

ACEC – British Columbia Annual Report 2016 ♦ 2017



ASSOCIATION OF CONSULTING
ENGINEERING COMPANIES
BRITISH COLUMBIA



Table of Contents

Association Profile	2
Our Vision	2
Our Mission	2
Core Values	2
Charter of Membership	2
ACEC-British Columbia Directors and Executive Committee	3
Chair’s Report	4
President’s Report	5
Minutes of the 2016 Annual General Meeting	6
Regional Liaison Reports	
Vancouver Island Liaison	8
Thompson-Okanagan Liaison	8
Committee Reports	
MMCD Report	9
Building Engineering	9
Metro Vancouver Liaison	10
Municipal Engineering	10
Transportation	11
Resource and Energy	12
Business Practice	13
Membership Affairs	14
Professional Development	15
Human Resources	15
Young Professionals’ Group	16
Small Firm Council	17
ACEC-Canada Year in Review	18
Events 2016-2017	19
Awards Road Show	19
Transportation Conference – <i>The Changing Face of Transportation</i>	20
Golf Tournaments	20
Event Sponsors	20
Awards for Engineering Excellence	21
2017 Meritorious Achievement Award	22
2017 Young Professional Award	22
2017 Client of the Year Award	23
Treasurer’s Report	24
ACEC-British Columbia 2016-2017 Organization Chart	25
ACEC-British Columbia Corporate Members	26
ACEC-British Columbia Associate Members	26

Association Profile

The Association of Consulting Engineering Companies–British Columbia is the industry association representing the business interests of the province’s consulting engineering firms. Established in 1976, today the association represents 80 firms employing 8,300 people in British Columbia. The number of member firms has dropped in recent years because of tremendous growth in the industry that has resulted in numerous mergers and acquisitions. The association is a non-profit organization and operates under the BC Societies Act.

Membership benefits range from gaining access to policy makers, to sharing intelligence with other members and to dealing with individual procurement issues as an organization, rather than an individual firm.

Our Vision

ACEC-British Columbia is recognized as the voice of the consulting engineering business in British Columbia, and the member firms are respected for the value of their contributions to society. We are called upon by all sectors of society to provide strategic advice on public policy matters and social welfare. Consulting firms are full participants in the activities of ACEC-British Columbia and provide their services on the basis of quality, value and fairness to all.

Our Mission

The mission of ACEC-British Columbia is to promote the business of British Columbia consulting engineering by enhancing our business and professional stature and to provide value to our clients while maintaining a commitment to public service and private enterprise.

Core Values

- ❖ integrity and ethical conduct
- ❖ public health, safety and welfare
- ❖ environmental stewardship
- ❖ professional respect for all members
- ❖ quality of service
- ❖ adequate compensation for services

Charter of Membership

The Charter of Membership was signed by member firms at the Annual General Meeting on June 4th, 2015. It is included in this year’s report as a reminder of members’ commitment to their professionalism. It includes the following statements:

1. Our company will support ACEC-BC through participation in its activities and adherence to its principles and policies.
2. Our company will relate to other members of ACEC-BC with integrity, and in a manner that will enhance the stature of consulting engineering, and the profession in general.
3. Our company will respect the majority view of ACEC-BC as expressed by its Board of Directors for the greater good of the industry.
4. Our company will not impugn the reputation or business of others.
5. Our company will actively encourage the selection of consultants based on qualifications.
6. Our company will offer its services at a price that reflects the value of the service, taking guidance from the ACEC-BC/APEGBC Fee Guidelines for Engineering Services.
7. Our company will respect the clientele of other members of ACEC-BC and will not attempt to supplant them when definite steps have been taken for their engagement.
8. When partnering for projects, our company will endeavor to select from other qualified ACEC-BC firms, and will follow the principles of qualification based selection and value based fees.
9. Our company will not engage in anti-competitive practices.

2016-2017 Directors

Chair	Tim Stanley, P.Eng.	Stratice Consulting
Vice-Chair/Treasurer	Jeannine Martin	COWI North America
Designated Director	Kevin Savage, P.Eng.	Tetra Tech OGD
MMCD Director	Carol Campbell, P.Eng.	Opus International Consultants (Canada) Ltd.
Municipal Engineering Committee	Adrian Corlett, P.E.	Parsons
Business Practice	Mike Dickens, P.Eng.	Kerr Wood Leidal Associates
Director-at-large	Shane Johnson, P.Eng.	Klohn Crippen Berger
Director-at-large	Maureen Kelly, P.Eng.	Golder Associates
Vancouver Island Liaison	Carl Miller, P.Eng.	WSP Canada Inc.
Director-at-large	Asifa Samji, MBA	Stantec
Director-at-large	Gurjit Sangha, P.Eng.	Opus International Consultants (Canada) Ltd.
Director-at-large	John Sherstobitoff, P.Eng.	Ausenco
Director-at-large	Homayoun Vahidi, P.Eng.	IBI Group
Director-at-large	Selena Wilson, P.Eng.	McElhanney Consulting Services Ltd.

2016-2017 Ex Officio Directors

Past Chair	Ken Wiecke, P.Eng.	Amec Foster Wheeler
Young Professionals Group	Zahra Pirani, P.Eng.	CH2M HILL Canada Limited
Building Engineering Committee	Michael Carlino, P.Eng.	WSP MMM Group
ACEC Director	Steve Fleck, P.Eng., MBA	Stantec

2016-2017 Executive Committee



Tim Stanley, P.Eng.
Chair



Jeannine Martin
Vice-Chair/Treasurer



Kevin Savage, P.Eng.
Designated Director



Ken Wiecke, P.Eng.
Past Chair



Keith Sashaw
President & CEO

Chair's Report



It has been a pleasure serving as Chair of the Board of ACEC-BC over this past year. I have had the opportunity to work with the best in our industry on many initiatives. During my tenure I have been exposed to many member firms and through these experiences my respect for the quality and integrity within our industry has been confirmed and escalated.

ACEC-BC has accomplished a great deal this year and this would not have been possible without the support of the great ACEC-BC staff and committee members.

In addition, we have an engaged board with tremendous expertise that is key to our success.

While continuing with previous initiatives such as QBS and Onerous Contract Clauses, early in the year we highlighted some key issues we would like to address. The first involved interface with APEGBC on two important matters, namely Corporate Registration and usage of the Engineer's Seal. Secondly was contact with the membership to ensure we obtain timely feedback with regards to the organization's value proposition.

Throughout the year we maintained ongoing discussions with APEGBC on both matters identified above. Representatives from our member firms participated on the APEGBC Corporate Practice Advisory Task Force. In addition, ACEC-BC made a substantial submission to the task force which highlighted our position with regards to Corporate Registration. In response to a request from the Task Force, Keith Sashaw and I were offered the opportunity to present our paper to the Task Force and provide clarifications in response to queries. The final recommendations from the Task Force to APEGBC Council (the Task Force Report has been approved by APEGBC Council) contains many of our suggestions. We look forward to participating in discussions during the next phases of the APEGBC process as they move forward with Corporate Registration. Discussions relating to the Use of the Engineer's Seal are ongoing in a positive manner and we look forward to working with APEGBC to clarify this matter with regards to key business areas within our industry.

In addition to the Past Chairs' Dinner and Leaders' Dinner, we initiated meetings between the ACEC-BC Chair and President with senior executives of selected members as well as prospective members. This facilitated input with respect to industry issues as well as feedback on the ACEC-BC value proposition.

As forecast, with the downturn in parts of our industry, revenues from membership dues were down. However, the ACEC-BC staff under the direction of our President managed this challenge well and completed the year within the tight budget approved by the Board. I thank Keith Sashaw and his team for the great work controlling expenses while at the same time maximizing revenue outside of membership dues.

We continue to deliver value to our membership through the many programs ACEC-BC provides such as Client Mixers, conferences, seminars, workshops and of course the Awards of Excellence Gala. This year we have successfully developed new innovations to our suite of offerings that add to our value proposition such as the Small Firm Council and the HR Committee.

I continue to watch the Young Professionals Group (YPG) with great admiration. The contribution of the YPG to ACEC-BC is nothing short of stunning. A perfect example is the recent First Annual YP Conference. The YPG organized this one and a half day conference for 60+ young professionals with precision. The focus for this year was Leadership and the event sold out on attendance and sponsorship. The content was current, interesting and valuable with excellent presenters. The YPG continuously demonstrates that the future of our industry is in very good hands.

It has been an honour to serve as Chair of this great organization. However the organization would not be nearly as successful without the enormous contributions by Lia Spidlen, Alla Samusevich, Brian McAskill and of course Keith Sashaw. Thank you for your expertise, energy and dedication to ACEC-BC.

Finally, thank you to all the Board Members, Committee Members and the many other volunteers that make this organization successful.

Respectfully submitted,

A handwritten signature in black ink that reads "Tim Stanley".

Tim Stanley, P.Eng.
Chairman of the Board of Directors
Association of Consulting Engineering Companies–British Columbia

President's Report



External Environment

In last year's report, I noted that while BC leads the country in overall general economic performance, the downturn in the resource sector is challenging for many of our members. That, coupled with a slowdown in some infrastructure projects is impacting the Association. I also noted that another continuing trend is the consolidation of engineering firms, resulting in mergers and acquisitions.

These factors are still in play, although we are beginning to see some signs of a recovery in the resource sector. While mergers and acquisitions still occur, we have been successful in attracting a number of smaller firms.

The big question is what the impact will be of the last provincial election, held on May 9th.

Policy Initiatives

One issue of growing importance is the labour outlook for engineers in BC. According to a study in which ACEC-BC participated with APEGBC, ASTTBC and the Asia Pacific Gateway Skills Table, it was forecast that BC will see more than 31,000 engineering related job openings that need to be filled by 2024. Nearly 11,500 new jobs in 31 key occupations will be created.

We have had ongoing meetings with representatives of ASTTBC, APEGBC and the Asia Pacific Gateway Skills Table to follow up on previous Labour Market Information reports that will be invaluable to our members planning future labour demand and supply. In response to some of the challenges raised by these studies, ACEC-BC created the Human Resources Committee to assist members in dealing with labour issues. This new committee is meeting regularly and has identified a number of activities that it intends to pursue.

On a similar topic, we have met with the Dean and Associate Dean of the School of Applied Science to discuss the current situation regarding engineering schools in BC, and they have requested our assistance in supporting their initiatives to obtain more funding for engineering programs.

Another topic of major importance has been the development of an ACEC-BC response to the APEGBC Advisory Task Force on Corporate Practice. In its submission, ACEC-BC recommended that, since many corporate entities and comparable private and public sector bodies procure the bulk of their engineering work by engaging consulting engineering firms, the introduction of a regulatory regime for only the consulting industry would unduly disadvantage that particular group. If the parameters of such a regime are to function effectively as a regulatory measure, ACEC-BC believes that both the Act and Bylaws must be clarified so that all entities that employ professional engineers are regulated.

Further, ACEC-BC recommended that entities which are regulated should adopt best practices such as the mandatory use of Qualification Based Selection and use of accepted standard contracts such as CCDC documents, MMCD or ACEC documents.

We also had a meeting of ACEC-BC members to review and discuss the sealing requirements under APEGBC's OQM program. It was agreed that ACEC-BC will continue to voice its dissatisfaction at the requirement that seals have to be applied on incomplete documents.

Advocacy

ACEC-BC continues to advocate on behalf of our members and the consulting engineering sector.

Our annual Government Relations Day was well attended with over 30 MLA's, including six Cabinet Ministers attending our lunch, and over 80 people attending our Spring Reception. The Executive Committee met with the Minister of Advanced Education; the Minister of Jobs, Tourism and Skills Training; the Minister of Transportation and Infrastructure; and the Minister of Energy and Mines.

ACEC-BC continues to issue Onerous Clause Alerts as complaints are forwarded by our members. In addition we have had direct interactions with several clients, including Metro Vancouver on specific contract clauses.

On the media awareness side we have also been busy, submitting a number of op-eds to the Vancouver Sun – one on the importance of being a preferred client in order to successfully deliver infrastructure projects, and another on the difference between capital and operating debt. We also published a 12 page supplement on ACEC-BC issues in Business in Vancouver, as well as our annual Awards supplement. Total media impressions for ACEC-BC over the past year reached nearly 27 million.

ACEC-BC is developing alliances with other organizations, such as the BC Road Builders and Heavy Construction Association, the Electrical Contractors Association, ASTTBC and others to deal with issues of mutual interest.

Activities

ACEC-BC is well-known for the events we offer to members and the industry. Between September 2016 and June 2017, ACEC-BC presented 57 events, including 8 Professional Development seminars, 15 mixers, 14 YPG functions, 12 Policy Breakfasts, 2 Golf Tournaments, a very successful Transportation Conference, a YP Conference, a spectacular Awards of Engineering Excellence Gala and other events. As per the policy direction established by the Board a few years ago, these events are generating significant non-dues sources of revenue.

ACEC-BC is an active and responsive organization, acting in the best interests of the consulting community. Driven by the direction provided by hard-working volunteers, including Directors, Committee members and others, ACEC-BC continues to provide innovative programs and services. This could not be accomplished without the hard work and dedication of ACEC-BC's staff: Brian McAskill, Communications & Policy Analyst, Alla Samusevich, Events and Accounting Coordinator and Lia Spidlen, Marketing Coordinator. I would also like to acknowledge the contribution by Kate Cockerill who works with us on the production of the ACEC-BC Awards program.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Keith Sashaw". The signature is fluid and cursive, written over a white background.

Keith Sashaw
President & CEO
Association of Consulting Engineering Companies–British Columbia

Minutes of the 2016 ACEC-BC AGM

held Thursday, June 7th, 2016 (5:00 pm) at the Coast Plaza Hotel, 1763 Comox Street, Vancouver, BC

1. Call to Order and Notice of Meeting

The meeting was called to order by Ken Wiecke. Keith Sashaw confirmed that a quorum was present.

Special guests were introduced: Ralph Sultan, P.Eng., MLA West Vancouver-Capilano; Jack Davidson, Kelly Scott and Chad Tenney, P.Eng., BC Road Builders; Dr. Michael Wrinch, P.Eng. and Janet Sinclair, APEGBC; Jason Jung, ASCT, P.Tech, ASTTBC; Jeff McLellan, BFL Canada Insurance Services; Pascale Hansen, Euler Hermes; and Everett McLaren, Canada Culvert.

Past Chairs in attendance were recognized: John Collings, P.Eng.; Ian Stewart, P.Eng.; Jack Lee, P.Eng., FEC; Doug Hinton, P.Eng.; John Watson, P.Eng., FEC, FGC (Hon.); Chris Newcomb, P.Eng., Mike Currie, P.Eng., FEC; Cameron Gatey, P.Eng.; Francois Morton, MBA; John Ritchie, P.Eng.; Angus English, P.Eng.; and Neil Cumming, FACI, P.Eng.

2. Minutes of Annual General Meeting of June 4th, 2015

Ken Wiecke presented the minutes of the previous Annual General Meeting. Darryl Matson moved that the minutes of the previous AGM be approved as presented. The motion was seconded by Gurjit Sangha. The motion was adopted.

3. Annual Report 2015-2016

Keith Sashaw presented the annual report, and highlights of the President's report, including:

- ❖ There has been a downturn in the resource sector, along with a slowdown in some infrastructure projects, resulting in lower employment in the industry over the past two years.
- ❖ Onerous clauses and promotion of QBS are two strategic priorities identified by the board. ACEC-BC has created a website yes2qbs.com promoting the use of QBS, along with a one minute QBS video. We have also developed a Municipal Toolkit to support client implementation of QBS.
- ❖ Onerous clauses are being addressed by: lunch and learn sessions on What to Look Out For in Agreements; Contract Corner articles in the newsletter; letters to municipalities (Burnaby, Metro Vancouver and others) on behalf of members; and issuing two Onerous Clause Alerts to members. A member survey showed the effectiveness of the Onerous Clause Alert process, and strong support.
- ❖ MLA Day was very successful, with 30 MLAs and several Cabinet Ministers attending the lunch, and more than 100 attendees at the evening reception. Our key messages were in support of infrastructure spending at all levels; road pricing and a more strategic approach to transit issues; and QBS.

- ❖ ACEC-BC worked with BC Road Builders and Heavy Construction Association to discuss issues of mutual interest with municipalities, and participated in the Construction Council of Vancouver Island to build strong linkages.
- ❖ Members are informed and engaged through our many events, including the Awards Gala and Transportation Conference.
- ❖ The Executive Committee has met regularly with other organizations including APEGBC, AIBC and ASTTBC. ACEC-BC also meets regularly with key individuals at BCMOTI, BC Hydro, Metro Vancouver and other client organizations.
- ❖ ACEC-BC has continued to actively advocate through various media, with 27 million media impressions.
- ❖ ACEC-BC continues to be a volunteer-driven organization through the board and many committees.

4. Treasurer's Report for 2015-2016

Tim Stanley presented the financial statements for the fiscal year ending March 31, 2016.

Revenues and expenses for the 2015-2016 fiscal year are:

Item	Actual	Budget	Variance
Revenue	\$1,040,158	\$1,055,600	(\$15,442)
Expenses	\$1,057,871	\$1,060,400	\$2,529
Net	(\$17,713)	(\$4,800)	(\$12,913)

In support of advancing the Qualifications Based Selection (QBS) initiative the board approved the creation of a QBS website. This website complements the video produced in 2015 and was funded through a special initiative line item in the 2015-2016 budget. The ultimate shortfall from budgeted revenue was (\$15,442) which essentially reflects lower revenues from membership dues and projected investment income.

The 2016-2017 fiscal budget has been approved by the board. A small surplus is anticipated, with projected total revenues of \$1,031,000 and expenses of \$1,027,850 (not including amortization).

Tim Stanley asked if there were any questions concerning the financial statements. As no questions were raised, Tim asked for a motion that the 2015-2016 Financial Statements be approved as presented. So moved by Homayoun Vahidi. The motion was seconded by Darryl Matson. The motion was adopted.

The ACEC-BC's financial statements are independently audited by Wolrige Mahon LLP.

Tim Stanley asked for a motion that ACEC-British Columbia appoint Wolrige Mahon LLP, Chartered Accountants as the auditor for the association for the 2016-2017 fiscal year. So moved by Andrew Townend. The motion was seconded by Terry Wong. The motion was adopted.

5. Nominating Committee Report

Catherine Fritter presented the report of the ACEC-BC Nominating Committee.

Two vacancies are opening on the board as the terms of Jeannine Martin and Homayoun Vahidi, P.Eng. come to an end. In addition, David Daw, P.Eng. and Chris Mealing, P.Eng. resigned from the board during the past year. Ken Wiecke, P.Eng. has agreed to step down, and will serve as an ex officio director for 2016-2017 as Past Chair. Jeannine Martin has been appointed to complete the remaining two years of Ken's term. Homayoun Vahidi has been appointed to complete the remaining one year in David Daw's term, and Carol Campbell, P.Eng. of Opus DaytonKnight Consultants has been appointed to complete the remaining three years of the term vacated by Chris Mealing.

Nominated as ACEC-BC Directors for four year terms are:

- ❖ Maureen Kelly, P.Eng., Golder Associates (Vancouver)
- ❖ Selena Wilson, P.Eng., McElhanney Consulting Services (Prince Rupert)

6. Election of Board of Directors

Catherine Fritter noted that, as the number of nominees is equal to the number of available vacancies on the board, in accordance with the by-laws the nominees are declared to be elected.

7. Outgoing Chair's Remarks

Ken Wiecke noted that procurement practices and onerous contract language have been the primary issues since ACEC-BC was first established. Although these issues have been with us for many years, ACEC-BC has been able to achieve some progress over this past year.

We have intervened on specific RFQs and RFPs with several municipalities, including the City of Burnaby, CRD, and the City of Fernie, with varying degrees of success. These efforts have had a direct effect, and we need to do more. The best way for members to promote fair contract language is to decline participation, and walk away from onerous contracts. When members encounter onerous contract language, they should notify ACEC-BC.

Members need a better understanding of QBS and how it works, so they can explain the benefits to clients. ACEC-BC has continued to develop excellent resources for members and clients to this end.

Through participation in the many events and meetings organized through the year, we have achieved better relationships with clients and related associations. This networking is a key benefit of membership, and all members are encouraged to take part. In particular, the Young Professionals Group has continued to show great energy and enthusiasm in the development of their programs.

Ken thanked the ACEC-BC board and staff for their efforts over the past year. He thanked and acknowledged the contributions of outgoing Past Chair, Catherine Fritter; David Daw; and Chris Mealing.

Gifts were presented to outgoing directors Catherine Fritter and Siobhan Robinson, P.Eng. (YPG Chair).

Ken introduced and passed the gavel to incoming Chair Tim Stanley, P.Eng. of Stratice Consulting.

8. Incoming Chair's Remarks

Tim Stanley commented that he is looking forward to the year ahead. ACEC-BC has an impressive heritage, and the presence of so many Past Chairs here today is a testament to how well the industry works together, while competing with one another. We are respected by the public and decision makers for technical expertise, creative solutions and objective advice.

In BC we have a thriving and growing economy. Though the resource sector is an important element, the BC economy is more diversified today than in the past. Many factors will affect the success of our province and Canada as a whole – real estate prices, transit and transportation, commodity prices, pipelines and LNG, among others. ACEC-BC must play a meaningful role in promoting the projects and initiatives that will help to achieve this success.

Tim thanked Ken Wiecke for his leadership over the past year and presented him with a gift.

9. Other Business

Acceptance of Acts and Proceedings of the members of the ACEC-British Columbia Board of Directors

Tim Stanley asked for a motion *that all acts and proceedings of the directors of ACEC-British Columbia as exhibited by the minutes of the meetings of that body, held since the last meeting of the members of the association and all acts and proceedings taken, all payments made by or to the officers, agents or employees of ACEC-British Columbia under authority of or pursuant to any by-law, resolution, motion, instruction or direction contained in the by-law and minutes of the board of directors held subsequent to the last annual meeting of the members of the association, be, and the same are hereby ratified, approved and confirmed.*

So moved by Jeannine Martin. The motion was seconded by Mike Currie. The motion was adopted.

10. Adjournment

Tim Stanley asked if there was any further business from the floor. There being none, he declared the 2016 ACEC-BC Annual General Meeting adjourned.

Vancouver Island Liaison



Annual Report submitted by
Carl Miller, P.Eng.
Chair, Vancouver Island Liaison Committee

My role is to chair the Vancouver Island Liaison Committee (VILC) and to participate in the ACEC-BC Board Meetings and initiatives. The Committee meets to review business issues pertinent to member companies on Vancouver Island and to provide a communication corridor from Island members to the ACEC-BC Board.

As well as business issues, an important component of the Committee's work relates to the planning and organization of social events for member companies on Vancouver Island.

Over the last several years, the Vancouver Island construction industry has enjoyed a significant investment in infrastructure including upgrades to the John Hart Dam, the construction of the two North Island Hospitals, upgrades to a number of major water and wastewater treatment plants, replacement of the Johnson Street bridge, improvements at airports such as Victoria, Tofino and Port Alberni, an active program of school seismic upgrades, along with major road construction projects including the ongoing McKenzie Interchange, the West Shore Parkway extension and further upgrades to the Malahat (Trans-Canada) Highway 1. This backdrop of public sector investment has been augmented by a strong housing market across the Island. Member firms have benefited from ACEC-BC initiatives including the onerous clause alert program and contract language resource documents.

The VILC continues to be an advocate for the Construction Council of Vancouver Island (CCVI); a committee that brings together stakeholders of the Island's public construction community to participate in collaborative forums to share perspectives on project delivery and capital asset management. Looking forward, the committee will seek opportunities to engage further with the Construction Council of Vancouver Island, advancing awareness on Qualification Based Selection procurement and participating in discussion on local construction innovation and industry trends.

In February 2017, the Liaison Committee provided support to the ACEC-BC government relations mandate and the success of the MLA Luncheon and Spring Reception at the Hotel Grand Pacific in Victoria. The annual ACEC-BC Vancouver Island Mixer is scheduled to be held in Victoria in the Fall of 2017 with a theme of sustainability.

This year marks the last in my four year term as a Director with ACEC-BC. I have enjoyed the privilege of Chairing the committee and look forward to continuing to offer my support as an active member.

Committee Members

Carl Miller, P.Eng. (Chair)
Stephen Bean, P.Eng.
Peter Ferguson, P.Eng.
Greg Ovstaas, P.Eng.

Eric Pettit, P.Eng.
Caroline Silins, EIT (YPG)
Ian Whitehead, P.Eng.

Thompson-Okanagan Liaison



Annual Report submitted by
David Gibson, P.Eng., Chair
Thompson-Okanagan Liaison Committee

2017 is proving to be a very busy year in the Thompson-Okanagan. We are very pleased to report that members in the Thompson-Okanagan region continued an excellent working relationship with the City of Kelowna through regular meetings with Alan Newcombe, P.Eng., Director of Infrastructure for the City of Kelowna.

With over 25 firms on the distribution list, ACEC-BC members and the City of Kelowna have had a number of very positive meetings, discussing issues of mutual interest. In addition, ACEC-BC and the City of Kelowna are hoping to deliver a mixer in mid/late fall.

In addition to our activities with the City of Kelowna, 57 golfers came out to our annual Kelowna Golf tournament on September 16th, 2016. We used this opportunity to build links with the Southern Interior Construction Association, the Urban Development Institute – Okanagan Chapter, and the Canadian Home Builders Association of Okanagan.

Our local Young Professionals Group delivered 3 breakfast seminars, which attracted over 40 attendees. The seminars covered contracts, career paths in consulting engineering, and green infrastructure.

We are also looking at developing a calendar of activities calling for mixers with other client groups in the Okanagan Valley.

We look forward to continuing to develop positive relations with other client groups in the Thompson-Okanagan region and to delivering services to members based in this region.

Committee Members

David Gibson, P.Eng. (Chair)
Gerda Bolton, P.Eng.
Dave Cullen, P.Eng.
Don Daigneault
Brett deWynter, P.Eng.
Paul Ell, P.Eng.
Alan Emery, P.Eng.
Mark Forsyth, P.Eng.
Sheldon Gull, ASCT
Michael Hobson, Eng.L.
Stephen Horsman, P.Eng.
Gerald Imada, P.Eng.
Jim Kentel, P.Eng.
Forrest Klotzbach, P.Eng.

Shane Lapp, P.Eng.
Mike Laverdiere
Glenn Lohnes, ASCT
Diego Mandelbaum, P.Eng.
Troy Martin, P.Eng.
Scott Martin, P.Eng.
John Murray, P.Eng.
Brendan Murtagh, P.Eng.
Mike Naylor, P.Eng.
Timothy Phelan, P.Eng.
Ben Rawlinson, ASCT
Jim Roe, ASCT
Greg Shaw

MMCD Report



Annual Report submitted by
Martin Jobke, P.Eng.
MMCD Director

ACEC-BC continues to play an active role on the MMCD Board of Directors. The MMCD technical specifications are widely accepted and used throughout BC. The last year has seen a further increase in the overall membership numbers. Like ACEC-BC there are several committees within MMCD. The committees are tasked

with updating and maintaining the specifications, facilitating training, and marketing. Training and ongoing paper and electronic document sales continue to be the largest revenue sources for MMCD.

The Client Consultant Agreement update has been delayed until a number of other documents and products are finalized. These initiatives include:

1. Design Drawing Standards
2. Civil 3D drawing templates
3. Standardized Asset Management template
4. Civil 3D data transfer into Asset Management Systems
5. By-Law template

These initiatives are ongoing. As part of the implementation MMCD plans to offer training sessions specifically focused on these new tools. An updated Client Consultant agreement update will make reference to these new standards and templates.

The MMCD Board also has representation from the BC Construction Association. Ongoing concern remains that Owners and Consultants continue to introduce more and more special provisions thus diminishing the benefit of having standardized documents. The MMCD documents are regularly amended to reflect changes and improvements sought by industry, represented by the Owners, Consultants and Contractors.

The MMCD will be updating the Platinum Edition documents later this year and we are seeking input from municipalities using the documents. Member firms that work/act for municipalities are also invited to submit their supplementals to be considered for inclusion in the new version of the MMCD documents to admin@mmcd.net.

The Winter Edition of the Asset Management BC newsletter is now available through the MMCD website with information and updates on a number of key issues.

ACEC-BC Representatives on the MMCD Board of Directors

Carol Campbell, P.Eng.

Martin Jobke, P.Eng.

Building Engineering Committee



Annual Report submitted by
Graham Lovely, P.Eng.
Chair, Building Engineering Committee

The ACEC-BC Building Engineering Committee represents member firms involved in building projects in both public and private sectors. The committee has strong links to the architectural profession in British Columbia.

ACEC-BC members look forward to continued activity on committees with the Architectural Institute of BC, BC Government Ministries and other industry-related agencies. The committee is engaging with and pursuing links with trade organizations as well, in an effort to bring all members of the building sector to the table.

The following disciplines are represented on the Committee:

- ❖ Structural Engineering
- ❖ Building Science
- ❖ Mechanical Engineering
- ❖ Code
- ❖ Electrical Engineering
- ❖ Geotechnical Engineering

The objectives of the Building Engineering Committee are to:

- ❖ Promote ACEC-BC core values.
- ❖ Promote ACEC-BC member firms' business interests to both public and private sector clients.
- ❖ Provide a forum for dialogue between the various client and architectural groups active in the field of Building Design.
- ❖ To monitor government and other groups' initiatives that impact on the Building Engineering Practice.
- ❖ Tackle industry relevant topics and bring these concerns to the wider membership of ACEC-BC.

The Committee's work during this past year included:

- ❖ Participation on the Public Construction Council.
- ❖ Monitoring and providing input on common AIBC/ACEC-BC issues (BIM, Fees, D/B and P3 projects, etc).
- ❖ Monitoring and providing input on APEGBC related issues such as the OQM Documents and the proposed P.Tech. designation.
- ❖ Reviewed the benefits of using the electronic seal.

The Building Engineering Committee will continue to work with architects and other groups to promote ACEC-BC members and the work of our engineering firms. Initiatives on the committee's agenda for the upcoming year include creating "hot" topic discussion papers or watching briefs.

The Committee has begun a thorough review of its strategic priorities for the years ahead. The committee has identified a number of issues related to procurement; contract language; regulatory requirements; and project scope, fees and payment. These issues will be prioritized in the months ahead, with a focus on a smaller number of key issues that can be dealt with effectively by the members of the committee.

I would like to take this opportunity to thank all committee members who have provided the commitment, time and expertise to assist us. I look forward to another year of continuing success.

Committee Members

- Graham Lovely, P.Eng. (Chair)
 Guillaume Vadeboncoeur, P.Eng. (Vice-Chair/Secretary)
 Fadi Ghorayeb, P.Eng., Struct.Eng., MStruct.E., FEC (Past Chair)
- Chris Anderson, P.Eng. Andrew Tashiro, P.Eng.
 Boriana Arguirova, P.Eng. Graeme Terris, P.Eng., C.Eng.
 Greg Ciura, P.Eng., Struct.Eng. Jeff Verge, P.Eng.
 Karim Karimzadegan, P.Eng. Met Ulker, P.Eng., FEC
 Clint Low, P.Eng., Struct.Eng., FEC

- ❖ Responsibility of different parties on capital contracts Requests for Information and changes.
- ❖ Consulting Engineer’s involvement during start up and commissioning of the facilities.

The committee chair, along with the Chair and President of ACEC-BC met with Carol Mason, Chief Administrative Officer of Metro Vancouver, and discussed some major items of mutual interest.

With ACEC-BC’s support we organized the 2017 Metro Vancouver Mixer which was very well attended and received by ACEC-BC and MV attendees.

The committee prepared and issued a questionnaire to members regarding the current and potential items and topics of interest for carrying out business with Metro Vancouver.

In the next 12 months, the Metro Vancouver Liaison Committee will:

- ❖ Continue to meet regularly with Metro Vancouver’s senior staff to discuss the potential items of interest.
- ❖ Reflect on the topics evaluated and discussed in the past year and update those based on discussions within the committee as well as results of the online Questionnaire.
- ❖ Arrange for another meeting with Metro Vancouver’s CAO to review the achievements and determine the path forward.
- ❖ Organize the 2018 Metro Vancouver Mixer, search for a suitable speaker and organize the keynote speech.

Metro Vancouver Liaison Committee



Annual Report submitted by **Arash Masbough**, PMP, P.Eng. Chair, Metro Vancouver Liaison Committee

The Metro Vancouver Liaison Committee represents member firms that provide engineering services to Metro Vancouver’s departments in the areas of water, liquid waste, solid waste, housing, and parks. The objective of the Committee is to *provide an opportunity to discuss industry (ACEC-BC) and client (Metro Vancouver)*

issues in an open manner to continually improve the overall level of service and satisfaction by all parties.

ACEC-BC and Metro Vancouver have a shared objective of ensuring the taxpayers of Metro Vancouver receive value for dollar for their upcoming multibillion dollar infrastructure projects. ACEC-BC can be a large partner to help to achieve these objectives identified in the Metro Vancouver Board Strategic Plan 2015 to 2018:

- ❖ Explore opportunities to do more with our existing investments in infrastructure.
- ❖ Attain the highest possible levels of excellence in meeting our service delivery responsibilities.
- ❖ Build and facilitate collaborative processes, including those that engage citizens, to achieve a robust partnership working together for a sustainable region.
- ❖ Deliver services effectively and efficiently at the regional level.
- ❖ Ensure that opportunities for increased efficiencies are evaluated and implemented.

In 2016-2017 the committee had regular meetings with the General Managers of Metro Vancouver’s Liquid Waste; Water Services; and Solid Waste departments. We also had regular and task-specific meeting with other senior managers and directors on specific items. Those specific items included:

- ❖ RFP language and procurement improvements.
- ❖ Accuracy of capital cost estimates provided by Consulting Engineers.

Committee Members

- Arash Masbough, P.Eng. (Chair) Dan Hajdukovic, P.Eng.
 Ali Azizian, P.Eng. John Herbert, P.Eng.
 Mike Charko, P.Eng. David Main
 Angus English, P.Eng. Sunny Mangat, P.Eng.
 Peter Galbraith, P.Eng. Neil McQuitty, P.Eng.
 Chery Gomes, EIT (YPG) Roger Warren, P.Eng.

Municipal Engineering Committee



Annual Report submitted by **Marc Winer**, P.Eng. Chair, Municipal Engineering Committee

The Municipal Engineering Committee represents member firms that provide engineering services to municipal and regional clients. The objectives of the Committee are to:

- ❖ Develop and maintain business relationships with municipal and regional clients.
- ❖ Promote QBS and standardized contract language.
- ❖ Represent members on specific procurement, contract language and other issues.
- ❖ Provide forums for client organizations to inform member firms of their expected needs for consulting services and for ACEC-BC to educate client organizations on the services and capabilities of member firms.

Highlights of the Municipal Engineering Committee's work included:

- ❖ Hosting the following Mixers:
 - Richmond/Delta
 - Burnaby/New Westminster
 - City of Langley, Township of Langley and White Rock
 - City of Surrey
 - City of Vancouver
 - Coquitlam/Port Moody
 - City and District of North Vancouver
- ❖ Involvement in several specific procurement issues raised by member firms, resulting in correspondence from ACEC-BC to the relevant client organizations explaining concerns, recommending solutions and suggesting future practices.
- ❖ Met with the North Vancouver Chamber of Commerce to discuss the opportunity to promote consulting engineering companies and QBS to a select group of clients on the North Shore.
- ❖ Met with the BC Roadbuilders and Regional Engineers Advisory Committee to voice concerns and discuss opportunities with the intention of improving the design and construction of municipal infrastructure projects. Additional meetings will be held on a bi-annual basis.
- ❖ Presentation by member firms of showcase projects at the MMCD/MED AGM in Coquitlam.

Planned work for next year:

- ❖ Meet with selected municipalities to present our recommendations for procurement and contract language.
- ❖ Address specific procurement and contract language issues as they arise.
- ❖ Meet with the BC Roadbuilders and Regional Engineers Advisory Committee on a bi-annual basis.
- ❖ Work with the North Shore Chamber of Commerce to develop a forum to promote consulting engineering on the North Shore.
- ❖ Increase the number of municipal staff attendees at the mixer events (including YPG members).
- ❖ Host the following Municipal Mixer events:
 - Fraser Valley (Mission, Maple Ridge, Chilliwack)
 - Richmond/Delta
 - Burnaby/New Westminster
 - Township of Langley, City of Langley, White Rock
 - City of Vancouver
 - City of Surrey

Committee Members

Marc Winer, P.Eng. (Chair)

David Moschini, P.Eng. (Vice-Chair)

Yariv Ben-Shooshan, P.Eng. (Vice-Chair)

Arash Masbough, P.Eng. (Chair, Metro Vancouver Liaison)

Adrian Corlett, P.E.

Ken Pun, P.Eng.

Michael Florendo, P.Eng.

Nav Sandhu, P.Eng.

Cameron Gatey, P.Eng.

Roger Warren, P.Eng.

Colin Kristiansen, P.Eng.

Rob Wridgway, P.Eng.

Zahra Pirani, P.Eng. (YPG)

Transportation Committee



Annual Report submitted by
Martin Jobke, P.Eng.,
Chair, Transportation Committee

The ACEC-BC Transportation Committee continues to provide strong representation through a number of Committees and Subcommittees to the transportation industry including:

- ❖ BCMoTI Liaison Committee-at-large
- ❖ TransLink Liaison
- ❖ Bridge Subcommittee
- ❖ Climate Change Policy Subcommittee
- ❖ Quality Assurance Subcommittee
- ❖ eRISP Subcommittee

Transportation Infrastructure spending has and will continue to play an important role to member firms and the overall BC economy going forward. The Transportation Committee is focused on enhancing the relationship between Industry and the various organizations within BC tasked with planning, delivering and managing this infrastructure.

This past year we have once again seen a high level of engagement through the annual Transportation Conference, mixers and ongoing dialogue between numerous private and public organizations. The next Transportation Conference is scheduled for January 30, 2018. Progress in several areas has been made:

- ❖ CAiCE / Civil 3D Conversion: The Ministry is now Civil 3D friendly and training videos have been prepared by the Ministry. Consultants are able to retrieve videos from a website using the Retrieve Technologies Engineering App.
- ❖ Climate Change Adaptation: BCMoTI's climate change adaptation policy has passed Council and is a necessary requirement for work on BCMoTI projects. The APEGBC Practice Guide should be available very soon.
- ❖ Bridge Discipline Subcommittee: This Subcommittee has been inactive for a few years but is now active with a busy agenda.
- ❖ BC Bid Replacement Project: The updated terms with RFP will be published in July 2017 with the expectation that a replacement system will be in operation late 2018/early 2019.
- ❖ Geotechnical Design Criteria: A subcommittee of ACEC-BC members is reviewing the BCMoTI updated geotechnical design criteria and will potentially make recommendations to the Ministry.
- ❖ Insurance Specifications INS-132: "Additional Named Insured" remains a topic for discussion.
- ❖ PTOE Sign-off of Traffic Management Plans: ACEC-BC continues to work with BCMoTI to develop language for updating the TCM.
- ❖ TransLink has continued to evolve and develop as an organization with a variety of new faces at the senior leadership level. Kevin Desmond assumed the role of Chief Executive Officer during 2017, and Sany Zein was appointed as the Vice President, Infrastructure Management and Engineering.

- ❖ The ACEC-BC TransLink Committee has met on a quarterly basis to discuss procurement, insurance, and other issues pertinent to ACEC-BC member firms. Meetings have been productive.
- ❖ After 18 months of collaboration with governments, stakeholders and public engagement, TransLink completed the first part of the Regional Transportation Strategy (RTS). This Strategic Framework sets out the vision, goals, principles, strategies and key initiatives to help guide transportation decisions in Metro Vancouver over the next 30 years. A more detailed implementation plan will begin in the Fall of 2017.

BCMoTI Liaison Steering Committee

Pat Cruickshank, P.Eng. (Chair) Efrsini Drimoussis, P.Eng.
Bernie Teufele, P.Eng. (Past Co-Chair) Paul Evans, P.Eng.
Maurizio Ponzini, P.Eng. (Secretary) Trevor Towers, P.Eng.

TransLink Liaison Steering Committee

Bernard Abelson, P.Eng. (Chair) Aled Griffiths, P.Eng.
Martin Jobke, P.Eng. (Past Chair) Ian Rokeby, P.Eng.
Mike Chin, P.Eng. Peter Senez, P.Eng.

Resource and Energy Committee



Annual Report submitted by
Terry Wong, P.Eng.
Chair, Resource and Energy Committee

Committee Objectives

1. Build a strong relationship with the resource and energy business sector, based on learning and information exchange with one another.
2. Proactively keep each other informed of interests and issues.
3. Promote the interests of ACEC-British Columbia member firms to resource and energy firms and government that use or can influence the use of our services.
4. Main focus is on BC Hydro and the BC Provincial Government with private firms only as need arises from our member firms.
5. Engage the Provincial Government in a proactive discussion to better utilize consulting engineers on projects involving the resource and energy sectors.

Committee Focus

BC Hydro continues to be the major focus of the committee. The underlying principle when ACEC-BC is dealing with BC Hydro is to maximize the benefits to ACEC-BC Member firms when working/bidding with BC Hydro. This would include maximizing work contracted, making a fair and non-onerous bidding process, having terms and conditions that are fair for consultants, having a steady stream of services required, providing long range forecasts of service requirements, and maximizing business returns and opportunities for ACEC-BC member firms.

The Committee continues to monitor and discuss opportunities and issues with the LNG industry, oil & gas pipeline developments and the mining sector.

Contact with the Provincial Government is of continued interest, with outreach to key ministries and officials to not only keep connected but to show our ongoing support for the growth of the resource and energy sector.

New Committee Chair

Terry Wong announced that he will be retiring from WSP as of June 30, 2017 and the Committee has voted in Patrick Korner of Tetra Tech as the new chair of the Resource and Energy Committee and Dani Delaloye of Hatch as the Assistant Chair for 2017-2018.

2016-2017 Activities

- ❖ Breakfast session held on February 17, 2017 with Paul Kariya, Executive Director, Clean Energy BC on *What are the Clean Energy Opportunities in BC-Looking Forward*.
- ❖ Breakfast session held on May 26, 2017 with Andy Calitz of LNG Canada on Shell's stake in BC's LNG market.

BC Hydro Steering Committee

Committee Objectives

Improving business results between the consulting engineering profession and BC Hydro through sharing and learning of each other's business practices and desired business goals by:

1. Building a strong relationship based on learning and information exchange between each other.
2. Broadening the discussion between ACEC-BC and BC Hydro to encompass all areas of BC Hydro engineering business units – generation, distribution, transmission, sustainability/ environmental, power smart and issues that improve the overall consulting engineering profession.
3. Having open and frank discussions on what works and does not work with respect to project implementation and provision of consulting engineering services.
4. Proactively keeping each other informed of business interests and issues.
5. Maintain and enhance interactions with BC Hydro and strive for improved efficiency of ACEC-BC member services.

2016-2017 Activities

- ❖ Breakfast seminar held on March 2, 2017 with BC Hydro presentation on *Safety by Design*.
- ❖ Organizing mixers on a yearly basis in order to keep members informed on current business outlook and projects that BC Hydro has potentially slated for the year, and new business procedures that BC Hydro will be implementing in the near future. The most recent mixer was held on April 18, 2017.

ACEC-BC / BC Hydro Procurement Subcommittee

Chaired by Terry Wong, who will be retiring from WSP, the subcommittee has voted Bruno Bagneres of Klohn Crippen Berger as the new chair for 2017-2018. The subcommittee seeks to:

1. Assist BC Hydro in any way possible in making it easier to engage consultants so that BC Hydro can realize its business objective.
2. Address any ongoing issues or concerns with RFPs, RFSQs, RFQs, interaction during bidding process and consultants preparation for proposal submission.

3. Collect any comments from ACEC-BC members on contract terms and conditions, project implementation and BC Hydro procedures that impact on members delivering value for money on their consulting services provided to BC Hydro.
4. Providing feedback to BC Hydro on what works well and what does not for improvement in the future.

Currently the subcommittee is waiting for BC Hydro's First Nations policy as applied to RFP and RFSQ calls and submissions. BC Hydro has presented to the subcommittee on First Nations outlook and implementation. Discussions on this subject will be ongoing.

The subcommittee also receives updates to BC Hydro's organization chart in order to keep ACEC-BC members informed of changes to BC Hydro's upper management group.

Mining Subcommittee

This subcommittee seeks to identify issues of concern with mining industry groups and provide input on best practices, mining standards, and fair procurement practices for consulting engineers and legislative issues involving the mining industry.

This subcommittee was inactive for 2016-2017. Currently the subcommittee is seeking a new chair.

LNG and Pipelines

The Resource and Energy Committee seeks to promote the involvement of ACEC-BC members in the growing LNG and pipeline industry for oil and gas. Several mixers were held this past year, including one in March on the Trans Mountain Pipeline Expansion Project, and another in May with LNG Canada.

Planning is underway for a half-day Resource Conference with the underlying theme of *Getting Projects to "Yes" in BC*, to be held in the fall of 2017.

While there is no formal LNG subcommittee, the Resource & Energy committee looks to feedback and input from members on topics or items that the committee should look into. The committee also plans further mixers and meetings on the LNG and pipeline industry.

Committee Members

Terry Wong, P.Eng. (Chair / Chair, BCH Procurement Subcommittee)

Lara Reggin, P.Eng. (Chair, Mining Focus Subcommittee)

Robert Adams, P.Eng.	Greg McNeill, P.Eng.
Bruno Bagnères, P.Eng.	Chris Mealing, P.Eng.
C Cee Chan, P.Eng.	Ryan Mills, P.Eng.
Dani Delaloye, P.Eng. (YPG)	Nadine Ross, P.Eng.
John Delver, P.Eng.	David Rupay, P.Eng.
Catherine Fritter, P.Eng.	Shawn Smith, P.Eng.
Scott Fulton, P.Eng.	Adam Solheim, P.Eng.
Maureen Kelly, P.Eng.	Pat Stancombe, P.Eng.
Patrick Korner, P.Eng.	Paul Wilson, P.Eng.
Peter Leekha, P.Eng.	

BC Hydro Members of the BC Hydro Steering Committee:

Laura Erven, P.Eng.	Warren Szkolnicki
Kirsten Peck, P.Eng.	Ken Talbot, P.Eng.

Business Practice Committee



Annual Report submitted by
Mike Dickens, P.Eng.
Chair, Business Practice Committee

The purpose of the Business Practice Committee is to:

- ❖ Monitor emerging issues that affect the business interests of member firms;
- ❖ Prepare position statements and informative documents focused on improving business interests of member firms; and
- ❖ Work with key client groups to improve business relationships.

The key accomplishments of the committee for the past year include:

- ❖ ACEC-BC *Engineering Fee Guidelines* review and update;
- ❖ *Budgeting Engineering Services Guidelines for Infrastructure and Transportation* document update;
- ❖ *Engineers as Prime Contractor Under Workers Compensation Act* position/awareness paper; and
- ❖ Standard *Short Form Consultant-Subconsultant Services Agreement*.

Ongoing committee initiatives include:

- ❖ Annually update the ACEC-BC Engineering Fee Guidelines;
- ❖ Develop position papers on:
 - Intellectual Property for P3 projects;
 - Sharing of CADD Files (to Owners, Architects, Subconsultants);
 - Engineering Fees Associated with P3 Projects; and
 - Process for selecting a consultant, nature of procurement and how to shortlist a consultant.
- ❖ Update *Budgeting Engineering Services Guidelines for Buildings* document with Building Engineering Committee;
- ❖ Initiate dialogue with INAC on procurement procedures; and
- ❖ Maintain liaison with MMCD, APEGBC Consulting Practice Committee and YPG.

Business Practice Committee Members

Mike Dickens, P.Eng. (Chair)	Randy Hillaby, P.Eng.
Jeremiah Boucher, P.Eng.	Graeme McAllister, P.Eng.
Kelvin Carey, P.Eng.	Kip Skabar, P.Eng.
Brian Chatwin, P.Eng.	Matthew Walton-Knight, P.Eng.
Steve Croxford, P.Eng.	Jessica Wilson, EIT (YPG)

Membership Affairs Committee



Annual Report submitted by
Jeff McLellan
 Chair, Membership Affairs Committee

The primary purpose of the Membership Affairs Committee is to help attract new members, retain existing members, and engage member firms in the various association activities. Committee members meet with ACEC-BC staff approximately six times per year to discuss outreach to eligible firms that are not current corporate members and outreach to current member

firms to gauge satisfaction with the association and to develop ideas for improved engagement.

The committee also provides feedback to the association regarding new member applications, identifies and assesses candidates for Associate Membership, and considers improvements and new opportunities for the Member Savings Program.

For the 2016-2017 year, ACEC-BC welcomes the following new Corporate Members:

- ❖ CDM Smith Canada
- ❖ Frykberg Innovations Inc.
- ❖ McMillen Jacobs Associates Ltd.
- ❖ Real Gas Solutions Inc.

For the 2016-2017 year, ACEC-BC welcomes the following new Associate Members:

- ❖ The Langley Concrete Group
- ❖ SLS Lighting

Ongoing committee initiatives include:

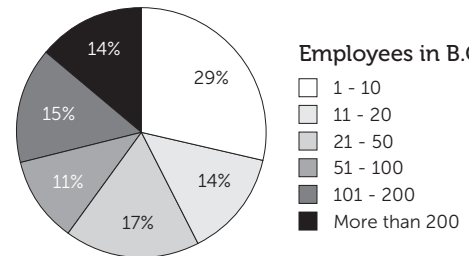
- ❖ Discussions about ACEC-BC events and communications making suggestions about different ways of doing things.
- ❖ Making personal contact with consulting engineering firms that are not currently ACEC-BC members. Discuss with these firms what the association can offer and also ask what the association can do to help engage them.
- ❖ Continuing to identify organizations that are well suited to ACEC-BC Associate Membership and open communication channels to gauge their interest in joining.
- ❖ The committee has been working on several different ideas that will help us further enhance the Member Savings Program in the coming year. As we move forward this will include outreach to other provincial associations to see about partnering opportunities.
- ❖ Carrying out a Mini-Travel Survey in order to better understand the needs of members and maximize the benefits and savings available.
- ❖ Looking to grow the Membership Affairs Committee by adding two more engaged individuals by September 2017. If you or someone in your firm is interested please contact ACEC-BC.

Committee Members

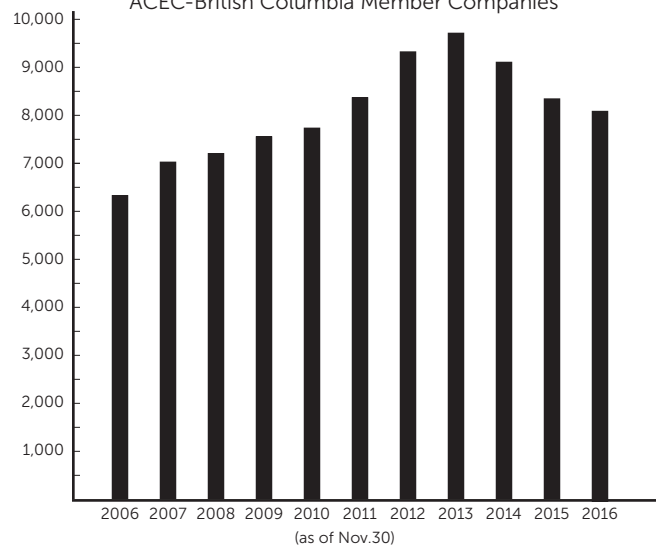
Jeff McLellan (Chair)
 Kevin Leggett, P.Eng. (YPG)
 Monika Minar

Reza Saiedi, P.Eng.
 Marc Winer, P.Eng.

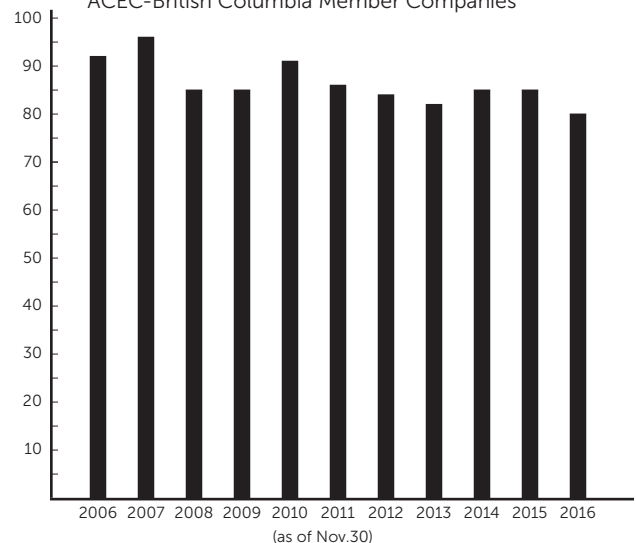
Profile (percentage of firms) by Total B.C. Employment
 ACEC-British Columbia Member Companies



Total B.C. Employment
 ACEC-British Columbia Member Companies



Total Number of Corporate Members
 ACEC-British Columbia Member Companies



Professional Development Committee



Annual Report submitted by
Scott Campbell, P.Eng., Chair
Professional Development Committee

The Professional Development Committee exists to promote the ongoing professional development of staff of ACEC-BC member firms.

The functions of the Committee include:

1. Develop a professional development program including a professional development framework for ACEC-BC Member Firms coordinated with what is provided at the Young Professionals level.
2. Support in-house PD programs.
3. Liaise with APEGBC CPD Committee.

ACEC-BC delivered a successful program of Professional Development events this past year, including:

- ❖ How to stay in the game: proposal writing for government
- ❖ Infrastructure Opportunities in Australia
- ❖ Leadership – Panel Discussion
- ❖ Economic Forecast – Market trends driving tomorrow's business
- ❖ Financial Literacy for Technical Team Leaders
- ❖ The Institutional Buyer – Cracking their Cognitive Code and Winning the Big Projects
- ❖ Business Development for Engineers
- ❖ Effective Management

The Committee have already got a start on planning session topics for the 2017/18 season, including:

- ❖ P3 Projects – Panel Discussion
- ❖ Aboriginal Engagement
- ❖ Conflict Resolution and HR Policies
- ❖ Integrity Management
- ❖ Climate Change
- ❖ Quality Management

We always welcome member feedback on meeting topics, format and venues to help develop a program of events that connect with members' needs. Please reach out to any of the Committee members with potential topics or suggestions of how to better serve members' professional development needs.

For 2017/18, the Professional Development Committee will be exploring opportunities to deliver sessions outside the Lower Mainland, and closer coordination with the other ACEC-BC Committees. As always, we welcome interested volunteers to join the Committee and contribute their energy and experience – if you would like to be part of guiding ACEC-BC's Professional Development program and activities, please contact ACEC-BC or any of Committee members.

Committee Members

Scott Campbell, P.Eng. (Chair)
Dieter Diedericks, P.Eng.
Selina Fong, P.Eng.

Tijana Smiljanic, P.Eng.
Daniel Tillie, P.Eng. (YPG)

Human Resources Committee



Annual Report submitted by
Cindy Shaw
Chair, Human Resources Committee

We are pleased to announce the formation of the ACEC- BC Human Resources Committee in the latter part of 2016. The committee has representation from approximately 20 engineering firms within BC and growing, and we held our first meeting September 27, 2016. The Human Resources Committee provides a forum for the exchange of information

about issues involving employees in the consulting engineering sector. The Committee's work addresses current and emerging issues, including:

- ❖ Development of innovative solutions to dealing with anticipated skill shortages facing ACEC-BC members
- ❖ Assessment of Labor Market information relative to member issues and emerging trends
- ❖ Working with the Young Professionals Group (YPG)

Highlights from the first half of 2017 include:

- ❖ Creation of a central resource list for government program grants aimed towards hiring initiatives for employers
- ❖ Development of an upcoming half day information session which includes representatives from BC Government, Asia Pacific Gateway Skills Table and APEGBC to discuss and explore potential labor shortage issues solutions.
- ❖ Discussion of available LMI resources, such as the WCBC Consulting Engineers Compensation Survey, and the APGST Engineers, Geoscientists, Technicians and Technologists LMI Project.
- ❖ Providing general HR Lunch & Learn sessions for Small Firm Council members on basic HR topics such as recruitment, retention, and employee relations.

The committee looks forward to continuing our focus on the labor market conditions and anticipated shortages within BC as well as expanding into other ways to serve the membership as we continue to establish our forum.

Committee Members

Cindy Shaw (Chair)
Sharon Batchelor
Elaine Chong
Arthur Docherty
Suki Gill, EIT (YPG)
Tyla Hay
Lee Hollinshead
Polina Kouzmina

Shiva Lotfi
David Poon
Karen Savage, P.Eng., FEC
Tim Stanley, P.Eng.
Onna Tatum
Parinaaz Udawadia
Julian Vasquez, P.Eng.
Ken Wiecke, P.Eng.

Young Professionals Group



Annual Report submitted by
Zahra Pirani, P.Eng.
Chair, YPG Provincial Steering Committee

Mission Statement

"To promote and empower the development of Young Professionals' careers in the Consulting Engineering Business"

The ACEC-BC Young Professionals' Group (YPG) Steering Committee comprises 26 of British Columbia's brightest young professionals, organized into an overarching Provincial Committee, four Regional Subcommittees (based out of the Lower Mainland, Vancouver Island, Okanagan, and Prince George), a Conference Planning Subcommittee, and representatives on each of ACEC-BC's Mainline Committees. The Prince George Regional Subcommittee and the Conference Planning Subcommittee were new additions this year.

With support from ACEC-BC staff, the YPG Steering Committee enthusiastically planned, delivered, and supported a number of programs and services that strengthened ACEC-BC connections with hundreds of young professionals, students (both post-secondary and elementary-age), and members of the public. These events were summarized and showcased in quarterly newsletters published by the YPG and included the following events:

The First Annual YPG Conference

Held on May 11 and 12, 2017, the YPG Conference included one full day of speaker sessions, preceded by an after work business strategy 'war game' workshop where delegates were grouped together to think critically, solve problems, and network. The conference was a great success. The event was sold out in both registration and sponsorships. Attendees and speakers provided positive feedback, and the financial result was a net profit for the association.

Breakfast Seminars

- ❖ The Accidental Engineer, Tim Stanley (Lower Mainland)
- ❖ Why a Public-Private Partnership Partnerships BC (Lower Mainland)
- ❖ The Importance of Mentorship APEGBC (Lower Mainland)
- ❖ Design Consultants and Professional Liability Cameron Elder (Lower Mainland)
- ❖ Safety by Design BC Hydro (Lower Mainland)
- ❖ Sustainable Design Considerations for Everyday Engineering Practice, Lindsey Tourand (Lower Mainland)
- ❖ What is the No in your Go/No-Go Jeff McLellan (Lower Mainland & Vancouver Island)
- ❖ Public Affairs Mike Cunningham (Vancouver Island)

- ❖ Minor Issues, Major Outcomes: Common Pitfalls with Proposals, Contracts, and Contract Execution Michael Hobson (Okanagan)
- ❖ Hillside Development and Green Infrastructure Matt Cameron (Okanagan)
- ❖ What I learned in my career in consulting engineering so far Ken Wiecke (Okanagan)

Networking Events

- ❖ IEEE Social Mixer (Lower Mainland)
- ❖ Lions Game Social (Lower Mainland)
- ❖ Trivia Night (Lower Mainland)
- ❖ Mortgage Presentation & Dinner (Lower Mainland)
- ❖ Curling Night, the 4th Annual Showdown! (Lower Mainland)
- ❖ YPG and PIBC YP Networking Mixer (Lower Mainland)
- ❖ YPG and CBA BC Young Lawyers Group: Whiskey Tasting Mixer (Lower Mainland)
- ❖ Pub Night (Vancouver Island)
- ❖ Brewery Tours Event with VICA U40 (Vancouver Island)
- ❖ Kettle Valley Railway Bike Tour (Okanagan)
- ❖ Big White Ski Trip (Okanagan)
- ❖ YPG Kickoff Networking Social (Prince George)

Participation in Student Outreach Events

- ❖ **BCIT**: Panel & Pub Industry Connection event; CSCE Professional Night; and Industry-Student Pub Night
- ❖ **UBC**: Engineering Co-op Junior Reception; Engineering Career Fair; and APEGBC Industry Night
- ❖ **UBCO**: Engineering Co-op Junior Reception; and APEGBC Industry Night
- ❖ **APEGBC** Networking Event
- ❖ **University of Victoria** Industry Night
- ❖ Active participation and recruitment for the **UBC** Tri-Mentoring Program

Participation in Community Events

- ❖ **EG-Fest 2017** (for Engineering and Geoscience Month)
- ❖ **Science World** Summer Camp
- ❖ **WWEST** Creating Connections Conference

As previously noted, the YPG Steering Committee continues to ambitiously develop and grow. Short and long term planning is therefore vital to the success of this Committee. There are a number of internal initiatives in place in order to stay organized, focused, and motivated, which include:

Short-Term Planning

SMART (specific, measurable, attainable, relevant and timely) goals were established by each committee member at the beginning of the year; these goals were then revisited and revised throughout the year to ensure all initiatives and events were bringing value to ACEC-BC's member firms and the members of the YPG Steering Committee.

Long-Term Planning

The second 3-Year-Plan (2017-2020) was developed this year, in order to provide ideas and guidance for future YPG Committee members. There are 10 initiatives in the 3-Year-Plan, examples of which include expanding on the Annual YP Conference, continuing to expand to smaller communities of BC, continuing to expand on networking events with external groups, and increasing awareness and support for equality in gender and diversity in engineering.

Continued growth and development

In an effort to ensure YPG Steering Committee members were aligned and aware of ACEC-BC initiatives, a concerted effort was made to share and discuss ACEC-BC topics of interest such as the looming skills shortage, QBS, and ACEC-BC's involvement in the APEGBC Advisory Taskforce on Corporate Practice). In addition, a YPG Steering Committee and ACEC-BC Board of Directors Mixer event was held in the Fall.

The ACEC-BC YPG Steering Committee members should be incredibly proud of what has been accomplished this year. This is a team of highly motivated, organized, and energetic young professionals, who are tirelessly dedicated to promoting and empowering the development of themselves and other young professionals in the consulting engineering business. It is important to note also that the continued support of the ACEC-BC office, particularly Lia Spidlen, is vital to the success of the YPG.

2016-2017 YPG Provincial Steering Committee

Chair: Zahra Pirani, P.Eng.
Vice-Chair: Joey Chiu, EIT
Past Chair: Siobhan Robinson, P.Eng.
Communications: Gabriene Kaechele, P.Eng.
PD/Education: Dani Delaloye, P.Eng.
Conference Chair: David Ellis, P.Eng.
Lower Mainland Chair: David Marchand, P.Eng.
Vancouver Island Chair: Caroline Silins, EIT
Okanagan Co-Chair: Yolanda Moser, EIT
Okanagan Co-Chair: Jason Foster, P.Eng.
Prince George Chair: Robert Teetaert, ASCT
ACEC YPN Representative: Siobhan Robinson, P.Eng.

2016-2017 YPG Committee Representatives

ACEC-Canada YPN Tijana Smiljanic, P.Eng.
Municipal Engineering Zahra Pirani, P.Eng.
Metro Vancouver Liaison Cheryl Gomes, EIT
Business Practice Jessica Wilson, EIT
Transportation David Ellis, P.Eng.
Building Engineering Graham Lovely, P.Eng.
Resource and Energy Dani Delaloye, P.Eng.
Membership Affairs Kevin Leggett, P.Eng.
Professional Development Daniel Tillie, P.Eng.
Human Resource Suki Gill, EIT
Small Firm Council Jeff Vanden Eerenbeemt, P.Eng.

Small Firm Council



Annual Report submitted by
David Collings, P.Eng.
Chair, Small Firm Council

The Small Firm Council has completed its second year and continues to investigate issues that impact smaller engineering practices. The intent is to provide a forum for our members to meet and discuss our challenges, as well as receive advice on matters raised by the group.

The Council continues to meet quarterly and over the past year we have received many valuable presentations. These included a digital marketing workshop; a presentation and discussion on BIM (Building Information Modeling); a presentation on onerous contract language; a workshop on preparing an effective awards submission; and finally a presentation from the Asia Pacific Gateway Skills Table on the labour market.

A highlight was an inaugural Winter Social networking event in January. We hosted approximately 25 representatives from small firms and their clients at a pub downtown Vancouver.

Next year we will continue to identify new topics to explore and discuss. Our next session in June will focus on human resources and recruitment.

If you identify yourself as a small firm, we look forward to you joining our Council.

Members of the Small Firm Council

David Collings, P.Eng. (Chair)	Jeff McLellan
Mark Anderson, P.Eng., Struct.Eng.	Hana Prilesky, P.Eng.
Brian Chatwin, P.Eng.	Jerry Prilesky, CTech
Colin Commandeur, P.Eng.	Karen Savage, P.Eng.
Jeremy Cooke, P.Eng.	Morris Signorelli
Jeff Vanden Eerenbeemt, P.Eng. (YPG)	Tim Stanley, P.Eng.
Daniel Fung, P.Eng.	Julian Vasquez, P.Eng.
Houman Ghalibafian, P.Eng.	

ACEC 2016 Year in Review



ACEC President

John Gamble

STRENGTHENING OUR INDUSTRY

You have a voice and are heard on business and legislative issues impacting consulting engineering. As a member of ACEC, your firm belongs to the only national association that represents and advocates for the unique and complex interests of Canadian consulting engineering companies. Here are some highlights from 2016 activities.

Advocating for our Members and for all Canadians

The federal government has committed over \$180 billion to infrastructure investment over the next 12 years in response to ongoing advocacy by ACEC and its stakeholder partners. ACEC issued a comprehensive report on how the budget impacted consulting engineers and their clients within hours of the budget's public release. In a follow-up submission to the Standing Committee on Finance in August 2016, ACEC proposed specific recommendations on how to invest effectively in infrastructure. ACEC recommendations include:

- ❖ Prioritize investments that enable economic prosperity
- ❖ Commit to timely and realistic schedules and deadlines
- ❖ Use procurement best practices (QBS) for quality, innovation and long-term life-cycle savings
- ❖ Adopt Asset Management to identify needs and measure effectiveness
- ❖ Harmonize federal and provincial approvals to reduce red tape and provide clarity
- ❖ Re-invest revenue to ensure continuing sustainable investment
- ❖ Reinstate the National Guide to Sustainable Municipal Infrastructure

ACEC continues to advise Members of Parliament sitting on the Standing Committee for Transport, Infrastructure and Communities, as well as senior bureaucrats and advisors to the Ministers of Infrastructure and Communities.

In September, ACEC President and CEO joined the Honourable Amarjeet Sohi, Minister of Infrastructure and Communities, for a face to face discussion on the Federal Government's infrastructure investment plan, the importance of infrastructure investment, and the role that consulting engineers will play in its implementation. ACEC's Parliament Hill Day on October 25th provided the opportunity for over 30 representatives from ACEC member firms to deliver the same message when meeting face-to-face with Members of Parliament. The same day, a delegation led by newly elected ACEC Chair Rick Tiller had a brief meeting with Prime Minister Justin Trudeau. ACEC members interested in advocacy on behalf of the consulting engineering sector are invited to join ACEC's Parliamentary Partners program and meet their Members of Parliament in their own communities.

In addition to these advocacy efforts on infrastructure, meetings took place with MPs and key government officials on the Temporary Foreign Workers Program, sustainable buildings, supporting Canada's resource sector, and public procurement.

Advocating for a Strong Business Climate for Consulting Engineers

Procurement and Qualifications-Based Selection

Promoting fair and equitable business practices is a priority for ACEC, which includes advocating for the adoption of Qualifications-Based Selection (QBS) by making presentations to owner groups and procurement officials, including a keynote address to the Canadian Public Procurement Council. This includes discussions with major federal departments including Public Services and Procurement Canada Minister, The Honourable Judy Foote, who spoke at the ACEC National Leadership conference. This led to a formal presentation from ACEC to the Deputy Minister. ACEC also made a case to Innovation Minister Navdeep Bains that the adoption of QBS was an effective way for the federal government to leverage its infrastructure investments and the development and upkeep of its own assets to encourage innovation.

ACEC endorsed a position paper from ACEC-British Columbia expressing significant concerns with the use of reverse auctions by some clients, and used the opportunity to educate these clients on the advantages of using QBS for the selection of consulting engineering firms.

The Board formally adopted a position that supports the right of each consulting engineering firm practicing in a free market to independently establish billing rates and fees in order to successfully execute the project; to earn a reasonable return on investment; to earn a reasonable return on risk; and to be fairly and reasonably remunerated for the value provided to the client. This was in response to the clients that prescribe maximum billing rates that can be charged by consulting engineering firms. In some cases, clients even attempt to "regulate" the payroll multipliers used by consultants.

Fair and Balanced Contracts

ACEC is a founding member of an industry liaison committee along with Architecture Canada, the Canadian Construction Association and Interior Designers of Canada to address concerns with federal real property projects administered by Brookfield Global Integrated Solutions (BGIS) on behalf of the federal government. BGIS has stated its intention to adopt ACEC standard forms of agreement for standing offers for federal projects in 2017. ACEC has been promised an opportunity to review any supplementary general conditions proposed by BGIS.

At ACEC's request, the Canadian Construction Documents Committee is currently reviewing ACEC standard forms of agreement and is expected to endorse and adopt them as CCDC documents.

ACEC delivered submissions to the House of Commons Steering Committee on Human Resources and Skills Development with recommendations to improve Temporary Foreign Worker Program (TFWP) that would reduce red tape and delays for members that utilize the TFWP.

Advocating for Responsible Resource Development

ACEC continues to partner with private sector partners in support of the need for responsible resource development and the establishment of resource infrastructure to allow both access to resource and access to markets. The ACEC Board of Directors adopted a public policy position in support of the development of a network of transportation-utility corridors. John Gamble wrote an article based on the policy position that was published in iPolitics, a widely read web-based news service that follows federal politics. It was noted by other stakeholders including CAPP and the Canadian Chamber of Commerce who in turn distributed it to its membership.

ACEC-British Columbia Events

Since the 2016 Annual General Meeting ACEC-British Columbia has held a total of 52 events (not including smaller social events) –

June 21	Small Firm Council – Lunch & Learn <i>Working with BIM</i>
September 16	8th Annual Okanagan Golf Tournament
September 20	Small Firm Council – Lunch & Learn <i>Onerous Clauses and Contract Language</i>
September 22	Regional Transportation Management Centre Mixer
September 30	Vancouver YPG Breakfast Seminar <i>The Accidental Engineer</i>
October 5	Proposal Writing for Government
October 6	Okanagan Mixer
October 11	Richmond/Delta Mixer
October 12	TransLink Policy Breakfast
October 14	Australia: Opportunities in Infrastructure
October 18	Burnaby/New Westminster Mixer
October 19	Proposal Writing for Government (Victoria)
October 24	Port of Vancouver Mixer
November 4	Vancouver YPG Breakfast Seminar <i>What is the No in Your Go/No-Go?</i>
November 9	Leadership Panel
November 22	Small Firm Council – Lunch & Learn <i>Successfully Enter the ACEC-BC Awards Competition</i>
November 24	City of Vancouver Mixer
December 1	Kelowna YPG Breakfast Seminar <i>Common Pitfalls with Proposals, Contracts and Contract Execution</i>
December 2	Victoria YPG Breakfast Seminar <i>What is the No in Your Go/No-Go?</i>
December 8	Economic Forecast – The Road Ahead
December 14	Financial Literacy for Technical Team Leaders
December 16	Vancouver YPG Breakfast <i>Why a Public-Private Partnership?</i>
January 20	YPG Webinar – Upcoming Volunteer Opportunities
January 24	ACEC-BC YPG Volunteer Appreciation Night
January 26	2017 Transportation Conference <i>The Changing Face of Transportation</i>
February 3	Vancouver YPG Breakfast Seminar <i>The Importance of Mentorship</i>
February 16	The Institutional Buyer – Cracking their Cognitive Code and Winning the Big Projects (Co-presented with CSMPS)
February 17	Clean Energy Opportunities in BC – Looking Forward
February 21	Vancouver YPG Dinner Presentation by EMC Mortgages
February 21	North Shore Mixer
February 22	Kelowna YPG Breakfast Seminar <i>Hillside Development and Green Infrastructure</i>
February 27	ACEC-BC Spring Reception (Victoria)
February 28	Small Firm Council – Lunch & Learn <i>Asia Pacific Gateway Labour Market Information Report</i>
March 2	BC Hydro Breakfast Seminar <i>Safety by Design and Expectation for Consultants</i>
March 3	Victoria YPG Breakfast Seminar <i>Government Relations, Advocacy and Communications</i>
March 8	Business Development for Engineers 1.0
March 9	Tri-Cities Mixer
March 15	Trans Mountain Expansion Project – Breakfast Seminar

March 17	Kelowna YPG Breakfast Seminar <i>What I learned in my consulting engineering career, so far</i>
March 20	TransLink Mixer
April 6	Growing Effective Managers
April 7	Vancouver YPG Breakfast Seminar <i>Design Consultants and Professional Liability – Why You Might Be Sued</i>
April 8	2017 Awards for Engineering Excellence
April 18	BC Hydro Mixer
April 20	Langley/White Rock Mixer
May 3	Metro Vancouver Mixer
May 10	ACEC-BC Lower Mainland Golf Tournament
May 11-12	ACEC-BC Young Professionals Conference
May 16	Culture Drives an Organization Through HR
May 17	City of Surrey Mixer
May 25	Vancouver YPG Breakfast Seminar <i>What is Safety by Design?</i>
May 26	LNG Canada Policy Breakfast

Awards Road Show

Member firms compete annually in ACEC-British Columbia's Awards for Engineering Excellence program by submitting projects in the categories of

- ❖ Buildings
- ❖ Municipal & Civil Infrastructure
- ❖ Transportation & Bridges
- ❖ Energy & Industry
- ❖ Natural Resource & Habitat
- ❖ Soft Engineering

The Awards Road Show is a travelling public exhibit of display panels depicting these world class consulting engineering projects. The exhibit serves to inform, educate and inspire its audience while raising the profile of ACEC-BC members.

During the past year, the ACEC-British Columbia Awards Road Show has been on display at the following venues:

August 4 – 22	Coquitlam City Hall
August 31 – September 14	Surrey City Hall
September 19 – October 5	Burnaby City Hall
October 5 – 14	Science World
December 15 – January 5	UBC Engineering Fred Kaiser Building
January 6 – 24	Richmond City Hall
January 26	Transportation Conference 2017
January 30 – February 15	District of North Vancouver
February 20 – March 7	Guildford Town Centre
March 20 – April 4	BCIT Burnaby Campus
April 8	The Westin Bayshore

Transportation Conference

The Changing Face of Transportation

Transportation Conference 2017

ACEC-British Columbia worked with the Ministry of Transportation and Infrastructure, and TransLink to develop **The Changing Face of Transportation**, a one day conference showcasing current and future technological trends in British Columbia's transportation industry, with a focus on green technologies and managing change. Held January 26th, 2017 at the Hyatt Regency, Vancouver, the conference provided a number of sessions of interest to consultants, TransLink and Ministry staff, including:

- ❖ choice of morning guided tours: 1) YVR Airside tour, 2) BCIT Aerospace Campus, or 3) Powerex Energy Trading Floor.
- ❖ luncheon presentations including:
 - Vancouver Airport – Planning for growth and change; *Don Ehrenholz, VP Engineering & Environment, YVRAA*
 - The 10-Year Vision for Metro Vancouver Transportation; *Kevin Desmond, CEO, TransLink*
 - Mobility Pricing – options and case studies; *Steve Morello, Senior Partner, D'Artagnan Consulting*
- ❖ afternoon sessions in two streams – *Green Technologies*, and *Managing Change*.
- ❖ reception and Deputy Minister's Awards Dinner, attended by Hon. Todd Stone, BC Minister of Transportation & Infrastructure.

17th Annual Golf Tournament

The Golf Tournament is one of the ACEC-British Columbia's most anticipated annual events, creating a fun and relaxed environment for members to network with their clients and industry colleagues. The tournament welcomed 144 participants at the Northview Golf & Country Club in Surrey, on May 10th, 2017. A portion of the tournament proceeds are donated to Make-A-Wish® Foundation of British Columbia and Yukon.



8th Annual Okanagan Golf Tournament

ACEC-British Columbia held the eighth Okanagan Golf Tournament at Harvest Golf Club on September 16th, 2016. 57 players participated in the tournament.

Event Sponsors

None of our many events would be possible without the continued support and encouragement from our many sponsors, for which we are most grateful. In particular, we would like to thank:

- AECOM Canada Limited
- AMR Consulting
- Aplin Martin
- Associated Engineering (B.C.) Ltd.
- Applied Science Technicians & Technologists of BC
- Armtec
- B & B Contracting Group
- BA Blacktop
- Bay Wealth Management / Investors Group
- BCIT School of Transportation
- BC Road Builders & Heavy Construction Association
- BFL CANADA Insurance Services
- Binnie Consulting
- Bunt & Associates Engineering Ltd.
- Canada Culvert
- Canadian Home Builders' Association – Central Okanagan
- CanCADD Imaging Solutions
- Cansel
- CH2M HILL Canada Limited
- Cobra Electric (South Coast) Ltd.
- Corporate Traveller
- COWI North America
- Dentons Canada LLP
- DMD & Associates
- Dragados
- DSI Dywidag-Systems International
- Edelman
- EMC Mortgages
- ENCON Group
- Great Northern Engineering Consultants
- Hatch
- IBI Group
- ISL Engineering and Land Services
- Jardine Lloyd Thompson Canada
- Jensen Hughes Consulting Canada Ltd.
- Kerr Wood Leidal Associates
- Kison Inc.
- Klohn Crippen Berger
- Mainroad Group
- Marsh Canada
- McElhanney Consulting Services Ltd.
- Metrix Professional Insurance Brokers / XL Caitlin Insurance
- Morrison Hershfield Limited
- Mott MacDonald Canada
- Nillex
- Northwest Hydraulic Consultants
- Norton Rose Fulbright Canada LLP
- Park Insurance
- PBX Engineering
- Port of Vancouver
- Personal Strengths Canada
- Retro Specialty Contractors
- Singleton Urquhart
- SNC-Lavalin
- Southern Interior Construction Association
- Stantec
- Stuart Olson
- Surety Association of Canada
- Tetra Tech
- Thurber Engineering
- The Association of Professional Engineers and Geoscientists of BC
- The Langley Concrete Group
- Twining, Short & Haakonson
- Urban Development Institute – Okanagan Chapter
- Urban Systems
- West Coast Road Testing & Consulting
- Winvan Paving
- WSP Canada

Awards for Engineering Excellence

Since its inception 27 years ago, the Awards for Engineering Excellence Gala has not only become a "must attend" event for ACEC-British Columbia members and their clients, but it is also one that draws accolades from their spouses. This year some 450 guests joined us in celebrating the engineering achievements of ACEC-BC members. The 34 submissions in the awards competition were on display at the gala, launching the 2017 Road Show that tours venues around the province throughout the year.

Awards of Excellence

- ❖ **Lord Strathcona Elementary School Heritage Classroom Building – Base Isolation Seismic Upgrade**
Ausenco Engineering Canada Inc.
- ❖ **Preserving Historic Victoria Cemetery through Trenchless Rehabilitation**
AECOM Canada Ltd.
- ❖ **Port Mann Main Water Supply Tunnel**
Ausenco Engineering Canada Inc.
- ❖ **Atal Setu (Basohli Bridge)**
McElhanney Consulting Services Ltd.
- ❖ **Jimmie Creek Hydroelectric Project**
SNC-Lavalin
- ❖ **BC Hydro Rock Bay Remediation Project**
SNC-Lavalin
- ❖ **Millennium Line Evergreen Extension Operational Readiness Program**
CH2M HILL Canada Limited

Awards of Merit

- ❖ **Okanagan College - Trades Renewal and Expansion**
AES Engineering
- ❖ **Hamilton Transit Centre**
WSP Canada Inc.
- ❖ **South Fork Water Treatment Plant**
Associated Engineering (B.C.) Ltd.
- ❖ **Miami River Pump Station**
CTQ Consultants Ltd.
- ❖ **Abraham Lincoln Bridge**
COWI North America
- ❖ **Evergreen Line Rapid Transit Project**
SNC-Lavalin with WSP Canada Inc., McMillen Jacobs Associates, and Tetra Tech EBA
- ❖ **Box Canyon Hydroelectric Project**
Knight Piésold Ltd.
- ❖ **Wildlife Detection System**
PBX Engineering Ltd.
- ❖ **Variable Speed Limit System**
PBX Engineering Ltd. and IBI Group

Lieutenant Governor's Award

The prestigious Lieutenant Governor's Award is selected as the best from among all of the Awards of Excellence. This year's winner is *Ausenco Engineering Canada Inc.* for the **Lord Strathcona Elementary School Heritage Classroom Building – Base Isolation Seismic Upgrade.**



The three heritage buildings of Lord Strathcona Elementary School were assessed to have a high seismic risk. A seismic upgrade was achieved using base isolation of the three storey load bearing brick and stone building. While below-grade isolation planes have been used in other parts of the world, what was unique in this project was the above-ground isolation plane - a solution never attempted in Canada previously. The structure above the isolation plane is totally separated from that below, connected only by 30 new isolators.

Ausenco, the structural/seismic engineering specialists:

1. carried out non-linear analyses and design of the base isolation system, and all related structural work;
2. provided guidance to other team members regarding details at the isolation plane to accommodate the predicted 250 millimetre lateral movement;
3. provided construction-related services to resolve the site challenges that arose; this building had no existing drawings;
4. directed the critical load transfer to the new isolators using flat jacks, a Canada-first; achieved with less than 3 millimetre vertical movement, avoiding damage to the brittle structure.

The 3D computer analyses were another Canada-first following new provisions for base isolated buildings. This involved analyses of 21 earthquake ground motion records related to the three different types of earthquakes possible in Vancouver. The upgrade achieves an "immediate occupancy" post-earthquake performance level as well as post-earthquake heritage conservation.

Meritorious Achievement Award



The ACEC-British Columbia Meritorious Achievement Award recognizes an individual consulting engineer for outstanding contributions to the engineering profession, our industry and the community.

The recipient of this prestigious award in 2017 is **Doug Hinton**, P.Eng., Executive Vice President of Hatch. Doug started his engineering career in 1977 in the mining industry, working for Cominco (now Teck Ltd.) on their new world-class Electrolytic and Melting Plant Project in Trail, B.C.

as a Construction Engineer and was quickly promoted to Construction Engineering Manager for this project. While in Trail, B.C., Doug found time to coach and manage the Rossland Junior Hockey Team for six years.

After moving to Vancouver to manage the design, construction, management, and eventual demolition of the Canadian Pacific Pavilion for Expo '86, Doug began expanding his experience into even larger projects, such as the SXEW Project (situated at 4500m above sea level in northern Chile) and the Red Dog Lead/Zinc Mine in Alaska (100km north of the Arctic Circle). Doug then joined BC Transit in 1995 as the Director of the Capital Improvement Program, where he was offered the chance to be the director of the expansion of the SkyTrain system through the addition of the Millennium Line.

In 2000, Doug joined Hatch (then Hatch Mott MacDonald) to manage the 24km light rail extension project in Sacramento, California. Upon completion, Doug returned to B.C. to lead and develop new business for Hatch's new Vancouver infrastructure office. Large infrastructure projects include Prime Consultant on the iconic Sea-to-Sky Highway Project and co-Prime Lead on the Port Mann/Highway 1 Improvement Project.

Promoting consulting engineering has been Doug's focus since first joining ACEC-BC (then CEBC). Doug joined the board, eventually serving as President in 2011-2012. Doug has also been involved with the BC Construction Roundtable (BCCR) for more than 15 years, and has worked with UBC Civil Engineering's Industry Advisory Council, contributing recommendations for the curriculum based on the current working environment. His work to promote consulting engineering to students and legislators, make constructive recommendations to improve engineering curriculum, and demonstrate what consulting engineers can achieve have benefited countless engineers in B.C.

Young Professional Award



The ACEC-British Columbia Young Professional Award recognizes an individual young professional who has demonstrated excellence in consulting business practices, outstanding achievements in their applicable fields, and leadership in the community.

This year's award recipient is **Zahra Pirani**, P.Eng., a Professional Engineer at CH2M HILL Canada Limited. Zahra completed her Civil Engineering Degree at the University of British Columbia in 2007. As an undergraduate, Zahra was involved in both the

UBC Institute of Transportation Engineers Student Chapter and the UBC Engineering Undergraduate Society. Following graduation, she worked as a Production Engineer (in-training) for Suncor Energy in Calgary, while volunteering for Engineers Without Borders (EWB) in various educational and outreach roles. In 2012, Zahra completed a Masters of Engineering degree at Dalhousie University to expand her professional horizons, and followed her desire to work as an Environmental Engineer at a consulting engineering firm, where the diversity and consistently new challenges resonated for her. Zahra has been employed by CH2M since 2016.

Throughout her career, Zahra has contributed to the professional community around her, through generous donation of her time and her talents. Since arriving in B.C., Zahra has become an active member in several key organizations, including ACEC-BC, the Science Advisory Board for Contaminated Sites in B.C. (SAB), the Vancouver Geotechnical Society, and the Society of Contaminated Sites Professionals. Her involvement with ACEC-BC includes her current role as the Provincial Chair of ACEC-BC's Young Professionals Group, and as an ex officio member of the ACEC-BC Board of Directors.

Client of the Year Award



The recipient of the 2017 ACEC-BC Client of the Year Award is the **City of Surrey**.

The City of Surrey's progressive and communicative approach to its relationship with the consulting engineering community has resulted in delivery of excellent transportation and community development projects with the help of their consultants for the last 40 years. The City actively engages with the consulting community at large through ACEC-BC mixer events, which gives an opportunity to share their upcoming projects and capital spending budget.

The City is very communicative with consultants, fostering excellent working relationships. The City fosters a collaborative environment by actively seeking feedback from the consulting industry, most recently their 2016 Engineering Design Criteria Manual Update and 2016 Engineering – Surrey Consultant Agreement, for which 25 engineering firms provided feedback. In addition, the City also held a group discussion with consultants on their RFP process, and incorporated the suggestions in their RFP process, demonstrating their commitment to improving the effectiveness of their processes and procedures.

For consultant procurement, the City employs a unique approach that begins with an open prequalification system; advance notice of upcoming capital projects, allowing consultants to plan ahead; issuing of Expressions of Interest to shortlisted consultants, and a robust consultant evaluation system. Furthermore, no more than three consultants are solicited for proposal call opportunities.

The City is very effective in delivering RFPs with clearly defined scope. In cases where there is a need to add more work to the scope, the City carries reasonable contingencies, and issues a request for an updated fee.

The City uses a very fair MMCD-based professional services agreement, and regularly refines this to incorporate feedback and suggestions from the consulting community. Risk is fairly allocated, with professional liability insurance requirements typically ranging from \$1 million to \$3 million.

The City of Surrey is exemplary with regard to client best-practices, and they are a worthy recipient of this year's Client of the Year Award.



Treasurer's Report



Annual Report submitted by
Jeannine Martin
 Vice-Chair/Treasurer
 ACEC-British Columbia

The Treasurer's Report summarizes the financial status of ACEC-British Columbia as of March 31, 2017, which is the fiscal year end of the organization. The report also provides a brief summary of the 2017-2018 fiscal year budget.

The ACEC-BC financial statements are independently audited by Wolrige Mahon LLP, Chartered Professional Accountants.

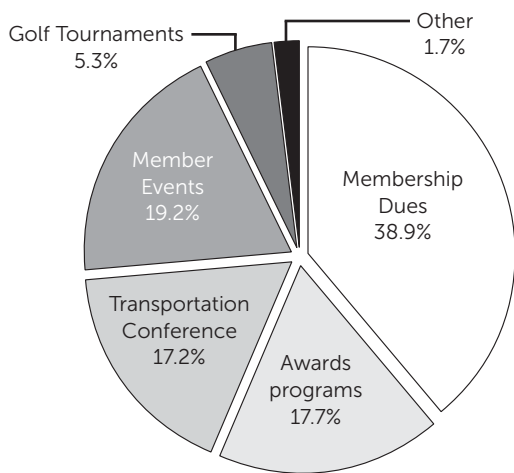
Actual and budgeted revenue and expenses for the 2016-2017 fiscal year are as follows:

Item	Actual	Budget	Variance
Revenue	\$1,044,827	\$1,031,000	\$13,827
Expenses	\$1,038,531	\$1,035,850	(\$2,681)
Net	\$6,296	(\$4,850)	\$11,146

The fiscal year started with some challenges, as the downturn in the resource sector continued to impact our members' total employment numbers. However, the board had anticipated this downturn, and revenues from membership dues were close to the budgeted amount. Our surplus from the 2016 Awards program was considerably less than anticipated, and this created a negative net position which we were digging out of through most of the year.

Having said that, with a watchful eye on expenditures and increasing focus on event revenue, we ended the year in a positive position. The Transportation Conference was a particular success with both higher attendance and more sponsorship than budgeted.

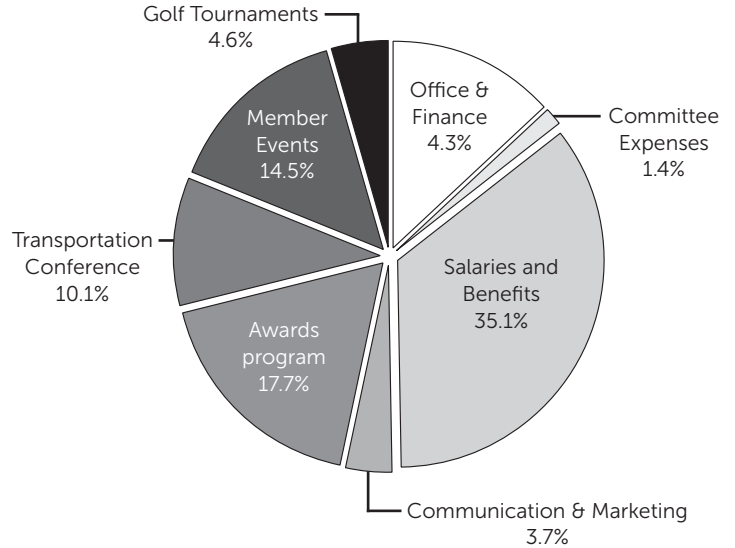
2016-2017 Revenue Sources



We continue to maintain our focus on preserving and growing the reserves. This approach provides flexibility to invest in industry initiatives, and allows us to manage industry cycles that normally occur.

We continue to work hard to encourage new corporate and associate members to join the organization, which will reflect increased revenues from membership dues and increased participation at ACEC-BC events. As can be seen in the accompanying charts, the decision made by the Board several years ago to diversify revenue streams is having a beneficial impact.

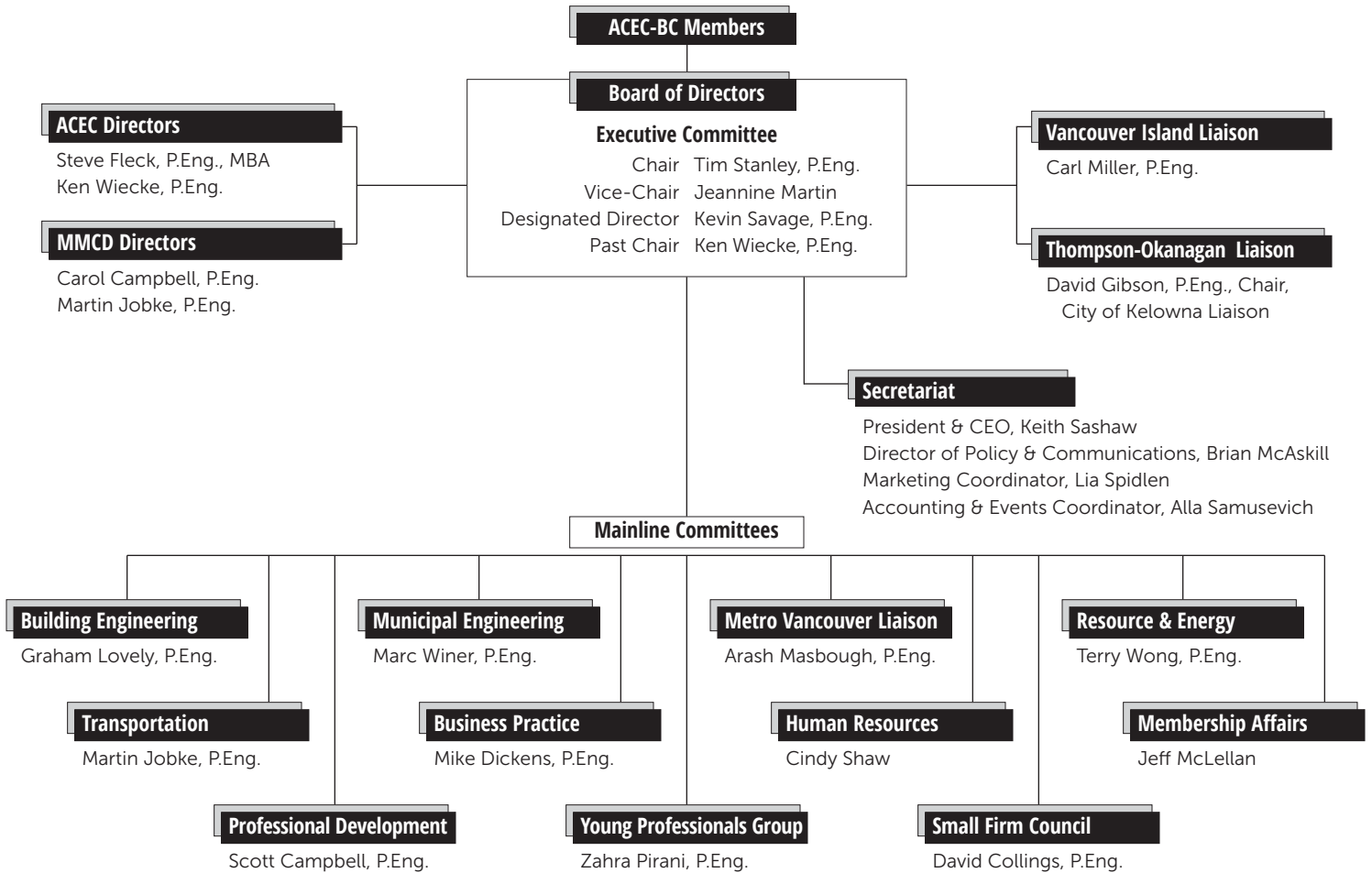
2016-2017 Expenditures



Our total "N" number for 2016-2017 was 8,346. This reflected a decrease of about 8.3% from the previous year. It is important to note that we have had success in attracting associate members to ACEC-BC since 2015 with 16 Associate members currently enrolled. The participation of this segment of membership has benefited ACEC-BC in many ways, through access to advice and increased revenues from dues, attendance at member events, and event sponsorships.

The 2017-2018 fiscal budget approved by the board anticipates a total revenue of \$1,047,700 and total expenses of \$1,044,950 which would result in a surplus of \$2,750 (not including amortization).

2016-2017 Organization Chart



The ACEC-British Columbia Board of Directors and Executive Committee maintain liaison with the following organizations:

Association of Consulting Engineering Companies - Canada
 Architectural Institute of BC
 Association of Professional Engineers & Geoscientists of BC
 Applied Science Technologists & Technicians of BC
 BC Construction Association
 BC Construction Roundtable
 BC Institute - Purchasing Managers Association of Canada
 BC Ministry of Finance

BC Road Builders and Heavy Construction Association
 Consulting Engineers of Alberta
 Government Finance Officers Association of BC
 Local Government Management Association of BC
 Master Municipal Contract Documents Association
 Members of the Legislative Assembly
 Members of Parliament
 Mining Association of BC

Quantity Surveyors Society of BC
 Pacific Northwest Economic Region
 Partnerships BC
 TransLink
 Union of BC Municipalities
 Urban Development Institute
 Vancouver Airport Authority

Association of Consulting Engineering Companies–British Columbia
 1258 - 409 Granville Street, Vancouver, BC V6C 1T2
 t: (604) 687-2811 e: info@acec-bc.ca
 f: (604) 688-7110 w: www.acec-bc.ca

Corporate Members

AC Eagle Enterprises Ltd.
AECOM Canada Ltd.
AES Engineering
Amec Foster Wheeler
J.E. Anderson & Associates
Aplin & Martin Consultants Ltd.
Associated Engineering (B.C.) Ltd.
Ausenco Engineering Canada Inc.
BBA Inc.
Binnie Consulting Ltd.
Black & Veatch
Brown and Caldwell
Brown Strachan Associates
Bunt & Associates Engineering (B.C.) Ltd.
Bush Bohlman & Partners
Roy Campbell Ltd.
CDM Smith Canada
CH2M HILL Canada Limited
Chatwin Engineering Ltd.
CIMA+
Citiwest Consulting Ltd.
Collings Johnston Inc.
COWI North America
CTQ Consultants Ltd.
CWMM Consulting Engineers Ltd.
DIALOG
Dillon Consulting Limited
DMD & Associates Electrical Consultants
exp Services Inc.
Fast + Epp Structural Engineers
FERM Consulting Inc.
Frykberg Innovations Inc.
GOAL Engineering Ltd.
Golder Associates Ltd.
Great Northern Engineering Consultants Inc.
Gygax Engineering Associates Ltd.
Hatch
Horizon Engineering Inc.
HXG Consulting Engineering Inc.
IBI Group
InterCAD Services Ltd.
ISL Engineering and Land Services
Jade West Engineering Co. Ltd.
Jensen Hughes Consulting Canada Ltd.
Kerr Wood Leidal Associates Ltd.
Klohn Crippen Berger Ltd.
Knight Piésold Ltd.
Koers & Associates Engineering Ltd.
Layton Consulting Ltd.
McElhanney Consulting Services Ltd.
McMillen Jacobs Associates
MCW Consultants Ltd.
Moffatt & Nichol
Morrison Hershfield Limited
Mott MacDonald Canada Ltd.
Northwest Hydraulic Consultants Ltd.
Opus International Consultants (Canada) Limited
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