

2017/2018 COUNCIL  
ELECTION

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# MEET THE CANDIDATES

PUBLISHED SEPTEMBER 5, 2017



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

**Presidential, Vice Presidential and Councillor Candidate Materials**

# 2017/2018 COUNCIL ELECTION

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## GENERAL ASSOCIATION COUNCIL ELECTION INFORMATION

Under the *Engineers and Geoscientists Act (Act)* and Bylaws of the association, Council is comprised of the President, Vice President, Immediate Past President, 10 elected Councillors, and four Councillors appointed by the Lieutenant Governor in Council (Government).

For the 2017/2018 Council Election, there are two candidates running for the office of President. The candidate that receives the largest number of votes will be elected to the office of President for a one-year term. Two candidates are running for the office of Vice President. The candidate that receives the largest number of votes will be elected to the office of Vice President for a one-year term.

Twelve candidates are running for the office of Councillor. The five candidates in this category receiving the largest number of votes will be elected to serve a two-year term as Councillor. Should an additional Councillor position become vacant as a result of the election, the candidate receiving the next highest number of votes will fill any vacancy that becomes available. This candidate will serve for a one-year term. In accordance with Section 9 (7) of the *Act*, if no member of a Faculty of Applied Science, Engineering or Geoscience in BC is elected, one will be appointed by Council for a one-year term.

All professional members and limited licensees are encouraged to vote.

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## CONTINUING COUNCILLORS

The following councillors will be entering the second year of a two-year term: Caroline Andrewes, P.Eng., Susan Hayes, P.Eng., Brock Nanson, P.Eng., Ross Rettie, P.Eng., FEC, and Larry Spence, P.Eng. Bob Stewart, P.Eng., will continue for one additional year in the role of Immediate Past President.

The following government appointees are continuing their term on Council: Suky Cheema, CPA, CA, John Turner, P.Ag. (ret), and David Wells, JD. An additional public member will be appointed by government in the fall.

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## Q&A WITH COUNCIL CANDIDATES

All Council candidates were invited to participate in an optional Q&A to allow candidates to share their thoughts on key issues for the association and to the professions of engineering and geoscience. Responses received from candidates by the deadline are included in the election material.

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# 2017/2018 COUNCIL ELECTION

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## ROLE OF THE NOMINATING COMMITTEE

The Nominating Committee is charged with seeking and selecting a list of candidates for election to Council that they believe best demonstrate the qualities needed for strong leadership of the association. Specifically, the committee sought candidates that have demonstrated skills in strategic thinking, organizational management, financial fluency, governance and strategic planning, in addition to a minimum of five years of experience as a professional member or limited licensee. To fulfil its mandate, the committee sought candidates through a series of Call for Nominations notices sent to the membership, and committee members reached out to potential candidates in regions throughout the Province of BC.

Under Bylaw 3(b), Nominating Committee candidates for the office of President must have served on Council for at least two full years prior to taking office, and for the office of Vice President, must have served at least one year on Council prior to taking office. Previous experience on Council is not required for candidates nominated by 25 members.

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## 2017 NOMINATING COMMITTEE MEMBERS

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### Chair

Michael Wrinch, P.Eng., FEC, FGC (Hon.)

### Council Appointees

Emily Cheung, P.Eng., FEC

John Clague, P.Geo., FGC, FEC (Hon.)

Frank Denton, P.Eng., FEC, FGC (Hon.)

Nathan Ozog, P.Eng.

Timothy Smith, P.Geo., Eng.L., FGC, FEC (Hon)

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### Branch Representatives

Iqbal Bhuiyan, P.Eng. (Vancouver)

Stella Chiu, P.Eng. (Tri-City)

Heqing (Albert) Jian, P.Eng. (Fraser Valley)

Piotr Mazur, P.Eng. (Sea to Sky)

Malcolm Metcalfe, P.Eng. (Okanagan)

Larry Neufeld, P.Eng. (Peace River)

Lee Rowley, P.Eng. (Vancouver Island)

John Stephens, P.Eng. (West Kootenay)

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## RENEWED BRAND FOR THE ASSOCIATION

On August 23, 2017, we launched our new brand identity and became Engineers and Geoscientists BC. This change will help us bring greater clarity to our role as the provincial regulator for the professions of engineering and geoscience.

The candidate statements were submitted prior to this change. References to the association as APEGBC or as the Association of Professional Engineers and Geoscientists of BC have not been adjusted.

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# MEET THE PRESIDENTIAL CANDIDATES



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

Candidate materials are not edited for grammar or typographical errors, but have been formatted for consistency. The opinions expressed by candidates are not necessarily those of the association, but are permitted to ensure an appropriate and robust debate of the issues that may be of importance to members of the association.

## PRESIDENTIAL CANDIDATE (one to be elected)



### **C.J.E. (Caroline) Andrewes, P.Eng. | Vancouver, BC**

*This candidate has been nominated by the Nominating Committee.*

It has been my privilege to represent our membership on Council, and I am honoured to be the Nominating Committee's candidate for President. It is through my participation with Council, with committees, branches, and divisions that I gained a deep understanding and appreciation for our association; we are innovative leaders, we have strong governance, and as a result we enjoy significant influence with our peers and stakeholders.

Regulation is evolving, and our relationship with key stakeholders requires us to respond to concerns through the adoption of a risk based approach to professional regulation. Application of appropriate controls relative to the risk posed by a member or perspective member's actions allows the opportunity to stand beside members when they demonstrate competence, and to manage members when they do not. We do this through: a clearly defined licensing process, a framework for quality management, opportunities for learning and development, and through a fair and transparent disciplinary process. With clear and effective processes and our focus on protection of the public, we maintain the credibility necessary to fulfil our mandate of advocacy. With this in mind – and in collaboration with stakeholders – we have the opportunity to evolve our regulatory framework to sustain the privilege of self-regulation in the future.

In speaking with members across the province, I have heard both our aspirations, and concerns. If elected, I commit to focus on:

#### Engagement – direct and open dialogue with all stakeholders.

- Continue to engage and encourage students, new graduates, and internationally trained professionals to pursue membership.
- Oversee reviews of our member consultation approach, and elections policy.
- Advocate for our members, hear their ideas, and celebrate their successes.
- Maintain open dialogue with our partners in Government, and other key stakeholders.

#### Innovation – foster innovation in regulation.

- Academic Accreditation: Monitor and support innovative accreditation pilot projects, and work closely with Engineers Canada to renew our national accreditation processes.
- Regulation: Be open to opportunities for implementing best practice in regulation, remain informed on the Canadian regulatory landscape, and be prepared to renew our regulatory framework with our partners in Government.
- Corporate Practice: Support a risk based approach to regulation of corporate practice, including alignment with APEGBC's Organizational Quality Management (OQM) framework.

#### Professionalism – reflect our core values in all aspects of our practice.

- Lead Council with a focus on governance, open dialogue, and integrity.
- Value performance and professionalism, creating an environment that fosters diversity and inclusion.

My commitment to organizational transparency, efficient operations, and governance remain primary tenets of my service with APEGBC. I deeply value diversity of practitioner, and practice, and believe rigour, process, and preparedness foster innovation. My broad personal and professional experience has proven value on Council and in committees, and I am well prepared to lead our high-functioning, collaborative, and diverse team.

Thank you for participating in Council elections, for your consideration, and for your support.

### **Education**

B.E.Sc. (Materials), University of Western Ontario, 1998

## **C.J.E. (Caroline) Andrewes, P.Eng., continued**

### **Professional History**

Independent Consultant, 2017  
Director – Risk Management, Creation Technologies, 2015–2017  
Director – Product Cost Engineering, Creation Technologies, 2011–2015  
Senior Engineer, Ballard Power Systems, 2000–2011

### **Association Activities**

Member of Council, 2014–present  
Member, Audit Committee, 2014–2015, 2016–present  
Member, Governance Committee, 2014–2015, 2016–present  
Member, Executive Committee, 2015–2016  
Volunteer, Brand Working Group, 2014–2016  
Member, Standing Awards Committee, 2008–2014  
Treasurer, DAWEG, 2007

### **Related Professional Activities**

Mentor, University of British Columbia Engineering, 2006–present  
Chartered Professional Accountant (CMA), 2011–present  
Governance Training (Risk Management), Institute of Corporate Directors, 2016  
General Visitor, Canadian Engineering Accreditation Board, 2016  
Governance Training, Canadian Board Diversity Council, 2014  
Member, APEO, 2003–2006

### **Community Involvement**

Panellist, Women in STEM (We for She, Creating Connections), 2017  
Volunteer, Trail running events, 2014–present  
Volunteer, First United Mission, 2010–2012  
Ballard Campaign Chair, United Way, 2006

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## **Q&A with Candidates**

### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

A significant challenge is – and has always been – balancing the dual roles of regulator and advocate, where protection of the public may at times put the two missions in conflict. In the present climate of competition, perceived failures to protect the public, and the aforementioned role confusion, the Association's most significant challenge is to maintain the confidence of stakeholders, ensuring we retain the privilege of self-regulation.

Withdrawal of self-regulation from the realtors in BC and from engineers in Quebec, and changes to the regulation of other professions indicates a shift in government's interest in regulation. While we hear from members the desire for increased member control of processes, we may find incongruence with the will of government, and our public stakeholders.

The success of our OQM program, the excellent work done by the Task Force on Corporate Practice, and recognition by peer associations of our innovative approach to registration and other operating processes combine to reinforce confidence our members and the Association's vision for the future.

## **C.J.E. (Caroline) Andrewes, P.Eng., continued**

### **What are the key issues facing the engineering and/or geoscience professions?**

The pace of development, rapid emergence of new technology, and an unwavering commitment to professionalism are factors influencing the key issues faced by members.

- Out-sourcing: Globalization offers significant opportunities for BC professionals to work outside of Canada, but also presents a significant challenge to monitor and regulate practice by professionals not based in Canada. The Association must maintain awareness of all activity in the province, and work with government and industry to ensure only licensed individuals practice in our province.
- Relevance: Technology tools, access to a global workforce, and economic pressure to keep costs low whilst producing high quality work in a compressed timeframe can have the impact of commoditizing our work. Ensuring the importance of professional practice is understood and valued by society is a significant issue for the professions.
- Talent pipeline: Demand for professionals is steadily increasing, and is outpacing our ability to educate and retain new entrants to the professions. Limited diversity has the impact of further limiting potential new entrants, and has been shown to slow innovation.

### **Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

Over the next five years renewing our legislation is likely, and offers the opportunity to modernize our regulatory model by adopting global, best practice. A new act will take time, and is dependent on the will and capacity of government. Act change will only come with significant consultation with members, their employers, and other stakeholders. As we look ahead we must be prepared to engage in discussion when the time comes. Our present investment in review of our processes, policies, and the framework for corporate practice will be the foundation for any proposals made by the Association.

In addition to review of our act, we are likely to see national governance shifts including a new model for academic accreditation, and improvements in our ability to practice across the country (mobility).

As we move forward we will benefit from the ground work laid by professionals in practice today and the fresh perspective brought by those just entering practice, making ours an even more inclusive, modern and forward-thinking Association.

We are leaders in Canadian professional regulation, and our position will only be strengthened by continued engagement and collaboration with our peers across the country. APEGBC and our exceptional volunteer members will continue to be recognized globally for the important contributions made through our practice guidelines.

## PRESIDENTIAL CANDIDATE (one to be elected)



**D.J. (Donald) Flintoff, P.Eng. | Richmond, BC**

*This candidate has been nominated by 25 members of the Association.*

The duty of the Association is to uphold and protect the public interest respecting the practice of engineering and geosciences. In return, the BC Government has permitted the members to be self-regulating. This is a privilege that we should not surrender easily or lose by indifference. The “ball is in our court”. Hence I’m standing for your President to bring about some of the following changes. Further, I endorse the vision of the reform slate available at the weblink below.

As the President is only elected for a one-year term, I will focus on the following three guiding principles:

**1. To restructure the internal management of the Association so that it will continue to operate efficiently, effectively and in a cost efficient manner going forward,**

- 1.1. As stated in the Act, to have “...council directly govern, control and administer the affairs of the Association” and to exercise all rights and powers granted in the Act. Following a review of the roles, rights and responsibilities of Council and staff leadership positions, Council will take a more active role in governing the activities of Staff. Council will be directly accountable to the members for its actions and those of its supporting Staff. Certain Bylaws will have to be amended to accomplish this.
- 1.2. To set the fee increases to closely match the Consumer Price Index increase,
- 1.3. To provide members transparency and accountability of APEGBC activities by providing electronic access to Council documents, and Association salaries and expenses.
- 1.4. The Association’s membership has grown from 22,532 in 2008 to 31,130 in 2016, almost a 40% increase in members. To address this increase in members, I plan to restore the separate roles of executive director and registrar. The registrar’s role will focus on establishing, maintaining and enforcing standards for the qualifications and practice of its members and licensees; while the executive director will focus on finance and operational matters.
- 1.5. To have Council liaison and represent the membership with government on all matters related to Bylaws and the Act.
- 1.6. I support the Association requesting changes to the Act when those changes are approved by the majority (51%) of the eligible Members. To formulate a policy that requires a 66% majority of those members who voted before implementing critical changes to the Act or Bylaws.
- 1.7. To prioritize APEGBC’s committees and divisions to accomplish the goals in my platform. Rather than increase staff and costs to accomplish those goals, I would reassign resources from the other committees and divisions to expedite the implementation of those goals within the one year term.

**2. To evaluate the effectiveness of the CPD program and its cost to the members, I propose:**

- 2.1. To measure the effectiveness of the CPD program. The CPD program must be more than simply attendance at a course and must contribute to one’s professional performance. Obviously, the CPD program of “one size fits all” must change.
- 2.2. To provide inexpensive CPD programs through various webcasts, such as “Lynda.com”, and to improve accessibility through the use of electronic media for the delivery of the CPD program.
- 2.3. To acknowledge and give credit for “in-house” training programs. Employer “in-house” training programs must be included in the CPD program to make it more cost effective for the newly-graduated and other members.

**3. To strive for excellence in engineering and the practice of professional engineering and geoscience, I propose:**

- 3.1. To enforce standards for the qualifications and practice of its members and licensees.
- 3.2. To proactively uphold and protect the public interest respecting the practice of professional engineering and geosciences and to actively pursue injunctions against those who breach the Act, make a false representation and, if actionable, seek exemplary damages.



## **D.J. (Donald) Flintoff, P.Eng., continued**

I believe that proactively upholding and protecting the public interest is the path to ensuring our continuation as a self-regulating profession. I hope you do as well. Hence, I'm asking for your support.

Your participation in our profession is necessary, so please vote!

### **Education**

B.A.Sc. (Electrical), University of Toronto, 1970

### **Professional History**

Senior Electrical Engineer, British Columbia Utilities Commission, 2007–2015

Electrical Superintendent, Simon Fraser University, 2004–2007

Manager of Engineering & Estimating, Enmax, 2002–2003

Various positions (Project Manager, Project Engineer, Electrical Engineer, Chief Electrical Engineer, Shareholder and Director), in consulting firms, 1970–2002

### **Related Professional Activities**

Writing and Communications Program – Advanced Study in Writing for Business and Professionals, SFU, 2015

Workshop, Structuring Ideas through Grammar, SFU, 2015

Field Safety Representative, BC Safety Authority, 1982–present

Numerous courses on safety and technical issues

### **Community Involvement**

Director, Thompson Community Centre, 2017–present

Member, Richmond Taxpayer Group, 2016–present

Warden, Camp 5 – Iron Ring Ceremony, 2008–present

Richmond Representative, YVR Aeronautical Noise Management Committee, 2013–2014

President, Richmond Centre, Provincial Riding Association, 1991–1995

Advisory Planning Commission, City of Richmond, 1980s

**Web link:** <https://www.reformslatevision.com>

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## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

In 2016, the “Ordre des Ingénieurs du Québec” was put under trusteeship by the Quebec justice ministry’s Office des professions after it determined that effective control of the profession and its financial stability were seriously affected, to the point of putting in doubt its capacity to protect the public. Although the trusteeship by the Quebec government stemmed from the 2015 release of the Charbonneau Commission report, we need to be cognizant that this reaction by government could occur in BC. In our Annual Report, it was noted that the Real Estate Council of BC saw their privileges of self-regulation revoked. Following the Real Estate Council’s loss of authority to self-regulate, the Premier of British Columbia confirmed the Province’s position that all organizations given the privilege of overseeing a profession’s self-regulation must act first and foremost in the public interest.

As we wish to remain a self-regulated profession, we need to demonstrate that we are capable of upholding and protecting the public interest. As such, we must remain vigilant and not become complacent about establishing, maintaining, and enforcing standards for the qualifications and practice of its members and licensees as required by the Act.

**D.J. (Donald) Flintoff, P.Eng., continued**

**What are the key issues facing the engineering and/or geoscience professions?**

The most concerning key issue is the negative perception acquired through our failures.

The breach of the Mount Polley Tailing Storage Facility resulted in the review panel calling for a concerted effort to improve professional practice in this area. Further, the panel stated that the situation is reminiscent of the conditions that prevailed in B.C. that resulted in the Association of Professional Engineers and Geoscientists of British Columbia Guidelines for Legislated Landslide Assessment for Proposed Residential Developments in B.C.

Events such as Mount Polley, the Station Square collapse (Save-On-Foods roof collapse) in 1988, the Elliot Lake Algo Centre Mall roof collapse in 2012, Ontario's Nipigon River bridge failure severing Trans-Canada Highway in 2015 are events that we can learn from. However, those events reflected negatively on our profession and reputation both with the public and the government.

To overcome this negative perception, priority must be given to the registration, professional practice, and investigation committees.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

After the reforms are in place, I would expect that:

- We still will be a self-regulating profession that enjoys the confidence of the provincial government and the public.
- We will enjoy pride in our profession through achieving excellence in engineering and geosciences to the benefit of BC and the world.
- We will have restored the level of trust and respect that the public places in the Association's membership.
- We will be confident that APEGBC will be truly representative of its membership, accountable to its membership; and will effectively carry out its mandate.
- We will be contributing to the global effort to stem climate change through appropriate professional decisions.
- We will be promoting our profession amongst the youth and especially the First Nations youth.

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# MEET THE VICE PRESIDENTIAL CANDIDATES



ENGINEERS &  
GEOSCIENTISTS  
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## VICE PRESIDENTIAL CANDIDATE (one to be elected)



### **D.I. (David) Harvey, P.Eng., Struct.Eng., FEC | Richmond, BC**

*This candidate has been nominated by the Nominating Committee.*

I feel privileged to be nominated as a candidate for Vice President, and am indeed grateful for this exciting opportunity to serve the APEGBC membership in a new capacity. If elected, I will endeavour to serve the public interest and to promote the interests of the APEGBC members and licensees. As part of the Registration Committee, I have worked hard to develop programs for assisting foreign-trained professionals and minorities to achieve APEGBC membership. I have seen the value and enrichment that this innovative regulatory change has brought to engineering and geoscience and I will continue to help develop new programs to facilitate access to our professions.

My goal will be to maintain and enhance practice standards, and continue engagement with our membership regarding regulatory change. I am acutely aware, however, that we need to find better ways to promote awareness of the issues that face us. In my

opinion, we need to streamline and update our regulatory approach to reflect the changes in the way our professions are practiced in the modern world. We are indeed fortunate in having an ongoing, productive relationship with government, which considers APEGBC to be a trusted partner in the delivery of government initiatives. This important relationship places engineers and geoscientists in a key societal role, protects our professional standing, and underpins the high degree of respect shown to both professions by the public. We will need to build on our dialogue with government to enhance our regulatory mandate, and to reinvigorate our engagement with industry to expand our hugely successful Organizational Quality Management program into other areas of mutual benefit. This may include extending regulation to corporations, with the intent of benefitting both the membership and industry, while expanding public protection.

To strengthen the high regard that the public has for professional engineers and geoscientists, it is vital to promote our professions, and the value we bring to society. We should, therefore, focus on our achievements, and celebrate the contribution we make to the wellbeing of our fellow citizens.

Kindly consider my election platform – I look forward to receiving your support.

### **Education**

M.Sc. (Civil Engineering), University of Bristol, 1982

B.Sc. (Civil Engineering), University of Bristol, 1969

### **Professional History**

Senior Structural Specialist, Associated Engineering, 1982–present

### **Association Activities**

Member of Council, 2013–2016

Member, Registration Committee, 2013–present

Member, Standing Awards Committee, 2012–present

Member, Structural Qualifications Board, 2001–present

Member, Executive Committee, 2014–2015

### **Related Professional Activities**

Member, Board of Directors, Structural Engineers Association of BC, 2008–present (President, 2016–present)

Member, Structural Awards Panel, Institution of Structural Engineers, 2006–2011

Member, Executive Board, Institution of Structural Engineers, 2005–2010

Member, Council, Institution of Structural Engineers, 2002–2011 (President, 2006–2007)

### **Community Involvement**

Member, Vancouver Recital Society, 2007–present

Member, Vancouver Chamber Choir Society, 2015–present

Member, Early Music Vancouver Society, 2015–present

Council member, Dunbar Heights United Church, 2015–2016

## **D.I. (David) Harvey, P.Eng., Struct.Eng., FEC, continued**

### **Awards and Honours**

RA McLachlan Memorial Award, APEGBC, 2009

Fellow (FEC), Engineers Canada, 2008

Professional Service Award, APEGBC, 2002

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### **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

In my opinion, our Association's most critical challenge is to be seen to be always acting in the public interest. At a time when governments are taking action when professions are perceived to be putting their own interests first, keeping professional regulation within the control of the members must be our first priority.

**What are the key issues facing the engineering and/or geoscience professions?**

BC's engineers and geoscientists are a talented, well-qualified group of professions that serve the public well. We are fortunate to enjoy the privilege of self-regulation. Key issues we face are:

- Maintaining standards as our senior professionals move towards retirement
- Adapting to demands made on professionals by the constantly developing international marketplace
- Updating Regulatory requirements to accommodate the increasing delivery of engineering and geoscience through very large corporations that are often based outside of Canada.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

I am confident that APEGBC will build on its established position as a leading progressive regulator of professional engineers and geoscientists in Canada. I envisage ongoing operational improvements, continued strong leadership, and enhanced member services. I expect to see greater public protection, stronger professional advocacy, and better recognition by the public of the contribution of engineering and geoscience.

## VICE PRESIDENTIAL CANDIDATE (one to be elected)



### **K.V. (Katherina) Tarnai-Lokhorst, P.Eng., FEC | Victoria, BC**

*This candidate has been nominated by the Nominating Committee.*

I am deeply honoured to be selected by the Nominating Committee as a Vice Presidential Candidate. I also received the endorsement of the reform slate. This shows my ability to build relationships and open dialogue channels within APEGBC. I am in the unique position to re-unite our membership on issues of public interest.

Over the last four years on Council and a myriad of APEGBC committees, I have gained an intimate working knowledge of our organization's operations and finances, and the complexities of managing our dual responsibility as regulator and member advocate. As Vice President, I will share this knowledge with you through clear, open and transparent communication.

Professional regulation requires significant resources to verify the appropriate knowledge, abilities, expertise and ethics of new, current and returning members who practice engineering and geoscience. We keep fees as low as they are in part thanks to thousands of hours of volunteer service given by members on more than 50 committees across the province. I intend to ensure APEGBC continues to be fiscally viable and prudent.

Some of the advancements we made during my tenure on Council include

- developing fairness policies and guidelines in support of all members, especially regarding diversity and learning;
- enhancing the recognition of technologists and other qualified members of the engineering and geoscience team as students and as Licensees with independent practice scopes;
- enhancing existing positive relationships with government representatives regarding engaging with APEGBC in all matters pertaining to engineering and geoscience;
- expanding consultation practices on major issues;
- highlighting ways that advocacy for the professions supports public interest;
- expanding the network of 30 by 30 Champions in support of the recruitment and retention of women in engineering (please see my website for more information on this Engineers Canada initiative);
- educating and building relationships with the people of British Columbia through outreach.

APEGBC has two legislated roles: advocate for members and regulator of engineering and geoscience. These roles are interwoven because the benefits members receive enhance public safety. For example, the Mentoring Program provides members with direct, one-on-one support and guidance from peers to improve the technical and soft skills of professional practice. Another example is the competency-based assessment system, developed to make the registration process smoother for applicants, staff and volunteers on the Registration Committee and the Fairness Panel; this system is now nationally-recognized for its ability to provide a more objective analysis of each applicant's experience. In the same way, the Organizational Quality Management (OQM) program is in demand as a value-added vehicle for certifying organizations. It is very important to me that these opportunities, arising from member ideas and input and developed by staff, continue to be fostered at APEGBC.

We remain in a critical period. With the challenges other Canadian professional regulators have experienced in the last few years, our government has said that public interest may be jeopardized if we focus on member advocacy instead of public safety. Now is the time for strong leadership to promote the legitimate advantages inherent in the dual purpose of APEGBC: our member advocacy activities enhance our regulatory role as responsible public stewards who value the safety of our communities.

If you have any questions or comments, please contact me via my website.

### **Education**

MBA (General), University of Phoenix, 2007

B.A.Sc. (Mechanical Engineering), University of British Columbia, 1987

### **Professional History**

Adjunct Professor, Mechanical Engineering, University of British Columbia, 2016–present

Principal, The Lokhorst Group Ventures, Inc., 2008–present

Instructor, Mechanical Engineering, Camosun College, 1994–1996, 2001–present

Mechanical Engineer, Boeing Canada, de Havilland Division, 1988–1991

## **K.V. (Katherina) Tarnai-Lokhorst, P.Eng., FEC continued**

### **Association Activities**

Member, Executive Committee, 2016–present  
Director, APEG Foundation, 2015–present (Chair, 2016–present)  
Member, ASTTBC-APEGBC Joint Board, 2015–present  
Member, Mentoring Committee, 2014–present  
Member of Council, 2013–present  
Member, Registration Committee, 2015–2016  
Member, Audit Committee, 2013–2015  
Member, Governance Committee, 2013–2015  
Outreach Activities Volunteer, Victoria Branch, 2008–2014 (Outreach Coordinator, 2012–2014)

### **Related Professional Activities**

Doctor of Social Science Candidate, Interdisciplinary Studies, Royal Roads University, 2014–present  
Member, Education Council, Camosun College, 2008–2013  
Chair, Education Council, Camosun College, 2009–2011  
Member, Camosun College Board of Governors, 2009–2011  
Chair, Academic Governance Council of British Columbia, 2010

### **Community Involvement**

Director, CCA Board, University of Victoria & Camosun College, 2015–present  
Healthy Minds Ambassador, Camosun College, 2012–present  
Peer Coach, Camosun College, 2011–present  
United Way Campaign Co-Chair, Camosun College, 2014–2015

### **Awards and Honours**

Fellow (FEC), Engineers Canada, 2015  
Engineers Canada-TD Insurance Meloche Monnex Scholarship, 2015

**Web link:** [www.kathylokhorst.com](http://www.kathylokhorst.com)

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## **Q&A with Candidates**

### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

As a regulatory authority, the key challenge APEGBC continues to face is the risk of losing the privilege of self-regulation. Many British Columbians, members and non-members, do not have a clear understanding of what self-regulation means. We must educate our members and the general public about the benefits and requirements of a self-regulated profession. It is only by supporting self-regulation that we will have the privilege of keeping it. Self-regulation is not only the handing out of licenses to qualified applicants. Self-regulation engages professionals in regulatory processes, such as defining the roles and responsibilities of registered members, imperative for us in APEGBC where we have great diversity in our disciplinary knowledge and expertise. Self-regulation allows professionals to effectively respond to our changing world and to ensure the safety of the increasing expanse of technology that we develop. Self-regulation enables members to guide the public in determining when a professional member should be consulted and to ensure that he or she is a member in good standing, legally permitted to fulfill these duties.

### **What are the key issues facing the engineering and/or geoscience professions?**

Beyond self-regulation, two of the key issues facing our professions are expanding the library of practice disciplines and enhancing fairness, equity, diversity and inclusion in our professions.

#### *Disciplines of Practice*

Engineering and geoscience are expanding professions, with new disciplines identified at a rapid pace. Several times in the last year, members have approached me about defining software engineering and clarifying where professional regulation is required within computer science. Integrated engineering has also become an increasingly popular discipline and requires formal definition for the protection of the public. Documenting these emerging disciplines is necessary for two reasons: to educate non-engineers and non-geoscientists about which professional is qualified to conduct the work required; and to ensure public safety by regulating the unregulated.

**K.V. (Katherina) Tarnai-Lokhorst, P.Eng., FEC continued**

*Fairness, Equity, Diversity and Inclusion*

Recent surveys continue to highlight the disparity between the salaries of men and women in our professions. This is only one of the areas that persist in inequity, in spite of members' efforts to rectify it. Although British Columbia contains one of the most inclusive societies in the world, we continue to exhibit the unintended consequences of implicit bias that are only sex-based but also based on age, body shape and race. We should assess our salary and compensation data (anonymized, of course!) to determine the areas in which we require additional practice guidelines to help us become more inclusive.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

I see APEGBC as the preeminent professional regulatory body in British Columbia, recognized across Canada and around the world as the leader in regulating professional practice and enhancing the reputation of our professions. It will be British Columbian engineers and geoscientists who will be instrumental in elevating our technological reach and societal influence to make the world a better place.



2017/2018 COUNCIL  
ELECTION

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# MEET THE COUNCILLOR CANDIDATES



ENGINEERS &  
GEOSCIENTISTS  
BRITISH COLUMBIA

Candidate materials are not edited for grammar or typographical errors, but have been formatted for consistency. The opinions expressed by candidates are not necessarily those of the association, but are permitted to ensure an appropriate and robust debate of the issues that may be of importance to members of the association.

## COUNCILLOR CANDIDATE (five to be elected)



### **D.W. (Doug) Barry, P.Eng. | Fort St. John, BC**

*This candidate has been nominated by the Nominating Committee.*

I have been a member of APEGBC for 32 years and have served 9 years with the Peace River Branch executive.

I see APEGBC as having two distinct roles: one as a provincial regulator of engineering and geoscience and the other as an advocate for members. I will ensure that APEGBC continues to be financially viable and prudent. My goal is to drive continuous improvement within APEGBC to ensure that we remain strong and effective and are trusted by government, the public, and our members.

I have been practicing engineering in a high consequence and highly regulated industry and have seen the benefit of effective federal and provincial regulations together with sound engineering and geoscience, resulted in a solid record of delivering safety, environmental stewardship, reliability, and efficiency. I will bring the following skills and

experience:

- Participated in senior operations leadership teams implementing effective multi-year plans and driving performance to meet goals
- Directed an assurance and compliance project that consisted of analyzing systemic breakdowns and implemented systemic management system improvements.
- Lead a “culture of learning” from evaluating failure and successes within process safety, H&S and regulatory frameworks.
- Directed a maintenance project organization accountable for long range forecasting, and delivering on 400 projects and a \$200 million annual budget.
- Lead leaders and organizations up to 65 professionals. Provided professional, leadership, and team building coaching and mentoring. I love people and am passionate about seeing them being successful!

I bring an understanding of both big-city and rural BC. Being based in Vancouver for 18 years and in Fort St John for 14 years, my career has given me many opportunities to work in diverse communities across BC. With your support, I am prepared to work hard as a councillor and will use a facts and data approach to ensure that our engineering and geoscience profession remains world-class and thrive under good regulatory governance.

### **Education**

B.Sc. (Mechanical Engineering), University of Alberta, 1985

### **Professional History**

Manager, Operations Excellence and Operations Management System, Enbridge, 2017–present

Director, Field Engineering, Spectra Energy, 2016–2017

Director, Assurance & Compliance Projects, Spectra Energy, 2016

Director, Maintenance Projects, Spectra Energy, 2013–2015

Director, Operations Engineering, Spectra Energy, 2008–2013

### **Association Activities**

Member, Nominations and Elections Review Task Force, 2017–present

Volunteer, Peace River Branch, 2008–present (Chair, 2009–2012)

Member, Nominating Committee, 2013–2015

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## **Q&A with Candidates**

### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

Across Canada and the world, we are seeing increased public pressure demanding higher accountability from both industry and regulators to ensure higher levels of public safety and environmental stewardship and protection. The status quo is unacceptable and continuous improvement and striving for excellence is required to ensure that APEGBC remains highly relevant as a member regulator. This improvement will be achieved through:

- Listening to governments, stakeholders, and members

**D.W. (Doug) Barry, P.Eng. continued**

- Learning from past failures and breakdowns; sustaining these learnings
- Providing opportunities for efficiency and reliability
- Remaining fiscally responsible to members by providing value and keeping membership fees low
- Embracing a culture of continuous improvement that strives for excellence; excellence is achievable through strong leadership and effective team work.

**What are the key issues facing the engineering and/or geoscience professions?**

Trust. I am a student of Stephen MR Covey's "Speed of Trust" and offer you my high integrity, positive intent, and strong ability earned from over 32 years of experience. If I am elected as councillor, I will strive to ensure that APEGBC remains a trusted and trustworthy body.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

In 5 years APEGBC continues to be a highly respected self regulatory of the Engineering and Geoscientist profession in the Province of BC. This is demonstrated by:

- APEGBC's planning goals being met or exceeded and intended objectives being met
- APEGBC being the advisor of choice for both governments and the public
- High public safety being achieved through excellence in engineering and geoscience

## COUNCILLOR CANDIDATE (five to be elected)



### **P.J.E. (Paul) Hatton, P.Eng. | Coquitlam, BC**

*This candidate has been nominated by the Nominating Committee.*

APEGBC represents our future direction and provides support and governance for all professional engineers and geoscientists in BC. I wish to contribute my nearly 30 years of consulting and leadership experience to give back to my fellow engineers, geoscientists and the province. I want to offer my candidacy and time to support our Association, helping to enhance the present council and our plans for the future.

I have enjoyed being both an APEGBC and community volunteer for many years and have always wanted to help further with APEGBC. One of my first real mentors in engineering, Bob Affleck, worked on the council for many years and, as president, signed my professional engineering registration certificate. This meant a lot to me and has inspired me to eventually pursue membership on the council. Of course, APEGBC has come a long way since then and I believe this to be a good time for me to have a chance to provide similar guidance and example to our young professionals that was once provided to me.

As a potential “rookie” member to the council, I hope that my fresh insight and approach will provide a new look at all aspects of our future governance, including our Strategic Plan 2017–2020. With your help, I hope to achieve that goal.

### **Education**

B.A.Sc. (Mechanical Engineering), University of British Columbia, 1987

### **Professional History**

Vancouver Office General Manager, Engineering Manager, Mechanical Engineering Manager, Project Manager and Project Engineer, Energy and Chemicals, CH2MHill Energy Canada Ltd., 1997–2017  
Project Engineer, NLK Consultants Inc., 1987–1997

### **Association Activities**

Volunteer, Competency Assessor, 2009–present  
Volunteer, Registration Interviewer, 2006–2013  
Reviewer, EIT/GIT Online Reporting System, 2003–2010

### **Community Involvement**

Committee Member, Site Coordinator, Canadian Cancer Foundation, Run for the Cure, 2010–2017  
Member, Knights of Columbus, District 5540, 2004–present (Council Executive, 2010–2012)

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## **Q&A with Candidates**

### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

The key challenge facing APEGBC is public opinion of our self-governing body. Can engineers and geoscientists safely and securely police themselves while at the same time protecting the public interest. I believe we can, and maintain a good and positive public image while doing so.

**P.J.E. (Paul) Hatton, P.Eng., continued**

**What are the key issues facing the engineering and/or geoscience professions?**

One issue facing engineering and geoscience today is being able to provide the public, and our politicians, with better information so they may have a more complete understanding not only of what we do, but why we do it. There is so much misinformation going around the internet it is hard for the average citizen to really understand our profession and the why in what we do. Specifically, we must overcome the negative publicity regarding large capital and infrastructure works and help the public, and our politicians, understand the why through better education and realization.

Another is to ensure our continued funding and development of our Women in Engineering programs, supporting the continually advancing membership of women within our profession. Diversity is key to our survival and the ongoing increase in women in our universities and profession can only help to pave the way to a successful future in engineering.

Finally, the environmental side of our legacy projects holds a key element to our future. What are we to do with the many negative industry impacts that still have not yet been attended to? What engineering and geotechnical solutions can we provide to ensure our children are left with clean water and a healthy environment in which to grow?

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

APEGBC must adapt and mold itself, creating an updated public face to be sure that our profession and our projects are understood properly and completely by the public and our politicians. This will ensure that we can safely continue to create and develop necessary engineering and geoscience projects for the benefit of all, especially our children, in our future world.

## COUNCILLOR CANDIDATE (five to be elected)



### **C.J. (Catherine) Hickson, P.Geo., FGC | Burnaby, BC**

*This candidate has been nominated by the Nominating Committee.*

I believe that APEGBC is an important institution for maintaining high professional standards, continuous learning and fostering the development of young, highly qualified engineers and geoscientists. As British Columbian's we need to maintain the very high standards of professionalism, subject matter competency and know how that we have become famous for around the world. Whether it is innovative new products or techniques, building great projects or maintaining infrastructure – from the home renovation to the mega project – APEGBC is an integral part of what makes BC professionals sought after in the global marketplace. I would like to contribute to what makes BC great.

#### **Education**

Ph.D. (Geology), University of British Columbia, 1987

B.Sc. (Geology), University of British Columbia, 1982

#### **Professional History**

President, Tuya Terra Geo Corp., 2014–present

Chief Operations Officer & Director, Dajin Resources Corp., 2014–present

Adjunct Professor, University of British Columbia, Department of Earth, Ocean and Atmospheric Science, 1996–present

Vice President Exploration and Chief Geologist, Alterra Power Corp, 2008–2013

Research Scientist Level 5, Geological Survey of Canada, 1982–2008

#### **Association Activities**

Member, Nominating Committee, 2013–2015

Presenter, "Where is All the Hot Water in British Columbia? A Look at Geothermal Energy in BC", Annual Conference and AGM, 2016

Video participant: Careers in Engineering and Geoscience, 2014

#### **Related Professional Activities**

Short course co-chair, Resources for Future Generations, 2015–present

Director, Canadian Geothermal Resources Council, 2013–present

Member, Selection Committee: Provincial and Territorial Outstanding Geoscientist Award, 2012–2014

#### **Community Involvement**

President, Wells Gray Wilderness Society, 2016–present

Chair, Wells Gray World Heritage Submissions Committee, 2016–present

Secretary, Burnaby and Regional Allotment Garden, 2015–present

Member, Explorers Club, Canadian Chapter, 2004–present (Regional Director for BC Yukon, 2014–present)

Chair, Wells Gray – North Thompson River Geopark, 2010–present

#### **Awards and Honours**

Honorary Doctorate of Technology, University of the Fraser Valley, 2015

C.J. Westerman Memorial Award, APEGBC, 2010

Departmental Merit Award, Natural Resources Canada, 2008

Team Merit Award, Natural Resources Canada, Earth Science Sector, 2007

Team Merit Award, Natural Resources Canada, Earth Science Sector, 2005

Recognition of Service Plaque, *Instituto Geológico Minero y Metalúrgico de Perú* (INGEMMET), 2004

Web link: [www.ttgeo.ca](http://www.ttgeo.ca)

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## **Q&A with Candidates**

C.J. (Catherine) Hickson, P.Geo., FGC, did not choose to participate in the optional Q&A.

## COUNCILLOR CANDIDATE (five to be elected)



### **L. (Lianna) Mah, P.Eng., FEC | Burnaby, BC**

*This candidate has been nominated by the Nominating Committee.*

I have actively volunteered with APEGBC throughout my career. APEGBC provided me with the opportunity to gain different skills and meet new people. Together, we have developed initiatives that have made APEGBC a leader amongst regulators.

As members of a self-governing profession, we each have a voice and the opportunity to make changes that benefit our profession. We can make a difference, not only to our profession, but also to the lives of people in the places where we work. This is why I am running for Council—because I believe we can make a difference.

If elected to Council I will advocate for transparent governance, increased diversity, and improved member engagement. We need to hear from our membership, in particular, our Young Professionals—our future leaders. APEGBC needs to understand your issues and concerns, so it can be more relevant to you.

We need to continue to communicate the need for sustainable and resilient designs to protect the public and our environment from the potentially devastating impacts of earthquakes and climate change.

I'll work to raise the profile of our profession, as protectors of public interests, innovators, and stewards of the environment.

As a Councillor, I will bring my passion, experience in leadership, and a collaborative, consensus-building approach to contribute to the continuous improvement of APEGBC as a progressive self-governing regulator.

### **Education**

M.Eng. (Environmental Engineering), University of British Columbia, 1987

B.A.Sc. (Civil Engineering), University of British Columbia, 1986

### **Professional History**

Vice President, Business Development, Associated Engineering, 2009–present

Various roles, Associated Engineering, 1990–2009

Project Engineer, M. M. Dillon Ltd., 1987–1990

### **Association Activities**

Director, APEG Foundation, 2010–2016 (Chair, 2012–2016)

Member, Women in Engineering and Geoscience Task Force, 2013

Member, Professional Renewal Task Force, 2007–2009

Member, Editorial Board, 1994–2005, 2007–2010 (Chair, 2001–2003)

Member, Competency-Based Assessment Steering Committee, 2004–2005

Member, Professional Practice Exam Review Committee, 2003

Member, Investigation Committee, 1999–2003

Member, Civil Applications Committee, 1997–2001

Member, DAWEG, 1991–2013

### **Related Professional Activities**

Advisor, Master of Engineering Leadership, UBC, 2014–present

Advisor, Women in Science and Engineering BC/Yukon, NSERC, 2010–present

Guest Lecturer, Civil Engineering, UBC, 2007–present

Member, Integrating Foreign-Trained Engineers Committee, Engineers Canada, 2003–2004

Member, Communications Committee, ACEC-BC, 1998–2003

Member, Civil and Structural Advisory Committee, British Columbia Institute of Technology, 1995–1999

### **Community Involvement**

President, Seaforth Chinese School, 2003–2013

Member, Scholarship Committee, Science Council of BC, 1994–1995

**L. (Lianna) Mah, P.Eng., FEC continued**

#### **Awards and Honours**

Award for Supporting Women in Engineering, Engineers Canada, 2016  
Professional Service Award, APEGBC, 2002

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#### **Q&A with Candidates**

##### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

Maintaining the privilege of self-governance is paramount and a key challenge, especially with a new provincial government. Increasing member engagement is critical to self-governance, so we can understand member needs and hear member feedback on APEGBC initiatives.

Governments have revoked an association's authority to self-govern when it perceives that the association has not acted with the highest ethical standards, and held the public's interests as paramount. As a regulator, our challenge is to stay up-to-date and understand the issues that impact the regulation of our professions, such as climate change, sustainability, and globalization. We must adapt and improve governance to meet the changing needs of society.

With a new provincial government, APEGBC needs to engage its representatives to understand the government's position on the self-regulation of the engineering and geoscience professions. Engaging the new government will also provide an opportunity to help government identify priorities for safeguarding public safety, such as replacing or upgrading aging infrastructure, and improving infrastructure resilience to earthquakes and climate change.

While APEGBC's primary role is to regulate the engineering and geoscience professions, it is challenged to undertake a dual role: to promote and market its membership. We need to raise the profile of engineers and geoscientists as dynamic and innovative professionals who bring value to society and improve the daily lives of the public. Delivering this dual role will raise APEGBC's profile with the public and our membership, and improve member engagement.

##### **What are the key issues facing the engineering and/or geoscience professions?**

We work in a rapidly changing environment; technological change is fast-paced, climate change is impacting infrastructure and public safety, and globalization is affecting our traditional workflows. Meanwhile, women continue to be under-represented in our professions, in particular, in management and on boards; improved diversity fosters innovation and holistic solutions.

Technology has made time-consuming, manual tasks more efficient; while globalization has commoditized some of the work we do. Our professions must adapt and evolve to remain competitive. BC engineers and geoscientists are known for our technical excellence and innovation. We must promote these skills, adjust traditional delivery processes, and develop new skills, such as communication, facilitation, and project management, required to deliver today's more complex projects.

Climate change is one of the key issues facing us today. We are seeing more examples of extreme weather, such as storms and wildfires, as well as sea level rise and increasing temperatures. As engineers and geoscientists, we have a duty of care to understand the potential impacts of climate change, inform our clients, and implement adaptive measures. We also have a duty to consider sustainability measures that will reduce greenhouse gas emissions and mitigate environmental impacts.

While numbers of female engineers and geoscientists have steadily increased, there are still few senior women professionals, and even fewer women in senior management. We need to understand the issues that act as actual or virtual barriers to advancement, promote retention of women in our professions, and support advancement of women to executive levels and corporate boards.

##### **Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

Looking ahead five years, my vision for APEGBC is as follows:

APEGBC is respected as a progressive association which sets the standard for self-regulating, professional bodies and protection of public interests, in Canada and abroad.



**L. (Lianna) Mah, P.Eng., FEC continued**

APEGBC represents a diverse, active, and engaged membership, who consider APEGBC to be a model for efficient and transparent governance.

BC engineers and geoscientists are respected locally and globally for developing innovative, sustainable and resilient systems that improve our built and natural environments.

In collaboration with academia and industry, APEGBC contributes to developing academic programs for engineering and geoscience that meet the needs of society today and in the future, and attract bright young people into our professions.

## COUNCILLOR CANDIDATE (five to be elected)



**C.R. (Chris) Moser, P.Eng. | Langley, BC**

*This candidate has been nominated by 25 members of the Association.*

Thank you for taking the time to read this Candidate Statement.

I have been a Professional Engineer based in BC for the last 35 years. While I have enjoyed the challenge of the work and am proud of what I have done as an Engineer, I am concerned about the Engineering Association I am a member of.

I am currently serving on the APEGBC council (since 2015) and am seeking re-election as I believe the issues around Continuing Professional Development (CPD) have not been addressed.

When I sought election to a Council position in 2015 I did so because I was very frustrated with the APEG BC position and actions on the issue of CPD. I felt that the Association was not listening to the concerns of its members and that there needed to

be a change in how CPD was being considered. I did not see that the CPD as proposed did anything more than provide a superficial solution to a real problem and I wanted to see changes to avoid having the Association lose relevance to a large portion of the members.

I believe that CPD needs to be driven from the top down with APEGBC monitoring the training programs provided by the employers of Engineers, rather than forcing Engineers to demonstrate attendance at often irrelevant training sessions.

Over the last two years I have argued against the need to get "something" in place to placate the public that progress is being made on this issue, as I can see that once a superficial solution has been achieved, the impetus to get the right solution in place will disappear. I have made my position known with then Minister of Advanced Education Andrew Wilkinson, and going forward I want to continue to advocate for a more meaningful CPD program within APEGBC and with the new Minister of Advanced Education.

I can see that there is a workable solution via expanding the existing OQM program to include monitoring of training provided to Engineers by their employers by APEGBC and I have stressed this solution over the last two years.

I seek your vote to continue to work towards a valuable CPD program.

### **Education**

B.A.Sc. (Chemical Engineering), University of British Columbia, 1980

### **Professional History**

Senior Process Specialist, Chemtrade Electrochem, 2012–present

Vice President, Lignol Innovations, 2010–2012

Proprietor, Moser Inorganic Technologies, 2006–2010

Director of Technology, Chemetics International, 1984–2006

### **Association Activities**

Member of Council, 2015–present

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## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

As a self regulating authority the key challenge for APEGBC is finding a balance between protecting the public interest and maintaining the trust and co-operation of the member Engineers. The need to be positive and pro-active in protecting the public by helping Engineers excel in their work rather than by enforcing unworkable policies that frustrate the Association members.

**C.R. (Chris) Moser, P.Eng. continued**

**What are the key issues facing the engineering and/ or geoscience professions?**

The distinction between Engineers and Technicians is becoming lost, and with it the relevance of being a self regulating authority. Engineers need to be encouraged to pursue excellence and to demonstrate their inherent talent and ingenuity.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

The Association has a very old constitution that badly needs to be updated and re-written. I don't think this is just a five year task but it is a long term task that needs to start immediately so that the Association can remain an independent self-regulating body.

## COUNCILLOR CANDIDATE (five to be elected)



### **R.N. (Nimal) Rajapakse, P.Eng. | Vancouver, BC**

*This candidate has been nominated by the Nominating Committee.*

I am honoured to be nominated as candidate for council, by both the APEGBC nominating committee and as a member of a reform slate of candidates. The vision of the slate, which I endorse, is available at the weblink below. I have held leadership positions in the post-secondary education sector of British Columbia and Canada. I was instrumental in developing significant collaborations with industry, municipalities and international partners. Canadian engineering and geosciences professions are among the best in the world and as members we have a responsibility to advance and protect our profession and its stature in the society. We have seen challenges on several fronts due to regulatory issues, declining interest in registration, professional development, globalization and others. My primary goals are to strengthen communication between APEGBC and members, position APEGBC to serve the best interests and aspirations of members while executing the regulatory role, strengthen the services available to members through APEGBC, support and modernize the accreditation of engineering

and geosciences programs in Canada and promote diversity and equity in our professions. As a member from academia, I would also promote stronger collaborations between APEGBC and post-secondary institutions to educate and mentor the next generation of engineers and geoscientists.

### **Education**

D.Eng. (Structural Engineering), Asian Institute of Technology, 1983

M.Eng. (Structural Engineering), Asian Institute of Technology, 1981

B.Sc. Hons. (Civil Engineering), University of Sri Lanka, 1977

### **Professional History**

Professor, School of Engineering Science, Simon Fraser University, 2009–present

Dean, Faculty of Applied Sciences, SFU, 2009–2015

Vice-President (Research & International), Carleton University, 2015–2016

Professor, Department of Mechanical Engineering, University of British Columbia, 2000–2009 (Head, 2000–2007)

### **Related Professional Activities**

Member, Board of Directors, Electricity Human Resources Canada, 2010–2016 (Member, Executive Committee, 2014–2016)

Member, Mayor's Advisory Committee on Health Technology Initiatives, City of Surrey, 2013–2015

Member, Mayor's Advisory Committee on Clean Energy Initiatives, City of Surrey, 2010–2015

Member, Audit Committee, National Council of Deans of Applied Sciences and Engineering, 2011–2013

Member, Program Review Committee for M.Eng. in Design and Manufacturing, Ontario Graduate Council, 2011

Member, NSERC Strategic Grant Selection Committee (VAPP-B), 2005–2008

### **Community Involvement**

Benefactor, Maithree Orphanage for Girls, Colombo, Sri Lanka, 2014–present

Volunteer, Heart and Stroke Foundation of BC, 2001–2010

Volunteer, Heart and Stroke Foundation of Manitoba, 1995–2000

### **Awards and Honours**

Fellow, Engineering Institute of Canada, 2009

Meritorious Achievement Award, APEGBC, 2005

Fellow, Canadian Academy of Engineering, 2002

Horst Leipholz Medal, CSCE, 2000

**Web link:** <http://reformslatevision.com>

## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

Engaging the membership to convey to the public the value of our professions and ensuring that public interest is a shared responsibility.

**What are the key issues facing the engineering and/or geoscience professions?**

Preserving the integrity of the registration and enforcement systems and working with the post-secondary institutions to engage new graduates to pursue professional registration.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

To position APEGBC as a member-driven agent of change to advance our professions.

## COUNCILLOR CANDIDATE (five to be elected)



### **C.C.O. (Conor) Reynolds, P.Eng. | Vancouver, BC**

*This candidate has been nominated by the Nominating Committee.*

I am very pleased to have been nominated to serve on APEGBC Council. As an APEGBC member, I have gained an appreciation for the association's mandate to protect the public through regulating and governing the engineering and geoscience professions. At the same time, as an active volunteer with APEGBC, I recognize that APEGBC plays an important role to promote and protect the professions, and to provide its 33,000 members with resources that enable them to thrive in an increasingly complex world.

I am a professional engineer working in regional government, and prior to that I conducted interdisciplinary, policy-relevant research on environmental issues. I pride myself on my diplomacy and communications skills, and my ability to identify pragmatic solutions to complex challenges.

As a new Councillor I would like to focus on:

- understanding and improving member engagement processes;
- building stronger relations with the Provincial government and other organizations; and
- ensuring that resources and services provided by APEGBC meet the needs of its members.

The new APEGBC Strategic Plan identifies the need to modernize the *Engineers and Geoscientists Act* to reflect the evolution of the professions and the regulatory mandate of the association. This is a defining time for the organization. As an engaged member, I would welcome the opportunity to actively contribute to APEGBC's development and governance.

### **Education**

Ph.D. (Resource Management and Environmental Studies), University of British Columbia, 2011

M.A.Sc. (Mechanical Engineering), University of British Columbia, 2002

B.A.I. (Mechanical Engineering), University of Dublin, Trinity College, Ireland, 1998

### **Professional History**

Program Manager, Air Quality and Climate Change, Metro Vancouver, 2017–present

Senior Project Engineer, Air Quality and Climate Change, Metro Vancouver, 2011–2017

Research Associate, Civil Engineering, University of Minnesota, 2010–2011

Research Engineer, Mechanical Engineering, UBC, 2002–2005

### **Association Activities**

Member, Climate Change Advisory Group, 2012–present (Vice Chair, 2015–2017), (Chair, 2017–present)

Member, Sustainability Committee, 2005–2011 (Vice Chair, 2009–2010)

Author of several *Innovation* articles on energy and sustainability, 2007–present

### **Related Professional Activities**

Adjunct Faculty Member, Institute for Resources, Environment and Sustainability, UBC, 2014–present

Member, Air and Waste Management Association, 2005–present

Technical Reviewer, A&WMA's Magazine for Environmental Managers, 2008–2011

Author of over 30 peer-reviewed articles on transportation, air pollution, energy and environment

### **Community Involvement**

Mentor, Metro Vancouver Mentorship Program, 2017–present

Treasurer, Newport on Main Strata Corporation, 2012–2014

### **Awards and Honours**

Fellowship, Natural Sciences and Engineering Research Council, 2005–2008, 2010–2011

Scholarship, Transportation Association of Canada, 2008

Scholarship, Air & Waste Management Association, 2007

Scholarship, Engineers Canada, 2006

Scholarship, Robert Caton Memorial Award, 2006

## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

As a regulatory authority, I understand that APEGBC must establish and maintain high standards for its practicing members, and that it must hold its members responsible to practice in accordance with those standards. This is at the foundation of APEGBC's self-regulatory privilege. However, APEGBC's diverse members have expectations of its association that go beyond regulation, such as promotion of the professions and provision of resources. In recent years, APEGBC has faced criticism from its members related to how the association and Council interacts with the membership, and concerns related to the transparency of its operations. As a new member of Council, I would seek to better understand these criticisms and concerns. I believe that APEGBC needs to rebuild confidence amongst the membership that the association can simultaneously protect the public, promote the professions, and provide useful services to members.

**What are the key issues facing the engineering and/ or geoscience professions?**

APEGBC's members play many critical roles in society, ranging from developing natural resources, to designing the buildings where we live and work, to operating the utility infrastructure that supports our cities, to innovating the many technologies that improve our lives. Collectively, we make an enormous contribution to the high quality of life we are fortunate to experience in British Columbia.

However, along with great opportunities for engineers and geoscientists, there are challenges related to practicing in an increasingly complex and interconnected world. Members need timely access to useful information, tools and guidance in order to stay competitive and provide value to their clients. Climate change, in particular, is becoming an increasingly important issue for many APEGBC members, both in terms of adaptation to changing climatic conditions as well as requirements to reduce greenhouse gas emissions from our projects. APEGBC is in a unique position to provide many value-added services to its members, but it will be essential to provide these services efficiently and cost-effectively.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

As practicing members of the association, it is in our best interest for APEGBC to be an effective and progressive regulator that protects the public. APEGBC and its members are trusted by its stakeholders to be stewards of the engineering and geoscience professions. However, APEGBC staff and Council must continue to work hard to communicate with its members, the Provincial government, and the broader public about the role of the association and how it might evolve over time.

## COUNCILLOR CANDIDATE (five to be elected)



### **M. (Mark) Roozbahani, P.Eng., FEC | West Vancouver, BC**

*This candidate has been nominated by 25 members of the Association.*

I am honored to have been a member of APEGBC since 1999, and currently to be a 25-member nominee as part of a "reform slate" of candidates. The vision of the slate, which I endorse, is available at the web-link below. If you share our vision for needed reforms, please vote for reform slate candidates only. Should I be elected, I would strive to address a number of challenges facing our Association. Among them are the following:

**Openness and Transparency.** I would seek your input to improve openness and transparency to conform to best practice. As examples, the new Council should disclose all 25-member petitions it receives, it should disclose details of all APEGBC expenditures, and it should assure an impartial consultation policy with disclosure of all inputs received.

**Engineers & Geoscientists Act.** It is critical that the new Council withdraw requests for changes to the Act until such time that it consults the membership impartially, and seeks and respects membership votes on proposed Act changes.

**Roles and Responsibilities.** There is a need to clarify the roles and responsibilities of members, councillors and staff so as to assure that these adhere to best practice. The new Council needs to establish its respect for and trust in the membership as being fully capable of acting in the public interest; and councillors should be responsible for policy and strategic development in consultation with members and staff.

### **Education**

M.B.A., University of Phoenix, 2002

M.Sc.Eng. (Environmental Engineering), Islamic Azad University, 1996

B.Sc.Eng. (Chemical Engineering), Isfahan University of Technology, 1990

### **Professional History**

Principal, Mark Roozbahani Consulting Ltd, 2016–present

Deputy Chief Building Official, City of Vancouver, 2013–2016

Head of Facilities, International Criminal Court, 2011–2013

### **Association Activities**

Member, Investigation Committee, 2002–2011, 2016–present

Member, Building Codes Committee, 2005–2009

### **Related Professional Activities**

Member, Certified Facility Manager, International Facility Management Association, 2011–present

Senior Member, Certified Energy Manager, Association of Energy Engineers, 2008–present

Member, Society of Fire Protection Engineers of BC, 2001–present

Certified Professional Program Advisory Committee, City of Vancouver, 2011–2013

### **Community Involvement**

Member, Multicultural Advisory Council of BC, 2010–2011

### **Awards and Honours**

Fellow (FEC), Engineers Canada, 2015

**Web link:** [reformslatevision.com](http://reformslatevision.com)

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## **Q&A with Candidates**

Mark Roozbahani, P.Eng., FEC did not choose to participate in the optional Q&A.



## COUNCILLOR CANDIDATE (five to be elected)



### **A.E. (Albert) Sommerfeld, P.Eng. | Prince George, BC**

*This candidate has been nominated by the Nominating Committee.*

As a member of Council I will work hard to ensure that the opportunities enjoyed by Professional Engineers and Geoscientists are protected for current and future members. A strong provincial body acting both in the interest of its members and the public ensures that we will continue to enjoy the privilege of serving the public within a regime of self-regulation. I will work to ensure that the practice of professional engineering and its provincial body remains current, relevant, visible and respected.

My experience includes many years of consulting, industry, and public sector employment. This has shaped my view of the engineering profession in all sectors. I am recognized by colleagues and clients as someone who can reach consensus on difficult issues without compromising principles, taking into consideration the essential needs and concerns of all stakeholders. I have extensive experience working on collaborative (and sometimes not collaborative) committees. I also have experience in

dealing directly with government bureaucracy and understand well how to navigate within this environment.

My qualifications for this role include:

- Professional Engineer in BC and Ontario.
- A wide range of experience including consulting, industry, and public sector.
- MBA education
- Budget responsibility at a Director level.
- Participation on provincial committees.
- Ongoing interaction with government departments and agencies at executive levels, giving me insight into the decision making processes within government.

I look forward to representing you at APEGBC Council and working hard to ensure our profession continues to be a respected voice in British Columbia.

### **Education**

M.B.A., University of Northern British Columbia, 2010

B.Eng. (Civil), Lakehead University, 1988

### **Professional History**

Director, Development Planning and Projects, Northern Health Authority, 2012–present

Director, Engineering and Sustainability, Northern Health Authority, 2009–2011

Director, Capital Planning, Northern Health Authority, 2006–2008

Senior Civil Engineer, Woodbridge Foam Corp., 1997–2006 (Senior Project Manager, 2001–2006)

Senior Design Engineer, Sze Straka Engineers Ltd., 1988–1997

### **Related Professional Activities**

Member, Corporate Capital Planning Working Group, Northern Health, 2012–present

Co-Chair and Member, Planning Steering Committees, Northern Health, 2012–present

LEED GA, Canadian Green Building Council, 2015

Member, Provincial Environmental Tech Team, Ministry of Health, 2009–2012

### **Community Involvement**

Volunteer, Hart Community Association, 2007–2008

Volunteer, Waterloo Girls Minor Hockey Association, 2004–2005

Assistant Coach, Waterloo Minor Soccer Association, 1997–1998

**Web link:** [www.linkedin.com/in/albert-sommerfeld-76015112](http://www.linkedin.com/in/albert-sommerfeld-76015112)

**Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

The key challenge for APEGBC is that it remains relevant to the public and to its members. The work of the association must be recognized as not only protecting the public but enhancing society as well. At the same time the membership needs to obtain value from the association, which can only occur if council is actively engaging and listening to its members.

**What are the key issues facing the engineering and/or geoscience professions?**

I believe that the key issues facing our professions today are essentially the same as they have been for many years. First and foremost, how do we ensure that the public is protected? Secondly, how do we define what it is we do and what is within the scope of our profession? The world of engineering, and engineering specialization, is growing exponentially. How do we continue to regulate our profession in this environment? Then thirdly, how do we translate the foregoing into appropriate compensation for services delivered? We have seen our fees, salaries and public standing eroding compared to other professions, all while our exposure to liability continues to increase. We need to reset this scenario.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

Over the next five years it is my hope that APEGBC becomes much more visible to the general public in a positive way. We need to articulate the value proposition engineering brings to our clients. APEGBC needs to be ready to respond to and influence government decisions.

## COUNCILLOR CANDIDATE (five to be elected)



### **K. (Kamran) Tabarraee, P.Eng. | Vancouver, BC**

*This candidate has been nominated by 25 members of the Association.*

I am honored to be a 25-member nominee as part of the “reform slate of candidates”. I strive for change. Should I be elected, I commit to addressing the challenges facing APEGBC as a regulatory body and an association committed to its members.

**Member Roles re. the Public Interest.** In the past two years, the Association has sought to marginalize members' rights and responsibilities in the name of public interest. An example is Council's requests to Government for amendments to the Engineers and Geoscientists Act without membership support as demonstrated by membership votes. If elected, I commit to working towards APEGBC meeting the public interest, while complying with and respecting member's roles in assuring this.

**Operation and Transparency.** The association is struggling with operational optimization. Spending the budget on countless unnecessary social events and repetitive trainings that are barely received by the members is just an example of the outdated administrative vision. Other examples relate to the current election policy and the selection process in recruitment of volunteers in different committees and programs. If elected, I commit myself to work towards implementing changes that helps with efficient, modern and transparent operation of the association affairs.

**Promoting the Engineering Profession.** APEGBC is responsible for promoting the engineering and geoscience professions. However, it has failed to adequately communicate the significance of these professions to the public, and to address challenges such as competitive compensation and recruitment. If elected, I commit myself to work towards promoting the value of our professions while urging a strategic vision to assure sustainable recruitment and improved benefits for engineers and geoscientists.

I trust that my enthusiasm and experience in variety of engineering, leadership and volunteer roles will be an asset in implementing constructive reforms within the Association.

Please visit the website below to review our vision and identify the reform slate of candidates. If you share our concerns/vision for meaningful reforms, please vote for reform slate candidates only.

### **Education**

M.A.Sc. (Electrical and Computer Engineering), University of British Columbia, 2011

B.Sc. (Electrical Engineering – Honors in Power and Electronics), Amirkabir University of Technology, 2009

### **Professional History**

Project Leader, T&D Technology & Testing, Powertech Labs Inc. (a subsidiary of BC Hydro), 2011–present

### **Association Activities**

Volunteer, Career Awareness Program, 2016

### **Related Professional Activities**

Member, Management and Professional Employees Society, Powertech Labs Inc., 2011–present (Vice President, 2014–2015; President, 2016; Treasurer, 2017)

Member, ASTM International, 2016

Member, ANSI C119 Standard Committee, NEMA, 2016

Member, IEEE PES Substations Committee, IEEE, 2015

**Web link:** [reformslatevision.com](http://reformslatevision.com)

## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

There are three major issues: regulation, internal affairs and promoting the profession of engineering. Out of the three, regulation is the most critical issue and needs to be carefully undertaken. APEGBC is self-regulated and must focus on maintaining the self-regulation status as its highest priority. The association must launch a series of changes to proactively implement modern and robust regulatory methods suitable for the fast changing world of today and tomorrow. Having said that, the challenge is to meet the members' needs while focused on the primary role of regulation.

**What are the key issues facing the engineering and/or geoscience professions?**

The key issues facing the profession of engineering today are public status of the profession and recruitment considering the retirement of the baby boomers. In the past decade, the association has not been able to educate the public point of view in maintaining a high social status for professional engineers. The recruitment of talented young engineers has also become an increasingly difficult process. While one depends on another, it is the responsibility of the APEGBC to proactively strive to promote the profession. There is a need for a clear and effective action plan to overcome these issues.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

Ideally, a self-regulating association with clear, efficient and transparent procedures for managing its affairs while acting towards the public interest with proactive measures in place for future growth and development. The association must not undergo a complete organizational turmoil, rather changing towards a sustainable and modern regulatory model in which the members do matter.

## COUNCILLOR CANDIDATE (five to be elected)



### **J.D. (Jeremy) Vincent, P.Geo. | Vancouver, BC**

*This candidate has been nominated by 25 members of the Association.*

I am honoured to have the support of my colleagues for the nomination for Council. My motivation to serve is simple and twofold:

- Contribute back to the profession and assist with guiding its path forward.
- Provide a voice for geoscientists while working collaboratively with our engineer colleagues.

Our duty as professionals is to maintain high professional and ethical standards so that the public interest is served and placed ahead of our own. Doing this will maintain the public's trust in our collective abilities, and it will allow us to continue to enjoy the privilege of being a self-regulated professional association. My goals while on Council are the following:

- Work to implement APEGBC's three-year strategic plan.
- Provide a balanced voice to ensure the Association supports its engineers and geoscientists (e.g., tools to track CPD, best-practice standards, soliciting feedback through surveys, etc.).
- Ensure that ethical and professional standards remain at the forefront, and that appropriate actions are taken for those not following these standards.

I am a Professional Geoscientist that has worked in the exploration and mining industry since 2005. I am keen to work with the membership to ensure we keep the association stable, moving forward, and in a good place for the next generation of engineers and geoscientists. I look forward to your support.

### **Education**

Applied Geostatistics Citation, University of Alberta, 2015

B.Sc. Hons. (Earth and Ocean Science), University of Victoria, 2005

### **Professional History**

Manager, Production and Development Geology, Capstone Mining Corp., 2013–present

Senior Geologist, Silver Standard Resources Inc., 2011–2013

Consultant, Snowden Mining Industry Consultants, 2008–2011

### **Association Activities**

Member, Geoscience Experience Review Panel, 2016–present

Mentor, Mentoring Program, 2016–present

### **Related Professional Activities**

Member, Mineral Exploration Roundup Organizing Committee, Association for Mineral Exploration BC, 2010–2015

Member, AMEBC 100th Anniversary Organizing Committee, Association for Mineral Exploration BC, 2012

### **Community Involvement**

Director, UVic SEOS Alumni Bursary Committee, UVic SEOS Alumni Association, 2013–2016

Mentor, UBC Tri-Mentoring Program, University of British Columbia, 2008–2014

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## **Q&A with Candidates**

### **APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

CPD remains a divisive issue among the APEGBC membership. Should it be compulsory or not? Other associations have moved toward making CPD mandatory, and it appears that APEGBC is moving this way as well. The purpose of CPD is to ensure we all remain current and aware of accepted best practices in our respective industries. Our code of ethics expects us to remain informed, to strive to advance the body of knowledge within our practice areas, and to provide opportunities for the professional development of our colleagues.

Essentially, CPD is already compulsory through our code of ethics. I support mandatory CPD from the perspective that it is our duty to remain informed, but my stance on the minimum requirements is not as firm. There are valid arguments

**J.D. (Jeremy) Vincent, P.Geo. continued**

against enforcing minimum-hour thresholds, and I don't feel that access to conferences and courses is as easy or affordable for certain groups of the membership. Where I do stand firm, is that we must document and demonstrate that we are staying current (e.g., online tracking system). We must be able to stand up in front of peers and allow them to judge that we have taken all reasonable steps to remain current in our respective practice areas so we can continue to protect the public interest.

**What are the key issues facing the engineering and/or geoscience professions?**

After the Mt. Polley tailings dam failure in 2014, the public's faith in engineering and geoscience was shaken. The public perception, whether correct or not, was that it was just another company trying to cut corners. The event garnered international media coverage and resulted in a black eye not only to BC's and Canada's mining industry, but to mining around the world.

As engineers and geoscientists, it is up to us to ensure we uphold high professional and ethical standards in order to avoid a similar type of incident. In an age where pressures are ever growing to produce better work faster and cheaper, we can't forget that we are obligated to take a stand to ensure the proper action is taken to protect the public's interest, even if it is an unpopular choice.

Maintaining the public's trust of engineering and geoscience is critical to sustaining our professions. The ability to self-regulate engineering and geoscience is a privilege, not a right, and I believe we must continue to practise in a manner that meets or exceeds the standards we set for ourselves. This will go a long way to ensuring we maintain public trust and confidence so that we can leave the association in a stable position for future generations of engineers and geoscientists.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

Looking ahead five years, I see APEGBC as a diverse and inclusive organization that is actively working to promote gender balance in the professions. I want APEGBC to continually engage its membership on initiatives to improve its role, whether that is through continued modernization of the Engineers and Geoscientists Act, a streamlined membership application process, timely resolution of complaints and enforcement of discipline, or through collaboration with other provincial and territorial associations across Canada to improve regulatory processes.

I see APEGBC as an organization that takes a proactive stance to managing the continually evolving professional landscape. This includes early recognition of new technical sub-disciplines, collaboration with educational institutions to ensure students are enrolled in the correct courses, and public outreach programs promoting the professions to keen and enthusiastic youth looking to become tomorrow's professional engineers or geoscientists.

## COUNCILLOR CANDIDATE (five to be elected)



### **T.C. (Tim) Watson, P.Eng. | Vancouver, BC**

*This candidate has been nominated by the Nominating Committee.*

I feel passionate about the opportunity to stand for election to the Council of APEGBC and give back to the association that has allowed me to have a tremendously rewarding career. My 35 years of domestic and international engineering and project experience has provided me with a good understanding of the issues facing engineers and geoscientists in BC today.

My experience in project development, project and construction management and general management has equipped me with the experience and skills in the areas of leadership, corporate governance and financial management to allow me to make a significant contribution to APEGBC.

While there are a number of issues facing APEGBC today, I believe it is important to focus on a few issues that are important to the membership and will make the association stronger going forward. In my view these issues are;

- Governance and organizational transparency is a key issue facing many associations today. To assist with improving the quality of the governance and providing the necessary transparency clear and concise communication is required with APEGBC's membership.
- It is important that APEGBC be a strong, self-regulating body representing its membership and protecting the public interest with respect to the practice of engineering and geoscience.
- It is important to make provincial registration procedures across Canada more consistent and provide easier mobility for members to move from one provincial jurisdiction to another. Part of this is to encourage new graduates and professionals trained in other countries to pursue obtaining their professional registration.
- The need to drive for gender diversity within the engineering community is important. I have worked almost my entire career in the mining industry, which historically has been male dominated. While this situation is slowly changing in Canada, the change has only come about by hard work and the need to constantly push for change. It is simply not about hiring more women, but ensuring women are receiving the same compensation for the same job and being given the same opportunities to advance.

### **Education**

Advanced Management Program, Harvard Business School, 2011  
B.A.Sc. (Chemical Engineering), University of British Columbia, 1982

### **Professional History**

Senior Vice President, Teck, 2016–present  
Senior Vice President, Project Development, Teck, 2007–2016  
COO Power and Process Division, Amec, 2006–2007

### **Association Activities**

Member, 1984–present

### **Related Professional Activities**

Chair, Industry Advisory Council, Department of Chemical and Biological Engineering, UBC, 2014–present  
Member, CIM, 2008–present

### **Community Involvement**

Various coaching roles within Kerrisdale Little League and Vancouver Community Baseball, 2008–2014

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## **Q&A with Candidates**

**APEGBC is the regulatory authority charged with protecting the public interest with respect to the practice of engineering and geoscience in the province of BC. What is the key challenge facing APEGBC?**

With the recent change in the Provincial Government it is not clear and may not be clear for some time whether the Minister who will be responsible for APEGBC will be proposing any fundamental changes to how the Association operates

**T.C. (Tim) Watson, P.Eng. continued**

and regulates its members. It will be important to educate the incoming government about APEGBC and how self-regulation plays an important role in ensuring the protection of the public interest with respect to the practice of engineering and geoscience in BC.

**What are the key issues facing the engineering and/or geoscience professions?**

Globalization is a key issue facing the engineering and geoscience community today. There are a number of factors that play into the issue of globalization of engineering services. Large domestic and international engineering and construction firms need to be competitive in the market place which can drive them to locations where the cost of engineering is lower than what they can get domestically. In addition to the cost competitive environment of the market place the engineering requirements of a very large resource development or infrastructure project may not be able to be fully met by the local or domestic services providers. An additional factor may be as economies diversify the technical expertise available domestically may not be sufficient to meet the engineering requirements of the new development project.

Fortunately many BC and Canada based engineering firms are very competitive in the international market place. This is due to Canadian engineers being very well educated and trained, but there is the need for ongoing professional development to ensure our engineers and geoscientists remain knowledgeable and capable of using the necessary tools to remain highly productive and innovative in a competitive global market.

**Looking five years ahead, what is your vision for APEGBC as a professional regulatory body in BC?**

In five years I would like to see that APEGBC is recognized by its members and other Provincial Regulatory Authorities as best in class with respect to self-regulation; that its members are complimentary about the transparency of the governance structure and that they believe they have had a voice in the direction that APEGBC has moved.





**ENGINEERS &  
GEOSCIENTISTS**  
BRITISH COLUMBIA

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