBA, P.Eng., FEC
Acting CEO/Registrar

PEO continued its commitment during the year to growing the profession and increasing accessibility to licensure. In 2012, the association issued over 25 per cent more P.Eng. licences to first-time applicants than the previous year.

Part of this growth can be attributed to the success of PEO's recently established Mentorship Program, which sees professional engineers assuming leadership roles within their companies and communities to provide guidance and support to engineering interns (EITs) as they prepare to meet their licensure requirements. By the end of 2012, phase 2 of the program had launched with over 400 EITs and licence holders participating in the program through 14 chapters, including: Toronto-Humber, Oakville, Scarborough, Hamilton-Burlington, Sudbury, Grand River, Ottawa, York, Mississauga,

Willowdale-Thornhill, Lake Ontario, Windsor-Essex, Lakehead and Brampton.

For those interested in becoming a professional engineer in Ontario, PEO continued to offer EIT seminars and webinars on PEO's Experience Requirements for Licensure and the Professional Practice Exam (PPE). During the year, 700 EITs attended the experience sessions and 800 attended the PPE sessions.

PEO also provided special licensing support for individuals

affected by the impending repeal of section 12(3)(a) of the *Professional Engineers Act*, which was approved by the provincial government early in 2013 for proclamation on September 1, 2013. This change requires that an employee who does professional engineering in relation to machinery or equipment used to produce a product for their employer will need to be a licensed professional engineer or be supervised by a licence holder. Since the repeal received royal assent on October 25, 2010, PEO has held public meetings with industry across the province and a broad range of manufacturing sectors. These meetings included one-on-one discussions with employees and employers on the specific scope of this change. To assist with the transition, PEO has extended its Financial Credit Program to eligible employees, allowing them to apply for a P.Eng. or a Limited Licence, or apply for reinstatement at no cost, as well as receive one year free enrolment in the EIT program. Repealing section 12(3)(a), which existed only in our province, will reduce

production downtime by ensuring accountable, licence holders are taking responsibility for production process design, resulting in less rework. As well, under a national regulatory framework, it will be easier for Ontario companies to transfer their employees to work in their facilities across Canada and know that the licensing requirements are the same in all jurisdictions.

Another initiative that proved successful during the year was PEO's efforts to engage university students in the profession. The launch of a new Student Membership Program (SMP) website, www.engineeringstudents.peo.on.ca, as well as a revamped SMP brochure, have been great tools to enable students to become better connected with the profession, to become more knowledgeable of the regulatory requirements governing the profession, and to learn the needs and requirements for licensure.

PEO also produced a new brochure to help international engineering graduates obtain their P.Eng. licence. The brochure, titled *Valuing Newcomers: A Guide to Licensure for International Engineering Graduates*, provides answers to questions commonly asked by international engineering graduates about the licensure process in Ontario and provides details on the resources available to newcomers to Ontario. Copies of the publication were distributed to consular offices and settlement agencies, as well as at trade shows, seminars and other events.

PEO significantly improved its financial position in 2012 with a surplus of revenue over expenses of almost \$1.4 million achieved through cost reductions, increased use of technological communications and staff efficiencies. In 2013, for the fifth consecutive year, PEO has frozen its annual P.Eng. licence fees to continue to provide its members with the lowest licence fees in Canada.

The past year has certainly been an active one for the association and, having been appointed acting CEO/registrar in the fall, for me as well. My sincere thanks to all our dedicated staff and volunteers who have helped ease my transition into this new role and whose tireless work has enabled PEO to continue its innovative work as a leader among regulators.

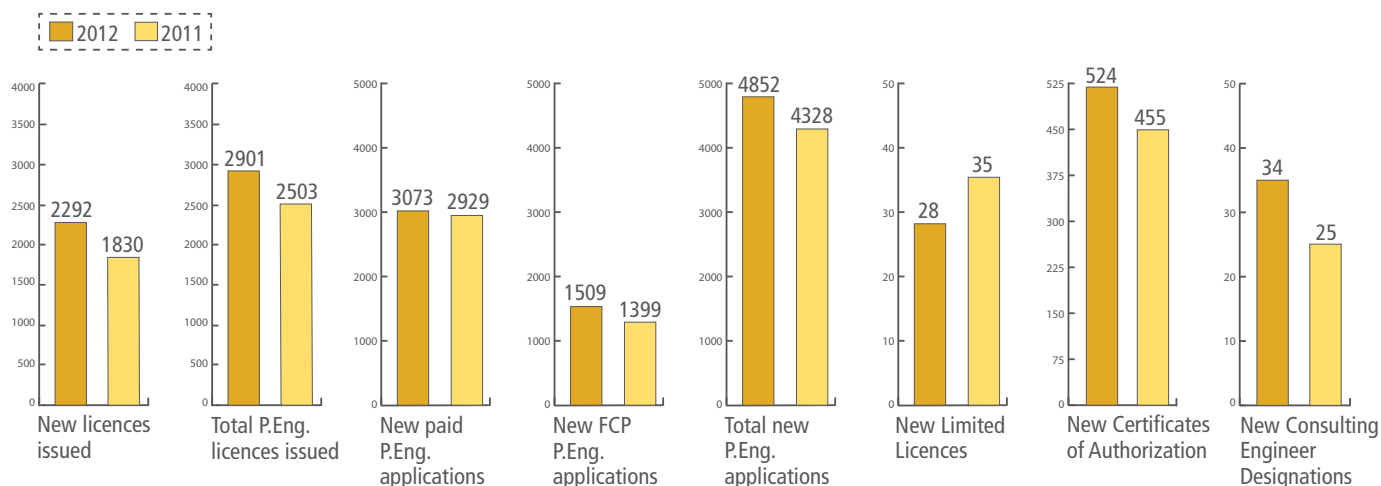
The Register at December 31, 2012

Total P.Eng. licences	76,118
Certificates of Authorization	4,796
Provisional Licences	34
Consulting Engineer Designations	1,158
Engineering interns	8,509
Limited Licences	166

2012 PEO Committee, Task Force, Task Group Reports

Annual reports of PEO committees, task forces and task groups will be provided at the 2013 PEO Annual General Meeting and posted on the PEO website at www.peo.on.ca.

2012 STATISTICS AT A GLANCE



ENFORCEMENT STATISTICS

Active files at year end 2011	159
Files opened 2012	548
Files closed 2012	407
Active files at year end 2012	
Ministry of Government Services name challenges	122
Public inquiries	103
Old business names	49
New business names	23
Self-employed engineers	3
Total	300

Reporting changed in 2012 to reflect file activity and file type. Comparable information not available for 2011.

COMPLAINTS COMMITTEE STATISTICS

Year of activity	2012	2011
Complaints filed	95	61
Complaints considered by Committee	76	56
Referred to Discipline Committee	6	4
Not referred to Discipline Committee	64	47
Consideration deferred	6	5

DISCIPLINE COMMITTEE STATISTICS

Year of activity	2012	2011
Matters referred to discipline	6	6
Pre-hearing conferences held	6	27
Matters pending (caseload)	18	23
Hearings completed	8	16
Written final decisions issued	10	12

REGISTRATION COMMITTEE STATISTICS

Year of activity	2012	2011
Requests for hearings	4	5
Pre-Hearing conferences held	4	1
Matters pending (caseload)	10**	9*
Hearings completed	2	1
Written final decisions issued	2	1

*2 transition files

**4 matters deferred

COMPLAINTS REVIEW COUNCILLOR STATISTICS

Year of activity	2012	2011
Applications for review	4	5
Dismissals	7	7
Notices to conduct a review	0	4
Reviews	0	0
Files pending	4	11



Marisa Sterling, P.Eng., PEO lead, section 12(3)(a) repeal; Attorney General John Gerretsen, LLB, QC; and Acting PEO CEO/Registrar Michael Price, MBA, P.Eng., FEC at Queen's Park.

Repeal of section 12(3)(a) of the *Professional Engineers Act*

Effective September 1, 2013, those taking responsibility for professional engineering work in relation to production machinery or equipment will have to hold an engineering licence. In January 2013, the Government of Ontario set March 1, 2013 as the effective date for a previously approved change to the *Professional Engineers Act* to repeal section 12(3)(a), the so-called "industrial exception." The effective date was later extended to September 1, 2013. Also approved was the addition of a new section 88 to PEO's Regulation 941/90 to help employers make the transition to the new requirement. PEO council approved the wording of section 88 at its meeting in September 2012.

With the repeal of section 12(3)(a) of the *Professional Engineers Act*, individuals must hold an engineering licence if they take responsibility for an act within the practice of professional engineering on machinery or equipment used to produce products for their employer in their employer's facility.

Under Regulation 941's new section 88, companies that file a compliance plan by August 31, 2013 have up to one year to meet the new requirement. Between when the repeal received royal assent on October 25, 2010 and the January 25, 2013 announcement of the initial effective date, PEO had met with industry across the province and across a broad range of manufacturing sectors to provide information on the specific scope of the change and to learn what assistance would be useful to industry in implementing the change.

To provide further support, PEO is extending its Financial Credit Program to all employees who apply for a licence by August 31, 2013 in connection with an employer's compliance plan. PEO will assist these employees through the one-year compliance period by providing application and Engineering Intern Program (EIT) seminars, and administering its professional practice exams at their job sites for groups of at least 20 people. Instructional webinars and questions and answers about the new requirement are posted on PEO's website at www.peo.on.ca.

PEO participates in Elliot Lake Inquiry

As the regulator of professional engineering in Ontario, PEO requested and was granted standing in Part I of the Elliot Lake Commission of Inquiry, which deals with events prior to the collapse in June 2012 of part of the Algo Centre Mall. In granting standing to PEO, Commissioner Paul R. Bélanger noted PEO's "important interest and expertise in the issues" to be examined at the inquiry. The commissioner made his decisions on standing on the basis of such factors as an applicant's "substantial and direct interest" in the inquiry's subject matter, and potential to "further the conduct of" and "contribute to the openness and fairness of" the inquiry. The inquiry was established in July 2012 by the Ontario government under the *Public Inquiries Act, 2009*, to inquire into and report on events surrounding the tragedy. PEO opened its own investigations into what part, if any, the conduct of its licence and certificate holders might have played.

PEO and OSPE recommit

In September, PEO President Denis Dixon, P.Eng., FEC, and Ontario Society of Professional Engineers President and Chair Nadine Miller, MEng, P.Eng., recommitted their organizations to working together, when appropriate, by issuing a joint letter to PEO members. The letter described how the two organizations, existing autonomously, intended to work together, when appropriate, to serve and protect the public interest and to "make a vital and respected profession even better."

This commitment follows a decision by PEO members in November 2011, who voted to terminate the agreement between the association and OSPE. This agreement, signed in 2000, provided not only transitional measures over the first three years to establish OSPE but also significant continuing obligations for PEO and restricted how the two organizations could resolve disputes between them.

Since 2000, OSPE has been the voice of professional engineers across the province, speaking out on their behalf to governments, industry and the public. PEO and OSPE continue to jointly host the Ontario Professional



Guests at a PEO-OSPE dinner in May included (left to right): Kim Allen, P.Eng., FEC, then PEO registrar and CEO; OSPE then Vice Chair Nadine Miller, P.Eng.; PEO Councillor Chris Roney, P.Eng., BDS, FEC; and Danny Young, P.Eng., OSPE's then acting CEO.

Engineers Awards, as well as participate together in other events when it is mutually beneficial and will not confuse PEO members or the public.

First electronic all-candidate debates for PEO council elections

In 2012, for the first time, PEO held electronic, all-candidate meetings via webcast for voters to learn about their candidates and ask questions. Eligible PEO voters were able to shape the debates by submitting questions online for each session. The debates were webcast, as well as available via teleconference, in real time, and were archived on PEO's website until the close of voting. Based on the success of this initiative, similar debates were held for the 2013 council election. The 2013 election saw the end of mail-in ballots, with voting conducted solely by telephone or at the Official Elections Agent's secure website using a unique control number sent to each voter by mail with the list of candidates. Candidate statements were published in the January/February issue of *Engineering Dimensions* and on the PEO website. The Official Elections Agent's online voting site also linked to the candidate statements.

Paperless PEO!

At its July meeting, PEO council approved steps to promote environmentally sustainable business practices that include providing *Engineering Dimensions*, council election material, membership cards and other correspondence electronically to licence and Certificate of Authorization holders, engineering interns and applicants.

PEO discontinued producing a plastic permanent membership card in January 2013. Members requiring membership cards can download them from PEO's website, as is done with EIT cards and tax receipts. The elimination of paper notices and reminders became effective March 1, 2013.

Starting with the 2013 council elections, PEO enabled voting only by electronic means (telephone and Internet) and no longer distributes printed copies of candidate election materials as a separate mailer. Beginning with the March/April 2013 issue, all members with valid email addresses will receive their copy of *Engineering Dimensions* electronically, unless they opt-in to the printed edition. Printed versions of publications, such as brochures, guidelines and *Engineering Dimensions*, are still available for external promotions to showcase the association.

High marks from Fairness Commissioner

PEO continues to earn high marks from Ontario's Fairness Commissioner for its efforts to accommodate the licensing and registration needs of internationally educated applicants.

In a February 2012 audit of the registration processes of major Ontario regulatory bodies, the Fairness Commissioner said PEO is demonstrating "many commendable practices" in providing thorough information to applicants. The OFC noted that PEO's website is fully detailed and contains all the information an applicant needs to register in the profession. The Fairness Commissioner also praised PEO for implementing recommendations aimed at increasing the information available on its website, and for providing training to staff about the objectives of fairness legislation.

The Fairness Commissioner was established in 2006 through the Ontario government's *Fair Access to Regulated Professions Act*. The act spells out regulators' obligations to be transparent, objective, impartial and fair in their registration and licensing requirements.

Monitor for professional experience

At its April 2012 meeting, council approved conditions for the use of a professional engineer monitor by engineering interns (EITs) in lieu of a professional engineer supervisor as an acceptable alternative to permit them to gain the requisite experience set out in Regulation 941, section 33(1)4. The change is intended to provide another option for those trying to obtain the required 12 months of Canadian experience for licensure. Under the new requirements, EITs will sign a declaration that they will not practise professional engineering unless a professional engineer has assumed responsibility in accordance with the *Professional Engineers Act*, section 12(3)(b). Monitors will sign a declaration that they are professional engineers assuming responsibility for the services within the practice of professional engineering their EITs are undertaking in accordance with the act; will comply with PEO's professional standard related to assuming responsibility for services within the practice of professional engineering once set out in regulations; and will commit to being in the work locations of their EITs at least 30 hours a month.

Canadian Framework for Licensure

As recommended by PEO's National Framework Task Force, in November council approved continuing to develop the policy direction and key considerations of the fairness in registration practices component of the Canadian Framework for Licensure (CFL).

Engineers Canada is developing the CFL to help Canadian engineering regulators improve their legislative frameworks to enhance equity, fairness, consistency and timeliness of services. These improvements are intended to enhance the national and international mobility of licence holders through uniform qualifications recognition, admissions, and discipline and enforcement procedures. PEO has been an active participant in the CFL since the effort's inception.

The CFL's fairness in registration practices element aims to ensure that Canadian engineering regulators "promote and maintain registration practices that provide applicants with an equal opportunity to meet the requirements for licensure."

To be consistent with the element, regulators will have to have registration practices that:

- are accessible, timely, monitored, transparent, objective, partial and just;
- provide an appeal or fairness review process for applicants;
- demonstrate accountability through public reporting;
- are reviewed and improved on an ongoing basis; and
- can accommodate new and emerging disciplines in engineering.

PEO is now among the Engineers Canada constituent associations that plan to concur with the CFL's fairness in registration practices element.

Performance standards/practice guidelines and bulletins

Early in 2012, a professional standard on the *Preparation of Environmental Site Assessment Reports* was sent to the Ministry of the Attorney General

for incorporation into Regulation 260/08. A standard for *Tower Crane Review* was approved by the Practice Standards Committee (PSC) in September 2012 and is currently undergoing public consultation.

Council approved publication of an updated guideline for *Professional Engineering Practice*. The original guideline was issued in 1988 and slightly revised a decade later. The new version was updated to include additional information on specific commonly asked practice questions. It also reflects changes to the *Professional Engineers Act* and regulations since the last update in 1998. Work continued on guidelines for Forensic Engineering; Practice Review; Professional Engineers Developing Software for Safety Critical Engineering Applications; and Professional Engineers Providing Structural Engineering Services in Buildings.

The PSC developed a practice bulletin on *Structural Engineering Assessments of Existing Buildings*, which was published in the November/December issue of *Engineering Dimensions*.

Government Liaison Program

More than ever before, PEO chapters, councillors and staff engaged with the province's elected officials by participating in training sessions, conferences, public meetings and other public policy and MPP events to further the Government Liaison Program's (GLP) objectives, under the oversight of the Government Liaison Committee.

To better inform PEO chapter members of the value for PEO of their getting involved with public policy and to provide training in government liaison activities, four training academies and congresses were held in 2012 compared to one in 2011:

- The Western and West Central Region GLP Academy and Congress, hosted by the Grand River Chapter in Cambridge on February 25, 2012, saw nearly 40 participants come together to hear MPP and other guest speakers and receive training in government liaison activities.
- The inaugural East Central Region GLP Academy and Congress was held at PEO headquarters on April 21, 2012. Participants included chapter GLP committee chairs and delegates from the six East Central Region chapters. A four-person panel comprising MPPs Soo Wong and

Helena Jacek and 2011 provincial election candidates Marisa Sterling, P.Eng., and Adam DeVita, P.Eng., was the highlight of this session.

- Professional engineers from eastern Ontario met on October 27 in Kingston for PEO's Eastern Region Government Liaison Academy and Congress. The event attracted politicians from all levels of government and chapter representatives from the seven chapters in the region.
- Representatives from PEO's Northern Region chapters participated in PEO's first Northern GLP Academy and Congress in Sudbury on November 24. Three northern MPPs attended and provided their perspectives on government relations.



Members of PEO's Oakville Chapter executive (centre, left to right) Anita Cwynar, P.Eng., vice chair, PEO Government Liaison Committee (GLC), Warren Turnbull, P.Eng., chapter chair, and Ankesh Siddhantakar, P.Eng., chair, Oakville Chapter GLP, accepted this year's GLP Chapter Award for their chapter's exceptional government relations work. Flanking the Oakville Chapter recipients are Jeannette Chau, MBA, P.Eng., PEO's manager, student and government liaison programs (left), Attorney General John Gerretsen, LL.B., QC (second from left), Barry Steinberg, P.Eng., CEO, Consulting Engineers of Ontario and chair of PEO's GLC (second from right), and PEO President Denis Dixon, P.Eng., FEC (right). Photo: Michael Seliske



PEO President Denis Dixon, P.Eng., FEC (right), welcomes AGM luncheon keynote speaker Glen Murray, then minister of training, colleges and universities.

Through its "Yes to OSPE, No to Bill 15" campaign, the GLP faced its first major test of the foundations that had been laid over the previous seven years to ensure PEO's voice is heard at Queen's Park. The issue was PEO's opposition to Bill 15: *An Act respecting the Ontario Society of Professional Engineers*. The objective of the campaign was for Ontario's legislators to understand PEO's position that while it fully supports the Ontario Society of Professional Engineers (OSPE), it believes the bill, if passed, could confuse the public and would conflict with the *Professional Engineers Act*. In a four-week span, GLP chairs and PEO staff met with dozens of MPPs from across the province. When the bill came for second reading in May and was referred to committee for detailed review, it was clear from the debate that PEO had made significant progress in assisting MPPs to understand the differences between PEO and OSPE. The proposed bill ultimately died on the order paper when the legislature was prorogued in October.



Desmond Gomes, P.Eng., treasurer, PEO Brampton Chapter, MPP Jagmeet Singh (Bramalea–Gore–Malton) and Ranjit Gill, P.Eng., GLP chair, Brampton Chapter.

Building on the relationships forged during the Bill 15 campaign, PEO celebrated its 90th anniversary at its sixth Queen's Park Reception on October 19. Despite the resignation of Premier Dalton McGuinty and proroguing of the legislature just two days earlier, 40 MPPs, including six ministers, participated in the event.

Centre engages engineers and other professionals

The Ontario Centre for Engineering and Public Policy (OCEPP) continued to engage the profession in the development of public policy. The centre's 2012 Public Policy Conference, held in Toronto, had Changing Expectations as its theme. More than 150 participants heard presentations from 10 speakers on such topics as Renaissance engineers, optimizing the Toronto transit network, throw-away buildings, the Niagara Tunnel project, social media for engineers, and the Society of Manufacturing Engineers' Take Back Manufacturing (TBM) initiative.

TBM and other strategies to win back some of Ontario's lost manufacturing capacity were the focus of a full-day symposium in October hosted by PEO's West Toronto Chapter and co-sponsored by OCEPP. The chapter also organized a discussion panel in April, titled Alberta Oil Sands: An Expert Panel on its Future, which drew 200 attendees and was co-sponsored by the centre.

OCEPP's quarterly Policy Engagement Series (PES) continued to contribute to policy dialogues that can benefit from an engineering perspective. The presentations in 2012 were: "Narrowing the commercialization gap" and "Fast-neutron reactors: A wiser solution to spent nuclear fuel?" The centre launched its first working group, formed as an outcome of the PES seminar on spent nuclear fuel. The nine-member group held its inaugural meeting on November 23, discussed holding a joint forum for engineers, policy specialists, government and the public in the spring, and plans to produce a policy paper for the consideration of PEO council on a "best path forward" for a PEO policy initiative on the use of spent nuclear fuel to produce further electricity.

Nine articles were published in the Policy Engagement section of *Engineering Dimensions* on topics including Ontario's *Green Energy Act*, photocatalytic noise barriers, energy sustainability and practical considerations in engineering. The centre also staged its fourth annual student essay competition, receiving the largest number of entries yet. The

winners, Caleb Gingrich and Julia Glinos, each received a \$500 award, registration at OCEPP's May 2012 policy conference, and publication of their essays in the Policy Engagement section of *Engineering Dimensions*.



The 2012 OCEPP conference included a panel discussion on the future of high-rise buildings. Panelists included, left to right, John Straube, PhD, P.Eng., Tim Gorley, Mark Brook, P.Eng., and Bernard Ennis, P.Eng., director of OCEPP.

New building signage for PEO head office



Early in 2013, new exterior building signage was added to PEO headquarters at 40 Sheppard Avenue West in Toronto. The branding of the building is in line with efforts to fully identify the building as an engineering centre.

ABBREVIATED FINANCIALS

BALANCE SHEETS

as at December 31, 2012, December 31, 2011 and January 1, 2011

			December 31, 2012	December 31, 2011 (Note 2)	January 1, 2011 (Note 2)
ASSETS	CURRENT	Cash in interest-bearing accounts	\$ 1,363,674	\$ 794,808	\$ 2,245,695
		Marketable securities at fair value	5,197,580	3,379,767	12,113,603
		Accounts receivable	334,954	1,098,513	258,241
		Prepaid expenses and deposits	203,488	242,258	166,870
		Other assets	58,860	—	—
			7,158,556	5,515,346	14,784,409
		Capital assets (Note 4)	36,467,068	36,908,779	28,559,805
		TOTAL ASSETS	43,625,624	42,424,125	43,344,214
LIABILITIES	CURRENT	Accounts payable and accrued liabilities (Note 17)	1,070,804	1,435,289	1,711,683
		Fees in advance and deposits	8,907,075	8,592,054	8,698,335
		Current portion of long-term debt (Note 6)	854,000	826,400	789,400
			10,831,879	10,853,743	11,199,418
	LONG TERM	Long-term debt (Note 6)	10,246,000	11,100,000	11,926,400
		Employee future benefits (Note 7)	6,929,600	6,250,139	5,787,807
		TOTAL LIABILITIES	28,007,479	28,203,882	28,913,625
		Net assets (Note 8)	15,618,145	14,220,243	14,430,589
		TOTAL LIABILITIES AND NET ASSETS	43,625,624	42,424,125	43,344,214

On behalf of council: Denis Dixon, P.Eng, FEC, president; Annette Bergeron, P.Eng., MBA, president-elect

STATEMENTS OF CASH FLOWS

years ended December 31, 2012 and December 31, 2011

			2012	2011
	OPERATING	Excess of revenue over expenses	\$ 1,397,902	\$ (210,346)
		Add (deduct) items not affecting cash		
		Write-off of building improvements	—	945,247
		Amortization	1,764,934	1,330,565
		Amortization—other assets	45,101	—
		Employee future benefits	2,231,300	1,930,337
		Change in unrealized losses on marketable securities	29,053	235,140
		Gain (loss) on disposal of marketable securities	(13,292)	280,420
			5,454,998	4,511,363
		Change in non-cash working capital items (Note 12)	752,865	(1,298,335)
			6,207,863	3,213,028
	FINANCING	Repayment of mortgage	(826,400)	(789,400)
		Contributions to employee future benefit plans	(1,551,839)	(1,468,005)
			(2,378,239)	(2,257,405)
	INVESTING	Proceeds of disposal of marketable securities	5,361,528	17,030,330
		Acquisition of marketable securities	(7,195,102)	(8,812,054)
		Additions to capital assets	(1,323,223)	(10,624,786)
		Additions to other assets	(103,961)	—
			(3,260,758)	(2,406,510)
		Increase (decrease) in cash	568,866	(1,450,887)
		Cash, beginning of year	794,808	2,245,695
		Cash, end of year	\$ 1,363,674	\$ 794,808

ABBREVIATED FINANCIALS

STATEMENTS OF REVENUE, EXPENSES AND CHANGES IN NET ASSETS

years ended December 31, 2012 and December 31, 2011

2012	2011
------	------

(Note 2)

REVENUE	P.Eng. revenue	\$ 14,367,398	\$ 14,224,220
	Application, registration, examination and other fees	5,452,203	5,189,979
	Building operations (Note 5)	2,848,021	2,354,380
	Advertising income	447,158	409,690
	Investment income	114,353	311,462
		23,229,133	22,489,731
EXPENSES	Staff salaries and benefits/retiree and future benefits	10,483,525	9,659,586
	Building operations (Note 5)	2,347,270	2,267,212
	Purchased services	1,179,776	1,331,419
	Amortization	960,662	728,513
	Volunteer expenses	869,324	945,188
	Engineers Canada	847,971	825,979
	Occupancy costs (Note 5)	846,281	652,279
	Computers and telephone	606,110	612,297
	Chapters (Note 15)	590,794	598,260
	Postage and courier	544,204	641,278
	Legal (corporate, prosecution and tribunal)	514,531	1,159,134
	Transaction fees	489,294	415,953
	Contract staff	331,831	341,088
	Consultants	248,933	274,272
	Printing	153,642	142,768
	Recognition, grants and awards	129,861	161,292
	Insurance	115,375	139,747
	Advertising	111,300	185,950
	Office supplies	110,545	116,729
	Staff expenses	107,307	167,161
	Professional development	103,056	64,715
		21,691,592	21,430,820
	Excess of revenue over expenses before the undernoted	1,537,541	1,058,912
	Council discretionary reserve expenses (Note 9)	(139,639)	(324,011)
	Write-off of building improvements (Note 10)	—	(945,247)
	Excess of revenue over expenses	1,397,902	(210,346)
	Net assets, beginning of year	14,220,243	14,430,589
	Net assets, end of year	\$ 15,618,145	14,220,243

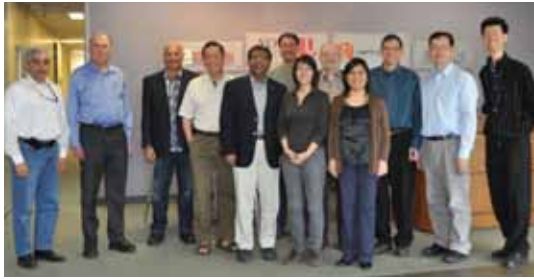
*The above information is an abbreviated version of PEO's 2012 financial statements. The full report appears in the May/June 2013 issue of *Engineering Dimensions*.

CHAPTER ACTIVITIES

PEO chapters—36 in total, organized into five regions across the province—were formed over 50 years ago to link members-at-large with PEO council, and to be a local presence for engineering. During 2012, they organized licence certificate ceremonies, hosted technical seminars and social events, provided a forum for members to exchange knowledge and ideas, and offered professional networking opportunities. Members involved in PEO chapter activities also continued a long-standing tradition of donating their time, energy and expertise to promoting awareness among grade school students of the role of math and science in their daily lives and engineering as a career, in particular during National Engineering Month (NEM), which marked its 20th anniversary in 2012.

- The **West Toronto Chapter**, in collaboration with the Society of Manufacturing Engineers, held a presentation in January 2012 on “Take Back Manufacturing” (TBM) that attracted 50 licence holders and guests. The TBM initiative encourages professionals, government, educators and industry to work together to rebuild Ontario’s declining manufacturing capacity. The chapter also co-sponsored a one-day symposium on TBM at the University of Toronto in October.
- The **Oakville Chapter** celebrated NEM in March with a full schedule of events, including “Power Me Up Engineering,” which brought hundreds of people to a local high school. The day featured presentations and activities by Engineers Without Borders’ Water for the World, a Speed Engineering—Career Info activity, and the “Power Up My Water” Challenge, where students were given the challenge of building a mini hydroelectric unit.
- In September, the **Algoma Chapter’s** annual 2012 golf tournament drew a record 70 golfers and raised nearly \$10,000 for various charities. In November, the chapter held a gala and dinner to celebrate “100 years of engineering in Sault Ste Marie.” The event included a video presentation of 10 engineering projects developed in the area during the last century, highlighting their impact on the community, and was chosen as the winning entry in the 2012 Chapter Leaders Conference’s story contest.
- The **Windsor-Essex Chapter** staged a weekend-long event called “Innovation Station—Engineering Your Life” in September at a local mall. Between 10,000 and 20,000 members of the public and students learned about the importance of engineering in their community, local companies, the profession and educational institutions. Four companies were also involved in a technology competition judged by five local professional engineers. The chapter also held a series of “Lean Concepts for Every Industry” breakfast talks. It launched its Mentorship Program in November with approximately 15 mentor/mentee pairs.
- In October, the **West Central chapters** jointly hosted a presentation on the innovative science and technology at Canada’s premier nuclear laboratories. The guest speaker, Randy Lesco, P.Eng., vice-president operations and chief nuclear officer, Atomic Energy of Canada Limited (AECL), touched on the technologies being developed at AECL laboratories, notable engineering achievements, and engineering efforts to convert nuclear science into practical applications.
- In November, the **Etobicoke Chapter** held a presentation on stem cell research, featuring a keynote address by Professor Peter Zandstra, PhD, P.Eng., from the University of Toronto Institute of Biomaterials and Biomedical Engineering. Attendees were educated on stem cells and some of the most current advances in this science, including how Canadian research has led to several stem cell-related discoveries. They also learned how engineers play a large role in advancing this field of science, due to their ability to design the appropriate bioreactors and invent the required technologies both to segregate stem cells in the manufacturing process and deliver them to the patient. The chapter also held its fifth annual Engineering Idol competition, where seven teams of students competed as “biomedical engineers” and developed their own designs for a cochlear implant or “bionic ear” prototype.
- In November, the **Scarborough Chapter** held its first-ever Mechatronics Cars Contest. Seven teams of grades 9 and 10 students designed, built and raced their own cars in an exciting contest. The winning team clocked 6.302 seconds for the 20-metre race, averaging 11.42 km/hour.
- The **Brampton Chapter’s** second annual Mathletics Competition was held in December with 124 students participating. The competition is designed to demonstrate the application of mathematics and engineering in everyday life. All the students who competed received participation certificates, while the three highest scoring students from each division were awarded prizes of \$100 for first place, \$50 for second place and \$25 for third place. The chapter’s annual Bridge Building Competition for students in grades 5 to 8 saw the participation of over 400 students from 30 schools.
- Over 150 people attended the **Mississauga Chapter’s** “Engineers as Entrepreneurs” workshop, which explored the required qualifications and attributes for success in small businesses and corporations. Mississauga-Streetsville MPP Bob Delaney brought greetings.
- The **Simcoe-Muskoka Chapter** found success during the year partnering with its OACETT Georgian Bay Chapter colleagues to jointly plan and hold events to raise the profile of the professions. Events in 2012 included a bridge-building competition, a hands-on, electrical and electronics workshop for students, and participation at the Simcoe County science fair. The annual PEO/OACETT Golf Tournament featured a record 130 players and numerous sponsors, whose donations were a source of scholarship funds for both chapters.
- The **Willowdale/Thornhill Chapter** hosted a Bridge Crushing Competition that saw budding engineers, technicians and technologists compete for the title of the strongest popsicle stick bridge. Competing teams comprised students in grades 9 to 11 from junior high and secondary schools. The bridges, built ahead of time, were judged on construction technique and quality, technical presentation, aesthetics and creativity, and their strength to weight ratio.

CHAPTER HIGHLIGHTS



The York Chapter executive held its first-ever chapter retreat in May 2012 at the Markham Convergence Centre (pictured). Under the theme, Past, Present and Future, current and past chapter executives took part in brainstorming sessions to gather information on how to generate the most success from chapter initiatives. The chapter also held a workshop in April to provide engineering graduates and EITs information on how to obtain the required work experience for licensure. Representatives from ACCES Employment and Skills for Change, which have programs to help newcomers and immigrants transition into the workforce, discussed their respective programs and offered advice on job search skills and how to succeed in a new job.



The Ottawa Chapter organized several NEM events in 2012, including the K'NEX Build Event at the Canadian Space and Aviation Museum in February (pictured), as well as a Kapla Structure Building Competition, a networking event for University of Ottawa engineering students, and the National Research Council's Engineering Challenge Competition at the Canadian Science and Technology Museum. The chapter also launched a six-month Mentorship Pilot Program, which connected nine mentors and 13 mentees to build mentoring relationships.



David Murray, P.Eng., FEC, Lambton Chapter education coordinator (left), discusses popsicle stick bridges with John Hazel, P.Eng., member, Education Conference Planning Committee at PEO's 2012 Chapter Education Conference. The annual event sees chapter volunteers, guest speakers and PEO staff working together and sharing ideas and expertise on how to ensure the best and brightest of future generations find their way to the profession.



Held March 7, 2012 at the Ontario Science Centre, the 22nd annual Engineering Innovations Forum was dedicated to engineering innovations in mining. Organized each spring to coincide with National Engineering Month, the forum is an opportunity to showcase the importance of engineering and technology and to encourage young people to consider careers in the profession. Panelists at the event included (left to right) Roy Slack, P.Eng., Cementation Canada; Susan Grandone, Barrick Gold Corp.; and Wisam Farjow, P.Eng., Mine Radio Systems Inc. CBC reporter Lucy Lopez moderated the event.

Visit www.peo.on.ca for a complete list of PEO chapters.



ONTARIO PROFESSIONAL ENGINEERS AWARDS (OPEA)

Eleven engineers were recognized with Ontario Professional Engineers Awards at the November 17 gala. Front row, left to right, David Michael Wills, P.Eng. (Citizenship Award); Catherine Karakatsanis, P.Eng., FEC (Engineering Medal–Management); R. Douglas Hooton, PhD, P.Eng. (Engineering Medal–Research and Development); Goldie Nejat, PhD, P.Eng. (Engineering Medal–Young Engineer); and Shaker A. Meguid, PhD, P.Eng. (Engineering Medal–Research and Development). Top row, left to right, Nikila Ravindran, MD, representing Comondore Ravindran, PhD, P.Eng. (Engineering Medal–Research and Development); James Wilfred Forbes, PhD, P.Eng. (Engineering Medal–Engineering Excellence); Bert Wasmund, PhD, P.Eng. (Professional Engineers Gold Medal); Stephen Carpenter, P.Eng. (Engineering Medal–Entrepreneurship); John Bianchini, P.Eng. (Engineering Medal–Management); and George Nowak, P.Eng. (Engineering Medal–Engineering Excellence).



ORDER OF HONOUR

Eight engineers were inducted at one of three levels into the PEO Order of Honour May 11 in Toronto. They were (clockwise from top left): Desmond Gomes, P.Eng., FEC (Member); Kam S. Leong, P.Eng., FEC (Member); Gary Mahony, P.Eng., FEC (Member); David C. Robinson, P.Eng., FEC (Officer); Rane Mahalingam, P.Eng. (Member); Gerard Raymond St. Denis, P.Eng., FEC (Member); Márta Ecsedi, P.Eng., FEC (Companion); and Raymond Linseman, P.Eng., FEC (Officer). The Order of Honour recognizes and pays tribute to professional engineers and others who have rendered conspicuous service to the engineering profession in Ontario, primarily through PEO.



G. GORDON M. STERLING ENGINEERING INTERN AWARD

The 2012 G. Gordon M. Sterling Engineering Intern Award was presented to Behnaz Ghoraani, PhD, EIT, as part of the Order of Honour gala on May 11. The award is designed to promote leadership development in the profession and is available to engineering interns participating in PEO's Engineering Intern (EIT) Program. A member of the EIT program since 2010, Ghoraani completed a PhD degree in electrical and computer engineering at Ryerson University and shares her time between Ryerson University and the University of Toronto, working as a research associate and developing signal and image processing techniques to improve the quality of treatments for patients with heart problems.

V.G. SMITH AWARD

The *Professional Engineers Act* provides for professional engineering licensure via technical examination, and each year PEO recognizes the exceptional accomplishments of those recently licensed through this route. The V.G. Smith Award is presented annually to a professional engineer who was licensed during the past year by writing technical exams. It is awarded to the candidate who gained the highest mark in any three examination papers, excluding the Complementary Studies and Professional Practice examinations. The recipient of the 2012 V.G. Smith Award was Jamie Main, who was licensed on December 14, 2011. Main successfully completed a total of seven technical exams with an average of 78 per cent. His three highest scores were 98 per cent, 85 per cent and 84 per cent.



PRESIDENT'S AWARD

Bob McDonald, recognized across Canada for his passion and promotion of science, education, the environment and public policy engagements, was the recipient of PEO's 2012 President's Award, which was presented by 2011-2012 President J. David Adams, P.Eng., MBA, FEC. The award is given to outstanding Canadian non-engineers who have supported, and contributed to advancing the engineering profession in Ontario. McDonald is well-known for making complex issues accessible to the general public. For almost 30 years, he has been a familiar face and the voice of science in Canada, starting with the children's television show *Wonderstruck* in 1986. He is currently host of a weekly radio science program on CBC radio called *Quirks & Quarks*, which has been on the air since 1992 and draws approximately half a million listeners each week.

This list includes those who have served on PEO committees and their subcommittees; task forces; chapter executives; the Government Liaison Program; and those who have represented PEO on external boards and advisory groups. PEO proudly recognizes the tireless work of these volunteers, who have

dedicated their time to advancing the profession and promoting the role of the association during the year. For more information on the opportunities available to participate in PEO, contact Viktoria Aleksandrova, MEd, committee coordinator, at valeksandrova@peo.on.ca.

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