



Association of Professional Engineers and  
Geoscientists of the Province of Manitoba

2011  
Platforms and Histories  
and the  
Professional Activities  
of the Engineering Nominees  
For Election  
to the Council



**LUIS ESCOBAR, P.Eng., PTOE**

EDUCATION	B.Sc. Civil Engineering, University of Manitoba, 1996
ASSOCIATION ACTIVITIES	Member, APEGM, 2001 to present Member, APEGM Experience Review Committee 2003 to 2005
OTHER ENGINEERING ACTIVITIES	Professional Traffic Operations Engineer, Transportation Professional Accreditation Board Inc. Member, Institute of Transportation Engineers (ITE) Member, Urban Transportation Council, Transportation Association of Canada (TAC) - 2010 to present Executive Member, Transportation Safety Council, Institute of Transportation Engineers (ITE) - 2008 to present Member, Steering Committee for the Traffic Signals Handbook Institute of Transportation Engineers (ITE) - 2008 to 2010 Member, Traffic Operations and Management Standing Committee, Transportation Association of Canada (TAC) - 2002 to 2010
EMPLOYERS SINCE GRADUATION	City of Winnipeg, Manager of Transportation - 2009 to present City of Winnipeg, Traffic Signals Engineer - 2004 to 2009 City of Winnipeg, Traffic Studies Engineer - 1999 to 2004 Private Transportation Consultant, 1997 to 1999 University of Manitoba, Junior Transportation Engineering Researcher, 1995 to 1999
PLATFORM	<p>To promote workforce sustainability in the profession: The profession is being affected by the current demographics in the country and more than ever, professionals are retiring at a significant rate, leaving a knowledge gap which may create a long-term problem for the profession. Supporting and encouraging succession plans as part of an organizational structure will be a key component in dealing with this issue.</p> <p>The relevance of engineering as part of economic development is significant. Hence it is necessary that such relevance is compensated accordingly. My intention is to help minimize the lowest price idea and promote the right cost idea.</p> <p>I intend to help facilitate and foster professional development within the membership and to maintain or increase existing partnerships with educational institutions.</p>

**MARCIA FRIESEN, P.Eng.**

EDUCATION            B.Sc. Ag Engineering, University of Manitoba, 1995  
M. Ed. University of Manitoba, 2003  
Ph.D. University of Manitoba, 2009

ASSOCIATION  
ACTIVITIES            Member, APEGM, 2000 to present

- Collaborated closely with APEGM executive staff and the Academic Review Committee in the development of the IEEQ Program at the University of Manitoba (2003 - ongoing)
- Served on APEGM's provincial sub-committee for the National Professional Practice Exam (2003 to 2005)
- Delivered workshops within APEGM's professional development series (2008)
- Participated with APEGM in meetings of regulatory bodies sponsored by the Manitoba Fairness Commissioner related to best practices for qualifications recognition programs for internationally-educated professionals (2009 to 2010).

OTHER  
ENGINEERING  
ACTIVITIES            • Engineers Canada *IEG Roadmap* project, steering committee member, 2011-2013

- Alternate Warden, The Ritual of the Calling of an Engineer, Camp 8, 2008 – ongoing
- Engineers Canada *eQRm* project, project team member, steering committee member, 2005-2008.
- Member, Advisory Committee, Internationally Trained Accountants Program, Asper School of Business, University of Manitoba, 2010 – ongoing.

EMPLOYERS  
SINCE  
GRADUATION            I.D. Engineering Ltd. / Stanley Consulting Group (1995-1997)  
DGH Engineering Ltd. (1997-2000)  
University of Manitoba (2002 – ongoing)

PLATFORM            The mandate of Council is to govern the Association and administer its affairs. I look forward to learning the issues and activities that comprise this broad mandate, and participating actively where my background and skills are appropriate.

In light of new legislation (2009) and the subsequent establishment of the Office of the Manitoba Fairness Commissioner, my particular interest is to ensure that APEGM and the engineering profession continue to lead among regulated professions in our commitment to and initiatives for qualifications recognition for internationally-educated professionals, in which the profession provides rigorous yet attainable pathways to licensure for qualified internationally-educated engineers, while upholding the regulatory mandate.

**DAWN NEDOHIN-MACEK, P.Eng.**

EDUCATION	B.Sc. Computer Engineering, University of Manitoba, 2002
ASSOCIATION ACTIVITIES	APEGM Councillor - 2010 to present Member, Women's Action Committee Member, APEGM Awards Committee APEGM Member-in-Training Award Recipient - 2005
OTHER ENGINEERING ACTIVITIES	Manitoba Hydro Professional Engineers Association (MHPEA) Councillor IEEE Women in Engineering Committee member IEEE Tellers Committee member IEEE Regional Activities Board Awards Committee member IEEE Winnipeg Section Chair - 2005 IEEE Graduates of the Last Decade, Chair
EMPLOYERS SINCE GRADUATION	Process Control Engineer, Manitoba Hydro Cost and Schedule Engineer, Manitoba Hydro Executive Assistant to the Vice President of Transmission, Manitoba Hydro
PLATFORM	<p>Since my time at the University of Manitoba, I have been involved in volunteering with the engineering profession through a variety of institutions including with the Institute for Electrical and Electronics Engineers (IEEE), MHPEA and APEGM. I have always sought opportunities to further the engineering profession by being an APEGM councillor, a provincial technical society chair (IEEE), encouraging young engineers to join and grow the IEEE Graduates of the Last Decade and Women in Engineering committees, participating on international committees with IEEE and assisting with programs such as the Manitoba Robot Games. I have provided venues for education through IEEE presentations and workshops, and have lead many volunteers to achieve successful conferences, educational sessions and networking opportunities. My parliamentary procedure knowledge, skilled facilitator abilities and love of learning assist me in fully participating on APEGM council.</p> <p>I have enjoyed my tenure as an APEGM Councillor, and would like the opportunity to continue the council towards achieving its ENDS, including the question of advocacy, representing engineering and geosciences to other industries, governments, and the public, increasing our visibility in the public, and tackling continuing professional development.</p> <p>My goals include:</p> <ul style="list-style-type: none"><li>• increase our communication and visibility with our membership, the public, the engineering community and the government to ensure that engineers are recognized as important, key members of our society;</li><li>• working with the engineering community to understand and participate in the continuing professional development program;</li><li>• maintain our relationships with other engineering and geoscience bodies such as IEEE, Consulting Engineers of Manitoba, and CTTAM;</li><li>• developing an online Social Media presence within the engineering online community;</li><li>• understanding and supporting advocacy on behalf of the public, and</li><li>• representing the engineering and geoscience membership of Manitoba.</li></ul>

*\* The information, content and views expressed in these platforms are submitted by the candidates and are not necessarily those held by APEGM or the APEGM Council.*

## **JAMES NICHOLSON, P.Eng. MBA**

EDUCATION	B.Sc. Electrical Engineering, University of Manitoba, 1987 MBA, University of Western Ontario
ASSOCIATION ACTIVITIES	Member, APEGM, 1989 to present Supervisor for MIT and APEGM - U of MB IEEQ Program members General and Special meetings
OTHER ENGINEERING ACTIVITIES	Member of committees creating eight CSA national engineering standards CSA technical committee C538 on instrument transformers IEC technical committee #38 on instrument transformers CSA technical committee C128 on switchgear and controlgear insulators Reviewed and commented to improve IEEE and IEC international engineering standards Manitoba Hydrogen Energy Task Force member Manitoba Board of Directors & Treasurer for property association addressing infrastructure, regulation, erosion, flood control, environment, development, natural resources, and taxation issues.
EMPLOYERS SINCE GRADUATION	Aerospace and marine - computer and electrical design engineer Electrical energy systems - power and infrastructure senior engineer
PLATFORM	<ul style="list-style-type: none"><li>• Support APEGM membership resolutions, ratifications, policies.</li><li>• Manitoba follow a simpler CPD than proposed APEGGA (Alberta) 240 hrs/3 years program: PEO (Ontario) - self recording, OIQ (Quebec) - 12 hrs/yr of PD training, APEGBC (BC) 30 hrs/yr of PD.</li><li>• For other Manitoba professionals minimum CPD/MCE: Lawyers - 12 hrs/yr., Architects - 70 hrs/2yrs, Chartered Accountants - 20-40 hrs/yr. Pharmacists - 25hrs/yr. Physicians - 40-50 credits/yr. Registered Nurses - self-assessment and development plan, Teachers - no PD requirements. Proposed 240 hrs/3 yrs exceeds other professions.</li><li>• Review Declaration of Compliance. Manitoba is one of only three associations requesting this.</li><li>• Improve member personal info protection/privacy - no disclosures without member approval.</li><li>• Improve Manitoba flood mitigation.</li><li>• Uphold and strengthen by-laws that only licensed P.Eng./Geo engage in engineering/geosciences work.</li><li>• Support EIT and IEEQ - U of MB programs.</li></ul>

**BETHANY PHILLIPS, P.Eng.**

EDUCATION	B.Sc. Civil Engineering (with distinction), University of Saskatchewan, 2004
ASSOCIATION ACTIVITIES	Member, APEGM, 2009 to present
OTHER ENGINEERING ACTIVITIES	Member, APEGBC, (EIT 2004 to 2008) P.Eng. 2008 to present Events Coordinator, Division for the Advancement of Women in Engineering (2005 to 2006) Engineers Without Borders Vancouver Professional Chapter: <ul style="list-style-type: none"><li>o Director of Public Outreach and Events (2006 to 2007)</li><li>o Chapter Vice-President (2007 to 2008)</li></ul> Engineers Without Borders Winnipeg Professional Chapter <ul style="list-style-type: none"><li>o Chapter Vice-President (2009 to 2011)</li><li>o Director of Workplace Outreach (2009 to 2011)</li></ul> Association of Consulting Engineering Companies - Manitoba: <ul style="list-style-type: none"><li>o Young Professionals Committee Founder</li><li>o Young Professionals Committee Chair (2008 to 2011)</li><li>o Board Director (2009 to 2011)</li></ul>
EMPLOYERS SINCE GRADUATION	Wardrop Engineering Inc. - Structural Engineer Klohn Crippen Berger Ltd. - Structural Engineer
PLATFORM	<p>I am honoured to be nominated as a candidate for councillor. Since graduating from university, I have been actively involved in the engineering community, first in Vancouver, then in Winnipeg when I moved here in 2008.</p> <p>If elected as a councillor, I will work towards the following goals:</p> <ul style="list-style-type: none"><li>• Increasing knowledge of APEGM's policies and engagement in APEGM activities, in particular with young engineers;</li><li>• Creating a higher profile of engineering and geoscience in our community and society. Engineers and geoscientists are the creators of our society, but few people understand what we do. I believe APEGM and the engineering community should work to change that;</li><li>• Promote engineering and geoscience to youth so that we may attract the best and brightest to our profession. Engineering is a challenging and fulfilling career choice requiring focus, hard work, and creativity; however, because many people don't fully understand what we do, we are not necessarily seen as a top career choice;</li><li>• Work with governments and other organizations to develop proactive and responsive relationships on issues that affect our members or our work; and</li><li>• Promoting the concept that protecting the public requires more than technical competency - engineers should be at the forefront of creating socially and environmentally sustainable designs.</li></ul>

**MITKO TOMOV, P.Eng.**

EDUCATION	B.Sc. Mechanical Engineering, St. Cyril & Methodius, Skopje, 1990 IEEQ Program, University of Manitoba, 2007
ASSOCIATION ACTIVITIES	Member, APEGM, 2007 to present Member, APEGM Awards Committee 2008 to 2010
OTHER ENGINEERING ACTIVITIES	Member, IEEQ Alumni Steering Committee Senior Member, Society of Manufacturing Engineers Manitoba Schools Science Symposium judge - 2008 Manitoba Robotic Games judge, 2008
EMPLOYERS SINCE GRADUATION	Monarch Industries, Process Engineer - 2008 to present New Flyer, Design Engineer - 2007 to 2008 APR Industries, Manufacturing Engineer - 2005 to 2007 ZGM Engineering, Skopje - Production Manager - 1995 to 2003 Metal Istok, Skopje - Manufacturing Engineer - 1990 to 1995
PLATFORM	<ul style="list-style-type: none"><li>▪ To utilize my personal experience in improving the process for international engineering graduates excelling in their career aspirations, and promote the relevance of Canadian registration standards at the same time.</li><li>▪ Continuing to promote and raise the profile of engineering and geosciences in the community, and to promote an interest in sciences and engineering with our youth.</li><li>▪ Assist APEGM to maintain the level of professionalism and accountability between the members.</li></ul>