

2021 COUNCIL ELECTION

MEET THE CANDIDATES

PUBLISHED SEPTEMBER 14, 2021



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

President and Councillor Candidate Materials

2021 COUNCIL ELECTION INFORMATION

The 2021 Council election marks Council's [transition to a reduced size of 12](#) as required by the *Professional Governance Act*. All candidates selected to stand for election were approved by the Nomination Committee using a [merit-based selection process](#). The Committee has nominated four candidates for the position of Councillor and one candidate for the position of President. This year, only one candidate was determined to meet the required criteria in the president category and is therefore elected by acclamation.

Beginning this Fall, Council will appoint one of its elected members to serve as Vice President for a 1-year term. This governance best practice, well-established in similar organizations, enables Council to select a Vice President who can best meet the needs of the Council, while also increasing the number of Councillor positions available each year by one seat.

This year, registrants will elect two Councillors. To help you make an informed choice, candidate election statements are provided below.

[CANDIDATES TO BE ELECTED](#)

PRESIDENT

Only one candidate is nominated for the position of President. This candidate is elected by acclamation for the office of President and will serve a one-year term.

COUNCILLOR

Four candidates are running for the office of Councillor. The two candidates in this category receiving the largest number of votes will be elected to serve a three-year term as Councillor.

[CONTINUING COUNCILLORS](#)

The following Councillors will be continuing their terms on Council: Michelle Mahovlich, P.Eng., P.Geo., Jessica Steeves, P.Eng., Kevin Turner, P.Eng., FEC, FGC (Hon.), Dr. Brent Ward, P.Geo., FGC, FEC (Hon.). Larry Spence, 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, Leslie Hildebrandt, ICD.D., LLB, Emily Lewis, CPA, CMA, and David Wells, JD.

2021 COUNCIL ELECTION

PRESIDENTIAL CANDIDATE



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

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PRESIDENTIAL CANDIDATE (Elected by Acclamation)



C.L. (Carol) Park, P.Eng. | Vancouver, BC

I am grateful to have been selected by the Nomination Committee as the presidential nominee. I am passionate about supporting EGBC's primary focus of protecting the public and ensuring public safety. This is an exciting opportunity for me to continue to serve Engineers and Geoscientists BC, and support our professions and regulatory body at a point in my career where I can draw on many years of professional and leadership experience to support the role of President. With prior experience as a Councilor and Vice President, I am familiar with the governance structure and the work of the Council. As a Biomedical Engineer I bring experience and perspective that is different from some more traditional engineering disciplines. Working in the healthcare industry, I bring a deep commitment to public safety through ensuring the safe use of medical devices in patient care.

It is an especially important time for EGBC as it continues its transition to the new Professional Governance Act. Through ongoing positive engagement with the Government of BC, EGBC will ensure the public interest is enhanced while achieving a balance with appropriate levels of regulatory requirements that will allow it to remain effective and improve its responsiveness as a regulatory body. EGBC will also continue to ensure registrants are informed and supported through this transition, as new parts of the PGA come into effect.

I bring extensive leadership experience, including working in provincial collaborative change initiatives in healthcare involving multiple organizations including the Ministry of Health, Doctors of BC, community agencies and health authorities. Currently I lead the Lower Mainland Biomedical Engineering department, which manages the safe and effective use of medical equipment for patients and providers in the four lower mainland health authorities. I chose my field of engineering in healthcare because of how strongly I felt that my work needs to contribute to helping patients, protecting their safety, and improving healthcare. I hold strong personal values of integrity, respect, and inclusion. I believe in engaging staff and stakeholders authentically to ensure that the work at hand is best informed by a wide range of experience and perspectives to help reach the best solutions. These experiences will help me to be of service to the Council and our professions.

EDUCATION

MA (Leadership and Training), Royal Roads University, 2006
M.Eng. (Clinical Engineering), UBC, 1989
B.Sc. (Engineering Chemistry), Queen's University, 1986

PROFESSIONAL HISTORY

Executive Director, Lower Mainland Biomedical Engineering, Provincial Health Services Authority, 2017–present
Regional Director, Primary Care Integration, Vancouver Coastal Health, 2009–2017
Manager, Biomedical Engineer, Biomedical Engineering, Vancouver Coastal Health, 1989–2009

ENGINEERS AND GEOSCIENTISTS BC ACTIVITIES

Member, Executive Sub-Committee, 2020–present
Member of Council (Vice President), 2020–present
Member, Standing Awards Advisory Group, 2019–2020
Interviewer, Interview Panel Committee, Credentials Committee, 2019–present
Member of Council, 2014–2016
Member, ASTTBC/APEGBC Joint Committee, 2014–2016
Member, Audit Committee, 2014–2016

RELATED PROFESSIONAL ACTIVITIES

Board member, Medical Device Development Centre, Vancouver, 2018–present
Membership Committee Chair, American College of Clinical Engineering, 2008–2009
Membership Committee Member, American College of Clinical Engineering, 2007–2008

COMMUNITY INVOLVEMENT

Board member, Burnaby Hospice Society, 2021–present

Community representative, Sarah Ross Modular Housing Community Advisory Committee, 2018–present

Q&A WITH CANDIDATES

Engineers and Geoscientists BC 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 the organization?

There is increasing public scrutiny of many self-regulating professions, including healthcare professionals, forestry professionals, engineers and geoscientists. As self-regulated professionals, engineers and geoscientists are entrusted with a privileged responsibility to ensure the safety of the public is put first. The Government of BC has been responding to the increased public scrutiny with changes to regulatory legislation for many self-governing professions, including ours. EGBC has been working with the government to transition from our existing and long standing Engineers and Geoscientists Act to the new Professional Governance Act, which was passed in 2018, and came into effect on February 5 2021. This new Act brings opportunities and challenges to EGBC, as the professional regulator, and to the registrants and firms. And so while the intent of the new Professional Governance Act is to strengthen the protection of the public, EGBC needs to continue its positive engagement with the Government of BC to ensure public interest is enhanced while balancing this with appropriate levels of regulatory requirements. Continued thoughtful, patient and diplomatic engagement is important for EGBC to achieve an optimized regulatory approach that will strengthen public safety while maintaining and improving its responsiveness as a regulator.

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

Inclusion and diversity

Balancing gender equality and addressing racial bias are required to make engineering a more inclusive and welcoming profession. This will increase the number of new members to the profession, ensuring it can meet the continued demand for engineering professionals and well as bringing more diverse approaches and perspectives to the engineering solutions that are developed.

Climate change

Climate change continues to be a critical issue with both geoscience and engineering playing key roles ensuring effective and sustainable approaches and solutions are developed to protect the public and our environment.

COVID-19

Functioning in a COVID-19 world continues to be a challenge for all of us, organizations and businesses, including EGBC. With restrictions relaxing, the impacts are also lessening, but some still remain on how we conduct our work. Protecting the public takes on a whole new meaning in the time of a pandemic. The professions are also in a position to help solve issues and challenges brought on by COVID-19, furthering our key purpose to protect the safety, health and welfare of the public.

Emerging technology and engineering disciplines

As technology continues to evolve and develop into new and specialised areas, this brings emerging new areas of engineering practice. We need to ensure we are inclusive of, prepared to assess competency, and regulate these new and emerging fields of engineering.

Looking five years ahead, what is your vision for Engineers and Geoscientists BC as a professional regulatory body in BC?

Building on its strong position as a leading professional regulatory body for engineering and geoscience in Canada, EGBC will be seen as a forward thinking, inclusive, and responsive organization that supports and ensures the professions hold public safety paramount as they improve and positively impact society and the environment.

C.L. (Carol) Park, P.Eng., continued

For Council to achieve its goals and meet its fiduciary responsibilities, Council has identified the need for diverse voices on Council, with a blend of the following skills and competences: leadership, financial literacy, risk management, human resources, strategy, regulatory understanding, governance and technical proficiency. Please highlight the areas of strength you bring to the role.

With 30 years of progressive leadership experience, I lead a department of 200 engineering and technology staff across the BC lower mainland, have completed a Masters of Arts in Leadership, and have led collaborative change initiatives to transform primary and community care delivery in BC.

I lead an organization with a \$30 M budget, reviewing financial progress, assessing new and emerging cost pressures and determining mitigation strategies.

Safely managing medical devices includes risk management to ensure patient safety, through assessment of new technology to ensure selection of safe and effective medical devices, implementing maintenance programs that reduce risk of equipment downtime, addressing hazards, and investigating incidents to prevent the recurrence of problems.

My extensive HR experience with union and non-union environments includes knowledge of proper hiring practices, respectful workplace requirements, diversity and inclusion, and performance management.

I collaboratively developed a multi-year strategic plan, including a mission, vision, values and strategic goals; and supported a large system strategy within the healthcare system, leading transformational change in primary and community care.

Along with understanding the professional regulatory requirements of our professional act, biomedical engineering has a strong focus on regulatory requirements of medical devices.

With previous experience on the EGBC Council, and a board member on the Medical Device Development Centre Board, I have developed knowledge and experience in board governance, understanding the important focus on ensuring the organization's responsibilities are being met while monitoring financial performance and strategic goals.

My technical background of biomedical engineering brings diversity of practice to Council.

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COUNCILLOR CANDIDATES



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COUNCILLOR CANDIDATE (two to be elected)



M.A. (Mark) Adams, P.Eng. | North Vancouver, BC

I am honoured to be selected by the Nomination Committee as a 2021 Council candidate to continue the important work we have ahead.

During the last nearly nine years of service to EGBC, I have had the pleasure of working with our incredible volunteers and staff on the complex landscape of self-regulation for the professions of engineering and geoscience in BC.

We continue to work through the largest change in our history with the implementation of the Professional Governance Act. We are making progress on initiatives such as regulation of firms, continuing education, diversity and inclusion, Indigenous reconciliation, and practice rights, but there is much left to do. With your support, I hope to continue that work through strong leadership, consultation, and transparency.

As always, I look forward to hearing from you and thank you for your consideration and support.

EDUCATION

M.B.A. (Consulting and Strategic Management), UBC, 2015

B.A.Sc. (Mining Engineering), UBC, 2006

PROFESSIONAL HISTORY

Vice President, Studies & Technology, SNC-Lavalin Inc., 2021–present

Vice President, Proposals Management, Metso Outotec Canada Inc., 2020–2021

Director, Proposals & Estimation, Outotec (Canada) Ltd., 2019–2020

Senior Manager, Business Development, Outotec (Canada) Ltd., 2016–2019

Officer, Royal Canadian Air Force, Canadian Armed Forces, 2004–2017

Manager, Process Technology, Outotec (Canada) Ltd., 2014–2016

Senior Process Engineer, Xstrata Technology Canada Ltd., 2010–2013

Process Engineer, Highland Valley Copper Mine, Teck Resources Ltd., 2006–2010

ENGINEERS AND GEOSCIENTISTS BC ACTIVITIES

Member, Governance Sub-Committee, 2020–present

Member of Council, 2019–present

Mentor, Mentoring Program, 2014–present

Member, Audit Committee, 2019–2020

Member, Professional Practice Committee, 2019–2020

Member, Continuing Professional Development Committee, 2013–2019 (Chair, 2017–2019)

RELATED PROFESSIONAL ACTIVITIES

Member, Dean's Advisory Council, Faculty of Applied Science, UBC, 2020–present

Member, Industry Advisory Committee, Mining Engineering Department, UBC, 2016–present

Treasurer, Board of Trustees, SAG Conference Award Foundation, 2014–2020

Chair, Membership Committee, Mining Suppliers Association of BC, 2017–2019

Member, BC/YK Branch Committee, Canadian Mineral Processors Society, 2012–2016 (Chair, 2014–2016)

COMMUNITY INVOLVEMENT

Member, Board of Directors, Veterans Memorial Housing Society, 2018–present (Secretary, 2020–present)

Member, Board of Directors, North Shore Stroke Recovery Centre, 2017–present (Treasurer, 2017–2020)

Co-Founder and Co-Chair, Board of Directors, Vancouver Military Dinner Society, 2014–present

Co-Founder and Secretary, Board of Directors, Vidya School Foundation (Canada), 2016–2017

Co-Founder and Secretary, Board of Directors, Cadet Instructor Cadre Branch Association of BC, 2011–2017

AWARDS AND HONOURS

Ray MacDonald Volunteer Award, Canadian Mineral Processors Society, 2020
Minister of Veteran's Affairs Commendation, Government of Canada, 2019
Sovereign's Medal for Volunteers, Government of Canada, 2016
Queen Elizabeth II Diamond Jubilee Medal, Government of Canada, 2012

Q&A WITH CANDIDATES

Engineers and Geoscientists BC 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 the organization?

Continued Implementation of the Professional Governance Act

Since the Professional Governance Act came into law in late 2018, Council and staff have been working closely with the BC government in the lead-up to its full implementation earlier this year. This coming year will see the start-up of new programs, systems, and requirements such as regulation of firms and continuing education. Continuity of strong leadership and a continued positive collaboration with government will be key in ensuring the new Act achieves the goals of protecting the public and environment in BC.

Registrant Consultation and Engagement

Consultation and engagement between EGBC and its registrants will always be vitally important. We must continue to seek ways to demonstrate the organization's relevance and value, while at the same time seeking registrants' valuable feedback and insights on important issues.

Organizational Staff and Culture

The leadership and engagement of EGBC's incredible staff has always been critical to the organization's success. As we welcome our new CEO, Heidi Yang, and succession plan for other recently retired and soon-to-retire senior staff, it will be important that we maintain the culture of excellence that has supported us in becoming one of the most respected regulators in Canada. We must also be mindful of renewing that culture amid new, distributed work environments coming out of the COVID-19 pandemic.

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

Equity, Diversity, and Inclusion (EDI)

There is no doubt EDI improves innovation and decision-making, yet our professions continue to under-represent in various demographic groups, limiting our full potential. This is a multi-faceted challenge and improving our professional EDI culture starts with meaningful conversations and openness to learn. We must support and encourage youth to pursue interest in our professions and promote diverse role models for them to aspire to. I applaud and continue to support initiatives such as the Engineers Canada 30-by-30 campaign and the work of our many outreach volunteers in communities and schools.

Environmental Responsibility and Reconciliation

Our professionals are in one of the best positions to understand the impacts of the many industries we work within and to contribute to improving climate change action and reconciliation with Canada's Indigenous Peoples. We must continue to keep these issues forefront in our decision-making and lead others to prioritize the same values.

Public and Government Trust

Engineers and geoscientists are recognized by the public as having the skills, knowledge, and experience to be in the best position to regulate their peers. This, however, is a privilege we hold only with the confidence of the public and government. We must continue to innovate in the ways we meet our mandate and always remain focused on those we have a duty to protect.

Looking five years ahead, what is your vision for Engineers and Geoscientists BC as a professional regulatory body in BC?

I believe EGBC will look back on the next five years as a defining time in our history. Collaborating with government, we will have helped evolve the regulation of our professions in BC and demonstrated that protection of the public and environment is at its finest when we strengthen self-regulation. Our innovative regulatory instruments will work together to maximize public and environmental protection and be viewed as best practice for others to follow. We will have the full confidence of the public and government, who will trust that we have their best interests at the forefront of decision-making. We will have a culture where our registrants are diverse, inclusive, and engaged and give back to and advance the professions through volunteering and mentorship.

For Council to achieve its goals and meet its fiduciary responsibilities, Council has identified the need for diverse voices on Council, with a blend of the following skills and competences: leadership, financial literacy, risk management, human resources, strategy, regulatory understanding, governance and technical proficiency. Please highlight the areas of strength you bring to the role.

Over the past fifteen years, I have had the privilege of working in various professional and non-profit roles throughout urban and rural BC. I have worked as an engineer, technical manager, business executive, Canadian military reserve officer, and non-profit board and committee member. Through this, I have gained significant experience in leadership, strategy, finance, risk management, governance, regulation, and the technical practice of our professions.

I have built, led, and developed both small and large teams as well as mentored and coached many individuals. I have facilitated and participated in strategic planning sessions and led the execution of many strategic initiatives. Through my education and experience as a non-profit treasurer, I am comfortable interpreting and discussing financial matters with both general management and financial experts. I consider my knowledge of governance and the role of boards and committees in organizational structure to be very sound.

As a Council and committee member with EGBC, I have gained tremendous exposure and insight into the role, duties, and responsibilities of the organization and self-regulating bodies in general. Through this experience, I have also become extremely familiar with EGBC's governing legislation and bylaws. I have also gained an excellent understanding of the organization's structure through my many interactions with members of Council, committees, task forces, and staff.

COUNCILLOR CANDIDATE (two to be elected)



T.M. (Tomer) Curiel, P.Eng., FEC | Vancouver, BC

We are in the midst of a tremendous opportunity to modernize and transform how we are regulated; how we are regarded by the government, the public, and registrants; and to resolve fundamental questions about how engineers and geoscientists interface with other disciplines.

My interest in Council stems from my desire to support the growth of the professions and the success of its practitioners. I have always maintained a strong connection to EGBC and developed relationships with registrants who became my friends, mentors, and coaches. And after a term on Council, my interest has only been bolstered.

I am a Professional Engineer with 16 years of experience. In my project management career I've witnessed the high regard with which engineers and geoscientists are held. We fulfill an important role providing unbiased, thoughtful, and well-rounded counsel on wide ranging fundamental issues.

My career and personal situation afford me the opportunity to contribute in a meaningful way. I've held leadership positions through which I developed strong abilities to cultivate teams, facilitate communication, critically evaluate and achieve consensus on difficult issues. I've had the opportunity to work all across the Province and develop an understanding of the unique conditions and needs of each corner – from Dawson Creek to Kitimat to Osoyoos; from Fernie and Nelson to Nanaimo; and everywhere in between. I've had the opportunity to work with large and small organizations. I have experience with complicated governance and decision structures, and have contributed towards developing strategic visions and long-term programs. These are all skills that contribute to successful term on Council and serve the needs of the registrants. I am committed to listening to the concerns, learning from the diverse voices, and supporting decisions in the best interest of the public and the professions.

EDUCATION

M.A.Sc. (Materials Engineering), UBC, 2006

B.Eng. (Mechanical Engineering), Concordia University, 2002

PROFESSIONAL HISTORY

Senior Project Manager, TransLink, 2018–present

Interior BC Lead, Senior Project Manager, Colliers Project Leaders, 2006–2018

ENGINEERS AND GEOSCIENTISTS BC ACTIVITIES

Member of Council, 2020–present

Member, Standing Awards Advisory Group, 2018–2020

Mentor, Mentoring Program, 2016–present

Member, Building Space Planning Task Force, 2018–2019

Member, Nomination and Election Review Task Force, 2017–2018

Branch Representative Chair, 2014–2016

Member, Nominating Committee, 2013–2014

Member, Building the Engineering and Geoscience Community Team Task Force, 2011–2012

Chair, and other roles, Tri-Cities Branch, 2012–2014

Chair, Treasurer, and other roles, Vancouver Branch, 2008–2012

AWARDS AND HONOURS

Fellow (FEC), Engineers Canada, 2018

Q&A WITH CANDIDATES

Engineers and Geoscientists BC 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 the organization?

The key challenge facing EGBC is maintaining relevance within the new regulatory framework established by the Provincial government. As the new Professional Governance Act (PGA) came into force, it imposed significant changes to the way the professions are regulated. This transition required deft handling. Many of the changes that Council has implemented over the last few years to modernize operations and regulatory elements have been seen as “best in class”. They form the basis of a number of the recommendations from the PGA for other regulators that fall under the new act (such the Organizational Quality Management program, enhancement to the Member-In-Training program, and the competency-based framework for registration). This demonstrates that our government regards EGBC as a partner in the process, which has allowed us to influence some of the details of the implementation. This is a privilege that must be treated carefully.

EGBC needs to continue its strong role in protecting of the public, while ensuring it continues to add value to its existing, future, and potential registrants. EGBC also needs to maintain open lines of communication with ASTTBC and other associations, so it can work collaboratively to ensure clear distinctions in roles and responsibilities and develop mechanisms to address future evolution. This will serve to reinforce the P.Eng. and P.Geo. designations as marks of distinction – something to be strived for – encouraging Trainees as well as those in emerging disciplines to register and become proud and active participants in their chosen profession.

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

The key issue facing the professions of engineering and geoscience is ensuring we stay flexible and responsive in our practice. The last few years have taught us that change is inevitable and unexpected. Even prior, we saw an ever-increasing rate of change caused by world events beyond our control, punctuated by less certainty and more unknowns. Change can also be an opportunity for innovation and progress. In my time as an EGBC registrant I have witnessed significant opportunities to enhance the professions including:

- increasing diversity by actively pursuing policies that encourage women to engage with STEAM topics and practice geoscience and engineering;
- increasing diversity through integration of foreign trained professionals;
- broadening our influence through outreach to professionals practicing in evolving areas within existing disciplines, and new emerging disciplines that have increase in importance through innovation, research, and development;
- leading the development policies and guidelines that recognize our role in climate change and the need to act as stewards of the planet, with an increased emphasis on sustainability and resource management; and
- enhancing the regulatory environment through continuous improvement of EGBC’s services and its influence on governmental policy.

As professionals it behooves us to remain current through continued professional development, a renewed commitment to the code of ethics, and a focus on improving the world in which we live.

Looking five years ahead, what is your vision for Engineers and Geoscientists BC as a professional regulatory body in BC?

- *Leading the professions* by fostering innovative approaches; embracing equity, diversity, and inclusivity; and championing initiatives that enhance livability, well-being, and improves resiliency.
- *Protecting the public* as an effective regulator that advocates a risk-based “right touch” approach to oversight;
- *Partnering with the Province* and the Superintendent of Professions; and working with associated professions such as architects, building officials, applied science practitioners, biologists, etc.;
- *Providing a value-add* to the professionals that it regulates through the provision of tools, support, education, and opportunities; enhancing the level of professionalism to the benefit of the public; and raising the profile of the professions, both locally and globally.

T.M. (Tomer) Curiel, P.Eng., FEC., continued

For Council to achieve its goals and meet its fiduciary responsibilities, Council has identified the need for diverse voices on Council, with a blend of the following skills and competences: leadership, financial literacy, risk management, human resources, strategy, regulatory understanding, governance and technical proficiency. Please highlight the areas of strength you bring to the role.

My experience with EGBC and on Council, as well as a Professional Engineer and project management professional have allowed me to develop many of the competencies required to be effective as a Councillor. Foremost being leadership, strategic thinking, and governance, underpinned by effective communication, the ability to distill complex information, and a focus on key objectives. I am confident my experience and these skills have allowed me to work successfully with Council and staff as we meet the current challenges facing society, the organization, and each of us individually as professionals.

Throughout my career I have always sought out roles that challenge and develop. In my role leading Colliers' Kelowna office I was directly responsible for managing professional resources and business operations. Through my time at TransLink, I have developed an understanding of policies related to EDI and accessibility. I am responsible for establishing budgets for large scale infrastructure and building projects, developing business cases, and assessing economic impact. Risk management is one of the most important aspects of my work. Risks must be considered holistically, are dynamic, need to be considered through specific frameworks and the lens of existing/developing policies. Risk management then needs to be tailored to meet the organization's needs and tolerance.

Working in the construction industry has instilled in me technical and regulatory understanding, with a plethora of overlapping jurisdictions and regulations related to procurement, environment, engineering, construction, and operational systems.

COUNCILLOR CANDIDATE (two to be elected)



N.F. (Nathan) Ozog, P.Eng., FEC | Vancouver, BC

I am running for re-election to EGBC Council because I am committed to completing the historic work of transitioning EGBC to the new Professional Governance Act (PGA) that began two years ago. Our updated regulation must enable British Columbia's Engineers and Geoscientists to continue delivering world class services and innovation, while also continuing to improve our protection of the public and the environment. My experiences as a regulatory specialist, on foundational EGBC committees, and as a dedicated EGBC volunteer of 14 years put me in a unique position to achieve this goal.

In the last two years I have helped re-write EGBC bylaws and comprehensively review its programs. In doing that, I have advocated for: practical clauses to ease the burden of continuing education, the continuation of the regional branches, clarity in corporate regulation, strengthened diversity language, and reinforcement of our high standards of registration. My goal now is to roll out these improvements in such a way that they empower, rather than stifle, our ability to work effectively.

During this period, the pandemic has also taught us much about modernization opportunities in business, and I will strive to apply those learnings to make EGBC a more effective organization than it has ever been before. This means finding new opportunities for efficiency, embracing diversity and doing everything we can to improve our relationship with you, the registrants.

I hope you will give me the opportunity to apply all I have learned since last being elected, and bring renewed effort to advancing our organization on your behalf.

EDUCATION

M.A.Sc. (Electrical Engineering), UBC, 2008

B.A.Sc. (Electrical Engineering), UBC, 2006

PROFESSIONAL HISTORY

Compliance Lead (previously Team Lead, Senior Engineer and Engineer), BC Hydro, 2009–present

Adjunct Professor (previously Sessional Instructor), Department of Electrical and Computer Engineering, UBC, 2008–2018

ENGINEERS AND GEOSCIENTISTS BC ACTIVITIES

Member, Governance Sub-Committee, 2020–present

Member of Council, 2019–present

Member, Executive Committee, 2019–2020

Chair, Branch Representatives Committee, 2016–2019

Member, Registration Committee, 2016–2019

Chair, Limited License Subcommittee, 2014–2019

Chair (and various roles), Vancouver Branch, 2007–2013

RELATED PROFESSIONAL ACTIVITIES

Member, Technical Review Committee, IEEE International Power Electronics and Application Conference, 2015

Member, Technical Review Committee, IEEE Electrical Power and Energy Conference, 2008

COMMUNITY INVOLVEMENT

Chair (and previous roles), Vancouver Squash League Board, 2015–present

Chair (and previous roles), Squash BC Nomination Committee, 2018–2021

Big Brother, Big Brothers of Greater Vancouver, 2015–2016

AWARDS AND HONOURS

Young Professional Award, Engineers and Geoscientists BC, 2018
Fellowship, Engineers Canada, 2018

Q&A WITH CANDIDATES

Engineers and Geoscientists BC 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 the organization?

The key challenge facing EGBC is the volume of change that it is immediately subject to as a result of the PGA, which is now enforced by the British Columbia Superintendent of Professional Governance. These changes include a new corporate regulation program, a new continuing education program, heavily revised audit and discipline programs, new definitions of Engineering and Geoscience, elimination of advocacy functions, a new code of ethics and many other less visible changes. Adding to this, EGBC has a new Chief Executive Officer, who will be tasked with leading the creation of a new three-year plan.

The work done to date has been tireless; it has laid the foundation for these changes and set Engineers and Geoscientists BC up for success. But change inevitably introduces risks and challenges. The importance of a Council with exposure to and understanding of this complex portfolio of issues is crucial for success, because each of these changes on its own would represent *the* key challenge in any year prior.

As recent failures around the world have shown, the role of the professional is critical to a safe and properly functioning society that is more technologically complex than it has ever been before. So EGBC's opportunity is to take hold of this moment of change to reshape itself as a modern regulator that helps its professionals be more effective than *they* have ever been before.

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

Two issues that will have the greatest impact on our professions are: regulation of Applied Science Technologists and Technicians of BC (ASTTBC), and corporate regulation of Engineering and Geoscience.

Applied Science Practitioners: Regulation of ASTTBC members is a very challenging issue, and one that is unresolved at this point in the rollout of the *Professional Governance Act*. Whether they will receive their own rights to reserved practice, and how their relationship with EGBC will look in that new context, are questions that will be answered in the coming years and will crucially affect EGBC registrants. While there are implicit differences between the roles that Technologists, Licensees, and Professional Engineers and Geoscientists play, the precise dividing lines are difficult to draw. The speed of technological change, the emergence of new disciplines, and the evolving practices of existing disciplines have made the picture even blurrier. EGBC has a critical voice in guiding this decision.

Corporate Regulation: Corporate regulation bylaws are in place and the program has become active, which is a historic change for Engineering and Geoscience individuals, firms and sole proprietors. Engineers and Geoscientists BC must monitor this rollout very closely, communicate effectively and have the ability to react quickly to inevitable challenges and opportunities. By doing so, this program can learn rapidly and succeed so that its registrants can succeed within it.

Looking five years ahead, what is your vision for Engineers and Geoscientists BC as a professional regulatory body in BC?

In five years, I would like for EGBC to have achieved the following:

- A demonstrated clean record of public safety.
- A healthy relationship with the Superintendent of Professional Governance, such that excessive oversight measures are not considered necessary.
- Stronger dialogue and collaboration with emerging Engineering and Geoscience disciplines.
- Better defined relationships with other Applied Science practitioners, such as Technologists and Technicians.

N.F. (Nathan) Ozog, P.Eng., FEC continued

- Reasonable registrant fees.
- A registrant base that better reflects the full diversity of British Columbia, to leverage its full potential.
- A positive and tangible impact on the environment of British Columbia.
- A better relationship with its registrants.

For Council to achieve its goals and meet its fiduciary responsibilities, Council has identified the need for diverse voices on Council, with a blend of the following skills and competences: leadership, financial literacy, risk management, human resources, strategy, regulatory understanding, governance and technical proficiency. Please highlight the areas of strength you bring to the role.

My experience as a Professional Engineer is my most important qualification for this position. Having practiced for a number of years in the technical area of power system protection & control (P&C), a specialty critical to public safety, I have a strong understanding of the challenges that EGBC professionals face and that Council must be vigilant in keeping front of mind.

Regulatory understanding, risk management and strong communication have also been consistent themes in my career, particularly in the key leadership roles that I have had in building BC Hydro's cybersecurity compliance program. While these roles have given me a vehicle to gain important financial and human resource skills, their greatest value has been in giving me first-hand experience into how extensively regulation can affect practice.

I have seen that while regulation can positively affect change, if not applied carefully, it can also have unintended outcomes. I have endeavored to apply all of my experience and learnings to be an effective change agent in my role as an EGBC Councillor. I have also learned a great deal in the process. As a renewed candidate I know that this growth will allow me to contribute even more effectively if I am given another opportunity to work on your behalf.

COUNCILLOR CANDIDATE (two to be elected)



J. H. (Jens) Weber, P.Eng. | Victoria, BC

I first became conscious of my responsibility as a programmer when working on industrial control software in a German engineering firm. Learning that the new system was replacing a previous one that exploded gave me pause. I had just graduated from high school and was working until I would enter computer science at a local university. The experiences during that summer job changed my trajectory. I realized the potential risks associated with software in our society. The concept of Software Engineering as a discipline was still in its infancy, but I was fortunate to find a different (not so local) university starting such a program. I was able to switch and join the first cohort.

When I came to Canada, I was impressed by what I found to be a mature regulatory system to protect the public. I also learned that it was not without controversy, particularly in the software industry. I am aware of various concerns about the potential negative effects of regulation. Several of these stem from misconceptions, and the organization needs to continue improving communication with relevant stakeholders to address them. Other concerns may have merit in the light of emerging fields of practice (e.g., intelligent and autonomous systems), which require new or adapted approaches to governance and regulation. I am running for Council to help define and implement these approaches.

I am a firm proponent of increasing equity, diversity and inclusivity in our professions and the public they serve. I believe that EGBC can and must be instrumental in furthering this goal.

EDUCATION

Ph.D. (Computer Science), University of Paderborn, 1999
Dipl. Inform. (Software Engineering), University of Dortmund, 1994

PROFESSIONAL HISTORY

Professor (Director of Software Engineering, Acting Associate Dean), University of Victoria, 1999–2021
Partner, ExperEdge Technology Partners, 2001–2021
Research Associate, University of Paderborn, 1994–1999

ENGINEERS AND GEOSCIENTISTS BC ACTIVITIES

Member, Software Engineering Advisory Group, 2019–2021
Co-Author, Safety-Critical Software Practice Guideline, 2017–2020

RELATED PROFESSIONAL ACTIVITIES

Director, OSCAR BC Board, 2014–2021
General Co-Chair, IEEE International Conference on Health Informatics, 2020–2021
Member, IEEE P1228 Working Group on Standard for Software Safety, 2019–2021
Associate Editor, Journal on Health Informatics Research, 2018–2021
Member and Section Chair, Discovery Grant Evaluation Group, Natural Science and Engineering Research Council, 2017–2021
Member, National Technical Committee, OSCAR Electronic Medical Record, 2015–2019

COMMUNITY INVOLVEMENT

Referee, BC Soccer, 2019–2021
Coach, Prospect Lake Soccer Club, 2013–2016
Commander, Civil Defense Unit, Germany, 1987–1995

AWARDS AND HONOURS

Faculty Award, IBM Centre for Advanced Studies, 2009
Industry Research Fellowship, Advanced Systems Institute, 2001–2004
Software Engineering Prize, Denert Foundation, 2000

Q&A WITH CANDIDATES

Engineers and Geoscientists BC 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 the organization?

The technology sector is growing, and there are many rapidly emerging fields of professional practice related to engineering and geoscience. The public is increasingly concerned about the security and safety of cyber-physical systems, artificially intelligent systems, autonomous systems, biomedical systems, geoengineering systems, to name a few. There is great potential benefit in innovations made in these and other emerging areas. A key challenge for EGBC will be to find effective ways to regulate these emerging areas so that we can allow and even propel innovation while minimizing the risk to the public. Some of our traditional approaches to governance and regulation may not readily fit the needs of these emerging sectors. I expect that we will need to evolve our policies further to maintain their relevance and effectiveness.

A second challenge arises from the need to implement changes arising from the new Professional Governance Act and the new mandate to regulate firms and engage in continuing education. While I believe that the organization has developed a robust framework and guidance for implementing these changes, it will be crucial to communicate and manage these changes with our industry partners and all relevant stakeholders to establish support and implement an effective program. I also fully expect that adjustments to this program will be required based on lessons learned.

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

We need to address ongoing challenges of equity, diversity, and inclusivity (EDI) in our professions. Engineering and geoscience continue to be male-dominated – and gender is only one of many aspects related to EDI concerns. I firmly believe that a profession cannot achieve its full potential of serving the public if it does not reflect the diversity and composition of the public it serves. This expressly includes the representation of indigenous values and the engagement with indigenous peoples.

Another critical issue is climate change and sustainability. I strongly believe that Engineering and Geoscience professionals can and must play a pivotal role in enabling our communities to adapt to climate change, mitigate its negative impact and potentially even restore damaging trends. More than ever, sustainability and preservation must be a primary concern for our professions. As we see the increasing effect of climate change on our communities, we will see a rising number of initiatives for engineering-based adaptations and interventions.

Looking five years ahead, what is your vision for Engineers and Geoscientists BC as a professional regulatory body in BC?

My vision for Engineers and Geoscientists BC as a regulatory body in five years is for it to become an even more inclusive, diverse, and equitable organization broadly recognized for its role in protecting the public and our environment while fostering innovation and growth. There will be more ways for professionals with diverse backgrounds and fields of practice to attain licensure and derive value from engaging with EGBC. Our system of continuing education will enable our registrants to ladder into new and emerging fields of practice. The organization will work closely with universities and other post-secondary institutions in the province to develop and promote professional development opportunities for our members, for example, by offering micro-credentials.

The government and our industry will recognize EGBC as a vital partner in fostering talent, a commitment to quality and innovation, and protecting the public interest.

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I was the director of the province's only Software Engineering degree program and supported accreditation and growth. I also acted as Associate Dean Undergraduate Programs at a challenging time during the COVID-19 pandemic. Both positions required the management of significant human and financial resources. I was section chair and member of the

J H (Jens) Weber, P.Eng., continued

Discovery Grant Evaluation Group for the Natural Science and Engineering Council. That position required a high degree of integrity, the ability to resolve conflicts, and a firm commitment to equity, diversity and inclusivity. I co-direct a joint research lab between UVic (Engineering) and the UBC (Medicine). I continuously manage projects, budgets, human resources and risks.

I have been a member of the Software Certification Consortium (SCC). The SCC includes regulators, industry and researchers from various safety-critical domains interested in certifying software quality and protecting the public. I have extensively published on this subject and consulted with Health Canada, the B.C. Auditor General, the Office of the Privacy Commissioner and other stakeholders on medical device safety and security.

I have been a director on the board of OSCAR BC, a not-for-profit society with the mandate to foster quality and innovation of an open-source electronic medical record software in British Columbia. I also served on the OSCAR National Technical Management Committee, where I helped to define policies to regulate the development process for safety and security.

I served as chair and organizer of many conferences, including the 2021 IEEE International Conference on Health Informatics in Victoria.



**ENGINEERS &
GEOSCIENTISTS**
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