



A P E G S

*Association of Professional Engineers  
& Geoscientists of Saskatchewan*

Regulating the Professions. Protecting the public.





**A P E G S**

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& Geoscientists of Saskatchewan*

**Front Cover:**

2019 APEGS award winners

Front row L to R: Ken Linnen, P.Eng., FEC; Deborah Rolfes, FEC (Hon.); Nathalie Baudais, P.Eng.;  
Lanre Akindipe, P.Eng.; Jay Magus, P.Eng.

Back row L to R: Nicholas Kaminski, P.Eng.; Nathan Bruce, Engineer-In-Training; APEGS President Terry Fonstad,  
P.Eng., FEC; Kevin Hudson, P.Eng, FEC; Esam Hussein, P.Eng.

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## President's Report

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It has truly been an honour for me to serve as the 2019-2020 APEGS President. I have learned immensely from my colleagues serving on APEGS Executive and Council as well as from APEGS staff and volunteers.

This year has been a busy year for APEGS. After 35 years, we have embarked on a governance review. This was not initiated due to anything APEGS is or is not doing, but partially a result of activities and reviews that occurred within a few other engineering regulatory bodies in Canada.

Reviews within these organizations revealed some discrepancy between activities and their objectives. APEGS Council decided a governance review would be timely, provide a chance to compare activities of the association with the Objectives in Section 5 of *The Engineering and Geoscience Professions Act* and allow a review of our policies and terms of references to ensure we are honouring our inclusivity policy.

Staff and volunteers also have worked extremely hard to provide seamless transfer of our engineer-In-training experience reporting system to the new Competency Based Assessment (CBA) system. As I understand from our new applicants and our volunteer accessors, the new CBA system is an improvement and a work saver.

We are now working to implement a similar system for our geoscientists-in-training application system. As we reported last year, the province opened an opportunity to foreign-trained engineers that resulted in a significant influx of applications that APEGS staff and volunteers continue to diligently work through.

The Sponsorship Task Group completed its work and APEGS is now in the process of establishing a new sponsorship funding policy in line with the Task Group's recommendations. The 30-by-30 Champion Group also reached the end of its transition mandate in December 2019. The transition mandate was the transfer of 30-by-30 activities to the appropriate committees. Industry partners and the universities are now taking leadership in this important initiative.

We continue to attend national events and Engineers Canada and Geoscientists Canada meetings to learn from our counterparts in other provinces and to contribute our insights. I understand the respect across Canada for APEGS as an engineering and geoscience regulator and that APEGS is often called upon to advise other regulators. This is a testament to our current and past staff and councils.

Our communications manager and volunteers rolled out a new tagline that started last year and is now seen regularly at events, in our communications and

on our website. The tagline "*Regulating the Professions. Protecting the Public*" reflects APEGS' fiduciary responsibility to the public to ensure that individuals practising the professions in Saskatchewan are competent, proficient and registered to practise, that they remain competent and proficient and that we foster how they practise the professions in a manner that is in the interest of protecting the public.

I would like to thank all the APEGS volunteers that donate so much of their time to help APEGS fulfill its mandate to the people of this great province.

Respectfully submitted,

Terry Fonstad, Ph.D, P.Eng, P.Ag, FEC  
President



## Executive Director and Registrar's Report

The past year was very active for APEGS. It saw the implementation of a continuing professional development program with required reporting and the implementation of an online competency-based work experience reporting system for engineers-in-training.

It also saw the commencement of a governance review project to assess APEGS' regulatory and advocacy activities, its board and committee structure that has been in place and evolved since the late 1980s, Council size and structure and its staff organization. That's in addition to its ongoing regulatory functions of registration, investigation and discipline and compliance as well as communications and outreach activities.

The number of professional engineers and professional geoscientists licensed to practise in Saskatchewan remained substantially similar in 2019. Although the number of applications from international engineering graduates was down from 2018, processing those applications continued throughout 2019. A table of membership statistics is included on page 5.

### Continuing Professional Development

Two of the statutory objects of *The Engineering and Geoscience Professions Act* relate to the proficiency and competency of its members and licensees in order to safeguard the public and to regulate the professions in the public interest. As a result, APEGS Council proposed bylaw amendments which were approved at the 2018 APEGS annual meeting to implement a required continuing professional development program.

Members were required to report on their 2019 professional development activities in accordance with the program approved by Council by January 31, 2020. Staff and volunteers were actively involved in developing professional development presentations, including ethics modules, to support the program. The Continuing Professional Development Compliance Committee developed procedures to monitor compliance and reviewed requests for variation based on individual circumstances.

### Registration

APEGS' overall membership increased by 5.1 per cent in 2019. There was modest growth of 1.3 per cent and 0.5 per cent for professional engineers and professional geoscientists, respectively. The number of members-in-training declined – 7.7 per cent for engineers-in-training and 4.1 per cent for

geoscientists-in-training. The decline in the number of engineers-in-training is deceiving, as many recently-approved engineers-in-training are outside of Saskatchewan (and Canada) and are eligible for a license waiver and recorded under the category of License Requirement Waived in the statistical table. The number of applications received from international engineering graduates was down from 2,701 in 2018 to 904 in 2019. However, new applications and the backlog of existing applications continues to challenge staff and volunteers. The number of life members increased by 7.9 per cent.

### Membership Statistics

MEMBERSHIP CATEGORY	2018	2019	CHANGE	PERCENTAGE CHANGE
Professional Engineers	8071	8178	107	1.3%
Professional Geoscientists	568	571	3	0.5%
Engineers-in-Training	2144	1979	(165)	(7.7%)
Geoscientists-in-Training	218	209	(9)	(4.1%)
Geoscience Licensees	11	9	(2)	(18.2%)
Engineering Licensees	113	123	10	8.9%
Temporary Licensees	23	19	(4)	(17.4)%
Licence Requirement Waived: (P.Eng./P.Geo./Licensee/ Members-in-Training)	1378	2072	694	50.4%
Life Members (P.Eng. & P.Geo.)	1117	1182	65	5.8%
Total – Members / Licensees	13643	14342	699	5.1%
Resignations: Members & Licensees	475	555	85	18.1%
Permission to Consult Applications	339	512	173	51.0%
Certificates of Authorization	1261	1305	44	3.5%

Brackets indicate (decrease)

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Members approved bylaw amendments at the 2018 annual meeting which saw a change from the paper-based work experience reporting system to a competency-based, online work experience reporting system for engineers-in-training. As of January 1, 2019, all new members-in-training and those engineers-in-training who had not submitted any work experience reports were required to adopt the new reporting system. APEGS participated in an online competency-based pilot project for work experience reporting with Geoscientists Canada. APEGS members will be asked to confirm bylaw amendments at the 2020 annual meeting to adopt a similar reporting system for geoscience to take effect on January 1, 2021.

### **Compliance Activities**

As part of its regulatory function, APEGS is responsible to ensure that persons who are not APEGS members or licensees are not using the engineering or geoscience titles to imply they are members and from engaging in the practice of professional engineering or professional geoscience without being appropriately licensed or supervised by someone licensed by APEGS. Staff follows up on reports from APEGS members and others, as well identifies possible violations of *The Engineering and Geoscience Professions Act*.

### **Member Database, Website and Online Services**

The contract for the initial phase of the updated member database, which was launched in late 2018, was completed in late 2019. There are planned enhancements or wish list items that will increase efficiency for staff, improve members' online experience and evolve as regulatory needs change.

### **Volunteerism and Outreach**

As a regulator, APEGS requires the professional expertise of its volunteers in its regulatory processes – assessment of qualifications, investigation and discipline, professional development and outreach activities. Many members serve on APEGS boards and committees, on its governing council and contribute to events such as the annual meeting, professional development days and career days.

APEGS members are also active volunteers at the national level, participating in activities such as the Canadian Engineering Accreditation Board, the Canadian Engineering Qualifications Board and the Canadian Geoscience Standards Council and at the local level for chapters of the learned societies and similar engineering and geoscience groups.

APEGS was active in its communications and outreach activities in 2019. *The Professional Edge* continues to be the primary communication vehicle with members and APEGS continued its relationships with the university student groups.

During Engineering and Geoscience Week in Saskatchewan, every school in Saskatchewan was provided with a DVD of the movie *Dream Big: Engineering Our World*. (If you haven't yet watched it, it is available on Netflix Canada as of the writing of this report). Many APEGS members introduced the movie throughout Saskatchewan and talked with students about engineering careers.

APEGS is heavily reliant on the contributions of volunteers – members and others – who continued to contribute their time during 2019, and to them, on behalf of APEGS and myself, I say thank you.

It has been an honour and a pleasure to work with Past President Stormy Holmes, P.Eng., and current President Terry Fonstad, P.Eng., FEC, along with Executive Committee and Council.

Last but not least, APEGS has a dedicated staff that serves the public, APEGS members and applicants, and to whom I offer my sincerest thanks.

Respectfully submitted,

Bob McDonald, P.Eng., MBA, LL.B., FEC, FGC  
(Hon.), FCSSE

## Public Appointees

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The Government of Saskatchewan appoints two members of the public to the APEGS Council. These representatives are independent members of the public working together with the elected members of the APEGS Council to represent and protect the public interest in the outcomes of decisions made by Council in regulating the professions of engineering and geoscience in the province.

Public appointees serve on either the Investigation Committee or the Discipline Committee. They are appointed for a three-year term, which can be renewed for an additional three years. However, terms can be extended until a replacement is appointed by the government.

As public representatives on council, this 2019 report presents our opinion on how the APEGS Council has met its mandate over the past year.

Last year (2019) was the inaugural year of the required continuing professional development program. While staff are pleased with the increase in the continuing profession development reporting, additional work remains to achieve our goal of 100 per cent reporting.

In the area of registration, APEGS has seen a large increase in international applications. This has created an added workload for the staff which will continue well into next year.

The investigation and discipline processes are well managed by staff, committee members and independent legal representatives.

Executive committee and council took the proactive step in 2019 of initiating a governance review. Recommendations from the review are being considered by council for implementation in the coming years.

In closing, it is our opinion that the APEGS membership is well served by council and the dedicated staff. APEGS is seen as a leader among our peers in self-regulation within the province and nationally. APEGS is fortunate to have an accomplished leadership team.

Respectfully submitted,

Dwaine Entner, Public Appointee

Wendell Patzer, Public Appointee

## Investigation Committee

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*The Engineering and Geoscience Professions Act and Bylaws* state that APEGS has the responsibility and jurisdiction to investigate complaints alleging professional misconduct and/or professional incompetence of its members, licensees, or holders of a Certificate of Authorization.

To fulfill this requirement, the APEGS Council appoints an Investigation Committee comprised of volunteers from its membership, as well as one public appointee. To maintain confidentiality and fairness in the investigation process, the Investigation Committee completes its investigations independently of the Discipline Committee and the APEGS Council.

The Investigation Committee initiates the investigation process when either a written complaint is received, or when requested by APEGS Council. The investigation process is led by the volunteer members of the Investigation Committee with support from APEGS staff and external legal counsel and includes gathering, examining and weighing evidence over the course of multiple meetings.

The full investigation process can take more than a year to complete, especially in more complex cases. In cases where the Investigation Committee requires additional information related to the subject matter or assessment of the conduct of the member, the committee can request APEGS staff to commission an independent external expert to review evidence and provide an opinion.

Upon completion of its investigation, the committee can conclude that the matter be forwarded to the Discipline Committee for a hearing, or it may recommend that no further action be taken. The conclusions are presented to the complainant, the member being complained against, the APEGS Council and the Discipline Committee in a written report.

When the Investigation Committee recommends that no further action be taken, complainants may request that council review the recommendation if they feel that the Investigation Committee did not fully and fairly follow the investigation process.

The Investigation Committee held eight face-to-face meetings and received 13 new complaints in 2019. Throughout the year, the committee referred two cases to the Discipline Committee, pending completion of the pre-hearing conferences and completed three reports recommending no further action be taken. Four investigation files were officially closed in 2019. The committee ended 2019 with 23 case files, nine substantially complete, leaving 14 ongoing investigations.

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In total, 15 individuals work together to complete the objectives of the Investigation Committee, comprising 12 APEGS member volunteers, the public appointee, external legal counsel and staff support. Thank you to all for their outstanding efforts in supporting the work of the Investigation Committee.

Respectfully submitted,

Margaret Ball, P.Eng., FEC  
Chair

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## Discipline Committee

Under the provisions of *The Engineering and Geoscience Professions Act and Regulatory Bylaws*, the Discipline Committee has the responsibility to act on formal complaints referred by the Investigation Committee.

A discipline hearing panel, constituted from the Discipline Committee, hears complaints regarding the conduct of individuals and/or corporations registered with and under the authority of the association to determine whether such conduct constitutes professional misconduct or professional incompetence.

When the discipline hearing panel finds that conduct constitutes professional misconduct or professional incompetence, appropriate disciplinary orders are issued. Decisions of the discipline hearing panel are open to appeal only through the courts.

In 2019, there were no formal complaints resulting in a discipline hearing. The committee officially met three times. There were some transitions on the committee with some members stepping down and addition of some new members. The addition of new members was made to obtain diversity and expertise across disciplines as well as increase female representation.

The Discipline Committee members had the opportunity to attend two training sessions in 2019 to allow members to conduct discipline panels in a more effective and competent manner.

In February, the committee chair participated in effective meeting training provided by Lisa Moretto of RGI International Inc. This training was attended by a variety of APEGS committee chairs. In November, committee members were able to attend a two-day session on investigation and discipline procedures hosted by the Saskatchewan Self-Regulating Professions Working Group. This training was attended by representatives of 18 self-regulated professions in Saskatchewan.

I would like to thank our support staff, our external legal counsel, our public appointee, and our outgoing chair, as well as the many other dedicated APEGS staff for their work in helping with the business of the committee and preparing for hearings.

Respectfully submitted,

Brian AuCoin, P.Eng.  
Chair



## 30 by 30 Champions' Group

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For the year 2019, Executive Committee asked that the 30 by 30 Task Group, as defined by the original October 14, 2016 terms of reference, be dissolved and a new Champion's Model be established.

The goal was to champion the 30 by 30 effort on behalf of APEGS in doing our part to meet and exceed the national goal by ensuring the goals and activities required are embedded into the annual activities of standing APEGS committees and boards and other related working groups.

The national goal established by Engineers Canada is to raise the percentage of newly licensed engineers who are women to 30 per cent by 2030. In 2018, Engineers Canada's board expanded the 30 by 30 initiative to include the retention and professional development of women.

### **Transitional activities completed in 2019:**

- Transition activities to the appropriate committee.
- The Champion's Group identified and referred a number of activities to the K-12, Student Development, Equity & Diversity (E&D) and Professional Development committees, including: Engagement with the Saskatchewan Science Centre, SolveEng, Girls Learning to Code, various career fairs, University of Regina and Saskatchewan student/professional mentoring events, sponsoring of the University of Saskatchewan's GearUP program, contributing 30 by 30 related professional development recommendations and recommendations regarding women's mentoring opportunities that exist in Canada for professional women.
- Sample work plans for liaison committees were reviewed and discussed. Items that did not fit existing committees were identified for the Champion model in the future.
- Contributed to APEGS Governance Review Project by providing 30 by 30's survey feedback, which is intended to link the objectives of 30 by 30 to the Act.
- Wrap up existing activities initiated by the original Task Group.
- The 30 by 30 APEGS Awards for Women in Engineering and Geoscience are now in place at both universities.
- Embed 30 by 30 objectives into standing APEGS committees' and boards' annual activities.
- Drafted 30 by 30 terms of reference recommendation to be added to standing committees' terms of reference and is awaiting the outcome of the governance review.
- The Champion attended committee meetings to discuss the 30 by 30 objectives and opportunities.
- Monitor, respond and where appropriate champion Engineers Canada's activities and those of other constituent associations' 30 by 30 initiatives for potential implementation by APEGS.
- Margaret Anne Hodges, P.Eng., participated via conference call with Engineers Geoscientists Manitoba "Engineers Change Lives" (ECL) meetings throughout the year. Projects of note include: Their industry consortium to engage industry in the 30 by 30 objectives, looking into why only 50 per cent of engineering graduates (women and men) pursue licensure, campaigning to engage Grade 9 students in engineering and geoscience and ECL webpage development.
- Refer provincial and/or national organizations with partnering opportunities to the appropriate APEGS committees.
- The material from the OPSE survey from 2018 was made available and the report from Driving WinTech that APEGS supported was also distributed;
- Worked to develop and transition to Equity and Diversity Committee an initiative to engage APEGS membership with the DiscoverE organization and their (free) Global Marathon webinars.
- Define and make recommendations to Executive Committee on a longer-term Champion's Model.
- The transitional term of reference was a year in scope and the Champion's Group has wound down. Remaining is the completion of the Champion's Report on recommendations regarding the Champion's role within APEGS and how 30 by 30 goals can be incorporated into the association's operations.
- At the October 4 Engineers Canada's board meeting, the sub-strategy for 'Strategic priority 3: Recruitment, retention and professional development of women' was approved. This includes the important realization that to increase women in the professions, a multidimensional approach that emphasizes not only recruitment, but retention and professional development is required.

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The strategy is based on the collective impact model, with Engineers Canada acting as a backbone organization, fostering collaboration with stakeholders, working to support solutions and creating a dynamic environment for new ideas. There is no one solution to the 30 by 30 challenge and this strategy lays the foundation for us to continue building the 30 by 30 network and shared national resources.

#### **Champion Highlights from Engineers Canada:**

- Engineers Canada released its Environmental Scan Report 30 by 30 and Beyond  
<https://engineerscanada.ca/sites/default/files/diversity/SP3-Environmental-Scan.pdf>
- Both Dena McMartin, P.Geo., (University of Saskatchewan Champion) and Margaret Anne Hodges, P.Eng., FEC, attended the 30 by 30 face-to-face meeting in February. Highlights included breakout sessions to discuss action plans for recruitment, retention and professional development, as well as split sessions to discuss 30 by 30 from a regulator's point of view and the perspective of the universities.
- Engineers Canada invited both Dena McMartin and Margaret Anne Hodges to contribute to a featured article sharing our highlights, learnings from working on 30 by 30, key barriers and what it will take to achieve 30 by 30.
- Engineers Canada 30 by 30 has formed four working groups: K To 12, Early Career EIT (Margaret Anne Hodges participating), Post-Secondary and Professional Development (Dena McMartin participating in the last two).
- Agreement regarding the use of the 30 by 30 logo and trademark was signed with Engineers Canada.

#### **Of Special Note: #30YearsLater30 Engineers**

- Marking the 30th anniversary of the murders of fourteen women at École Polytechnique de Montréal, the NCDEAS remembered who and what was lost by highlighting 30 engineers from across Canada who graduated during the event and have achieved exceptional careers. All 30 biographies can be found at [30yearslater.ca](http://30yearslater.ca).

- Karen Nielson, P.Eng. was the University of Saskatchewan alumna nominee and Margaret Anne Hodges, P.Eng. was the University of Regina alumna nominee.

I would like to thank the Champion's Group members for their effort and guidance. It has been a pleasure working with you the last few years. We accomplished much!

On behalf of the Champion's Group, I also want to acknowledge and thank the APEGS staff for their outstanding support of the Champion's Group's activities and agenda this year.

Respectfully submitted,

Margaret Anne Hodges, P.Eng., FEC, FGC (Hon.),  
Chair

## Governance Board

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The purpose of the Governance Board of APEGS is to make provision for and administer the regulation of the practice of engineering and geoscience on behalf of the people of Saskatchewan in accordance with *The Engineering and Geoscience Professions Act*.

This includes the provision of: (a) A definable and consistent means of identification and registration of practitioners; (b) A current description of professional practice and its scope and mechanisms to promote an understanding of professional practice among employers, government and the public; and (c) ongoing maintenance of policies related to the orderly regulation of practice.

The Governance Board consists of Experience Review Committee, Academic Review Committee, Professional Practice Exam Committee, Licensee Admissions Committee, Continuing Professional Development Compliance Committee, Registrar's Advisory Committee, Legislative Liaison Committee and the Saskatchewan Construction Panel Representative.

The Experience Review Committee continues to implement the new Competency Based Assessment System for engineers-in-training and is in the process of introducing a similar system for geoscientists-in-training.

The Academic Review Committee has worked diligently this year to process the backlog of applications resulting from the provincial indication of the potential for immigration last year.

The Professional Practice Exam Committee continues to provide education seminars ahead of and administration of the Professional Practice Exam. APEGS Council has approved the writing of the exam by applicants as long as they have completed their undergraduate requirements.

The Licensee Admissions Committee has continued to see an increase in experienced professionals applying for Licensee registration.

The new Continuing Professional Development Compliance Committee (CPDCC) has been able to work through many of the logistics of implementing of APEGS mandatory continuing professional development (CPD) reporting including variation request policies. This has been a busy year for CPDCC due to this being the first year of CPD reporting requirements for registration.

The Registrar's Advisory Committee, Legislative Liaison Committee and our Saskatchewan Construction Panel Representative continue to provide an important role in the governance of APEGS.

I would personally like to thank all the volunteers on the Governance Board committees who take time away from family to serve the public in these important roles.

Respectfully submitted,

Terry Fonstad, PhD, P.Eng., P.Ag., FEC  
Chair

## Academic Review Committee

Academic Review Committee (ARC) is comprised of 16 voting members and 12 non-voting reviewers. ARC's mission is to administer the policies and procedures established by Council for the review of the academic qualifications of individuals applying for membership in the association, and to make recommendations to the Executive Director & Registrar as prescribed in Section 20(1) of *The Engineering and Geosciences Professions Act*. Individuals who have graduated from a CEAB accredited Canadian program, are registered in another association/ordre in Canada or who otherwise fall under the Registrar's Acceptance List (estimate 125 in 2019) are expeditiously registered as a P.Eng./P.Geo. or as a member-in-training without a detailed academic review by ARC.

The ARC reviews applicants with an international bachelor level education in engineering or geoscience and Canadian geoscience applicants who have been referred to the committee by staff (there is no national accreditation of geoscience programs in Canada). In 2019 ARC met monthly.

The assessment of applications by ARC is required to determine if an applicant has a degree with sufficient breadth and depth to practice safely in a Canadian environment and, if not, to identify any deficiencies in the program of study. ARC advises applicants of any deficiencies and provides a clear roadmap for the applicant to correct those deficiencies. If there are no deficiencies, or once the applicant has fulfilled deficiencies, they will be assigned three confirmatory exams, which are intended to confirm that the applicant's program is at a level comparable to a similar program in Canada. The confirmatory exams may be waived by the ARC, in a number of situations, but most commonly if the applicant has five or more years of acceptable engineering or geoscience work experience at a professional level, as determined by the Experience Review Committee (ERC), or if the applicant holds a relevant graduate degree from an acceptable university program, as determined by the ARC.

In 2019 the ARC bypass that was added to our engineering review policy in late 2018 was implemented. Applicants with an international graduate degree in engineering (assessed by WES), could have confirmatory exams waived without going to ARC. The files are assessed by a preliminary reviewer only, and if after following the "Guideline on applying the CEQB Syllabi" there are no deficiencies, then the graduates degree is assessed to waive exams and the applicants are recommended for approval. This has resulted in a faster processing time for these applicants, and a reduction in the proportion of total files that go to ARC (see table on page 12 for details).

Between 2015 and 2018 the number of international graduates applying for

licensure increased from about 550 in 2015 and to about 2700 in 2018. In 2019 the volumes of applications dropped significantly, to about 890 due to changes in the Saskatchewan Immigrant Nominee Program (SINP).

The following table provides a summary of the applications processed by the ARC over the past three years. The volume of files processed in 2019 is a record. This was accomplished by implementation of the third by-pass option, as well as streamlining of ARC review processes to ensure that straightforward files were resolved outside meetings and finalized through the consent agenda.

	ENGINEERING			GEOSCIENCE		
CATEGORY	2017	2018	2019	2017	2018	2019
# of individual applicants (including bypass options in 2018)	308	527	1847	18	12	15
# assigned deficiencies	79	57	186	6	2	8
# assigned confirmatory exams	32	106	395	0	1	0
# given ERC option to waive confirmatory exams	22	69	215	0	1	2
# ARC by-pass 1 (ERC option to waive)	48	177	474	NA	NA	NA
# ARC by-pass 3 (international grad degree)	NA	NA	380	NA	NA	NA
# recommend as MIT	60	109	75	8	8	5
# denied	7	12	78	1	0	0
# re-assessments	28	5	40	2	2	0
# other	NA	NA	5	NA	NA	0
<b>TOTAL FILES THROUGH ARC</b>	<b>240</b>	<b>353</b>	<b>994</b>	<b>18</b>	<b>14</b>	<b>15</b>

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The large number of denials is due to confusion amongst applicants of whether their education is computer science/software development or engineering. Both fall under the same National Occupation Code and therefore SINP told them all to register with APEGS even though many did not actually have an appropriate engineering education.

The drop in the number of files recommended as member-in-training is because many of the files that would have previously gone to ARC to be approved are now going through bypass #3.

ARC is fortunate to have a diversity of committed volunteers who are fluent in a variety of languages; have personal knowledge of Canadian programs, foreign post-secondary educational systems and institutions; and have personal experience with ARC processes leading to their professional registration in Saskatchewan. Without them, ARC would be unable to complete its mission.

The Academic Review Committee would like to express its sincere appreciation for the hard work of staff at APEGS and for the exemplary service of our volunteers, both current and retired, who have contributed greatly to the success of ARC and APEGS.

Respectfully submitted,

Malcolm Reeves P.Eng., P.Geo., FEC, FGC  
Chair

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## Licensee Admissions Committee

The Licensee Admissions Committee administers the policy and procedures established by Council for review of the academic and experience qualifications of applicants seeking to practise engineering or geoscience as an Engineering Licensee or Geoscience Licensee and makes recommendations to the registrar following the completion of those reviews.

Licensee Admissions Committee members are appointed by the governance board from a cross-section of academic disciplines, workplace sectors and membership categories.

Engineering Licensees and Geoscience Licensees are members who do not meet the normal academic requirement for P.Eng. or P.Geo. membership, but do have a combination of education and experience that allows them to take responsibility for their own work within a specific and restricted scope of practice.

Engineering Licensees and Geoscience Licensees have the same rights and privileges as P.Eng. and P.Geo. members. The only difference is that licensees have a specific scope of practice, defined and approved by APEGS and stated on their licences. This is the scope of practice within which they are able to practise independently.

Depending on their academic background, licensee applicants must have at least five years of work experience that is directly related to the requested scope of practice and under the direct supervision of a Canadian P.Eng., P.Geo., Engineering Licensee or Geoscience Licensee. At least one year of experience must be obtained in Canada or in an equivalent-to-Canada work environment. All of the work experience must be post-education.

The Licensee Admissions Committee met four times in 2019 and recommended 15 new Engineering Licensees for approval by the Registrar. There were no new Geoscience Licensees approved in 2019. Another 17 applicants for interprovincial mobility were approved directly through the Registrar's Acceptance List. At the end of 2019, APEGS membership included 142 Engineering Licensees and 11 Geoscience Licensees.

The committee will continue to reviewed options, targets, costs and effectiveness of advertising aimed at increasing awareness of licensee membership. This initiative will continue in 2020 as part of an overall APEGS communications strategy.



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The Licensee Admissions Committee has adopted a plan to implement Competency-Based Assessment (CBA) of the work experience of Engineering and Geoscience Licensee applicants. This is scheduled to be implemented by January 1, 2021.

The committee is grateful to the APEGS staff support to the committee for her invaluable guidance and support.

Respectfully submitted,

Rick Kullman, P.Eng., FEC, FGC (Hon.)  
Chair

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## Experience Review Committee

Under the jurisdiction of the Governance Board, the Experience Review Committee (ERC) administers the policy and procedures established by council for the review of work experience reports of members-in-training and other individuals applying for professional membership with the association. The committee makes recommendations to the Registrar following completion of those reviews.

The ERC started receiving and reviewing Competency Based Assessment (CBA) experience reports for engineering applicants once the new online system was available in early 2019. The new CBA system required training for all ERC members to be assessors in the new system as well as updating procedures and policies to accommodate the differences between the outgoing paper-based and the new online systems. These changes were required to streamline the review process without negatively impacting the efficacy of the reviews.

The changing of policies and procedures as well as the acquisition of many lessons learned and frequently asked questions required regular updates to the Competency Assessment Guide for Applicants, Validators and Assessors. Once the updates were approved, they were uploaded to the APEGS website so applicants and validators had the most current information available to them.

One of the changes made with the adoption of the CBA system was the removal of interim experience report submissions. These interim report submissions were a means for members-in-training to not only receive feedback on initial reports so subsequent reports could meet the submission requirements, but to register and interact with APEGS prior to becoming a professional member. The ERC has now been tasked with evaluating options as a replacement to interim submissions that will encourage this early interaction.

Engineers Canada, who is the national organization of the 12 engineering regulators in Canada, has been undertaking a Canadian Environment Experience Competencies (CEEC) project to evaluate alternatives to the current Canadian or equivalent-to-Canadian experience requirement of 12 months. This would apply to either Canadian or international graduates.

The goal of the project is to develop a process to assess that engineering applicants have an adequate working knowledge of relevant technical and non-technical issues that are unique to the Canadian environment no matter where the applicant received their bachelor degree and no matter if their experience is from within Canada or not.

The process that was developed by Engineers Canada in collaboration with the 12 engineering regulators identified eight competencies within the existing CBA

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system that would meet this goal if completed in a Canadian or equivalent-to-Canadian environment. The requirement for engineering applicants to APEGS to demonstrate acceptable experience in these eight competencies is effective January 1, 2020.

APEGS ERC has been working with Geoscientists Canada, which is the national organization of the nine provincial and territorial regulatory bodies for geoscientists, to develop a CBA system for geoscientists. The ERC formed a subcommittee to review the system proposed by Geoscientists Canada and participate in a pilot of the new system. The subcommittee continues to work with Geoscientists Canada to have the geoscientists CBA system available for implementation by January 2021.

Our regular committee work of auditing experience reports continued with 748 paper-based reports and 431 CBA reports reviewed and nine regular committee meetings. The transition to the engineering CBA system is happening steadily and quickly.

In January, all submitted reports were paper-based, but by October, the number of CBA report submissions exceeded those of paper-based reports.

This year we also saw the continuation of a high number of applicants that have been referred by the Academic Review Committee (ARC) to submit five years of experience in order to waive confirmatory exams. Of the total 1,179 reports that were reviewed by the committee, 389 reports from 262 applicants were reviewed under this ARC process.

The membership of the ERC was 35 members as of December, with 19 new members in 2019 to replace members who had completed their terms or resigned from the committee. Specialist reviewers also were occasionally used during the year when the committee members felt that the experience contained in a report was outside the expertise of the committee members.

I would like to thank all past and present committee members for their time commitment, especially through a year that included significant changes to how the committee completes its primary role of auditing experience reports.

The committee would like to thank our liaison councillor and the APEGS staff who support the ERC.

Respectfully submitted,

Kevin Ness, P.Eng.  
Chair

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## Continuing Professional Development Compliance Committee

2019 marked the first year of required reporting of continuing professional development (CPD) credits for APEGS members. The Continuing Professional Development Compliance Committee (CPDCC) monitors the compliance of members with the APEGS' CPD program and falls under the Governance Board.

Over the past year, the newly formed committee worked on several policies, guidelines and other documentations for the monitoring and enforcement of the CPD program.

The variation request is a prime example of an activity the committee worked on during the year. This meant tailoring the process to ensure a well-defined pathway, including the possibility of remediation for members who find themselves in an after-the-fact scenario.

This process is the means whereby a member can request a reduced number of CPD credits due to extenuating circumstances such as unemployment, illness or parental leave.

Having received 117 requests for 2019, 29 were submitted in December and 47 in 2020, the committee sees an opportunity to focus its efforts on education during 2020.

Council has approved the establishment of a deadline of September 30 of the reporting year by which a member should submit his/her variation request after which time a remediation plan will be required to bring the member into compliance the following year. Another initiative will be to remind members to take advantage of professional development opportunities provided by the association.

I wish to thank all members of this committee for their hard work and dedication during 2019 and grateful appreciation for our APEGS support staff and their valued contributions.

Respectfully submitted,

Sebastian Walrond, P.Eng.  
Chair

## Professional Practice Exam Committee

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The mandate of the Professional Practice Exam Committee is to coordinate and direct the Law and Ethics Seminars and to oversee the setting and administration of the Professional Practice Exam.

APEGS holds the Law and Ethics Seminar in Saskatoon in the spring and in Regina in the fall each year. Each seminar runs for two days and focuses on preparing new members for the roles and responsibilities of professional engineers and geoscientists in society.

The seminar also helps prepare the participants for the Professional Practice Exam. The major areas covered by the seminar include:

- An introduction to the association.
- Key laws and regulations for geoscientists and engineers.
- An introduction to the act and bylaws.
- Investigation and discipline processes of the association.
- Professional conduct, ethics and responsibilities.

The spring seminar was held in Saskatoon on April 12-13, 2019 with 176 registrants. The fall seminar was held on September 27-28, 2019 in Regina with 136 registrants.

The Professional Practice Exam is offered twice a year and is written a number of weeks after each seminar. A total of 197 people wrote the spring exam on May 4, 2019, or on pre-arranged alternate dates, with three failures.

For the fall exam, 157 people wrote on November 2, 2019, or on pre-arranged alternate dates. There were three failures in the fall sitting. A survey of participants was sent out after each seminar and exam in order to review and improve both.

A project to update the seminar content and delivery methods began in 2019 and will continue into 2020.

The Professional Practice Exam Committee has also been working with the Professional Development Committee on the delivery of ethics seminars in conjunction with the Professional Development Days.

Respectfully submitted,

Ryan MacGillivray, P. Eng.  
Chair

## Registrar's Advisory Committee

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The Registrar's Advisory Committee reports to the Governance Board. The committee is comprised of five members: the chairs of the Academic Review Committee, Experience Review Committee, Licensee Admissions Committee, Professional Practice Exam Committee and a Liaison Councillor appointed by Council.

The registrar will call on the Registrar's Advisory Committee to provide a recommendation on how to proceed with an application for membership or licensure should any question of character arise. The committee uses the Good Character Guideline established by council as its guide when making decisions.

The committee met once in 2019 and made recommendations to the registrar regarding two applicant files.

The committee would like to thank the APEGS staff for the support they have provided to the committee 2019.

Respectfully submitted,

Registrar's Advisory Committee

## Legislative Liaison Committee

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The Legislative Liaison Committee monitors demand-side legislation and proposed regulations to assess potential effects on the association and its members related to the practice of engineering and geoscience in Saskatchewan.

Six new bills were introduced at the spring sitting of the Legislative Assembly, which was held March 4 to May 16, 2019.

Thirty-three new bills were introduced at the fall sitting of the Legislative Assembly, which was held October 23 to December 5, 2019.

A total of thirty-nine bills were monitored during the year. The 39 bills that were monitored have no direct effect on the association and its members related to the practice of engineering and geoscience in Saskatchewan.

Respectfully submitted,

Myron Herasymuik, P. Eng., FEC  
Chair

## Saskatchewan Construction Panel

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The Saskatchewan Construction Panel (SCP) is a forum for the exchanging of ideas between the public and private sectors of the construction industry. Topics like construction research, industry activity, limitation of liability, PST, fees and services, government tendering policy, consultant contracts and construction contracts are ongoing topics of discussion.

The SCP reviewed the projects that were related to the provincial budget. For the most part, both contractors and consultants were slow and steady and most were looking for work.

The City of Regina had a task group reviewing the building permit process. The task group completed its work at year end and its recommendations went to city council in January 2020.

The SCP had a presentation on supplier development and learned of some of the successes they have had. A presentation was received on the new prompt payment legislation, which was in the process of implementation.

Respectfully submitted,

Gordon Beck, P. Eng. FEC  
APEGS Appointee

## The Image and Identity Board

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The Image and Identity Board (I&I Board) promotes the value of engineering and geoscience within the professions and to the public through member engagement and recognition and through communications and public relations. The I&I Board is chaired by the president-elect and is composed of the committee chairs and liaison councillors from the five committees reporting through the I&I Board.

The APEGS communications manager has developed a communications strategy for the organization that encompasses a stepwise process of research and planning followed by implementation. In 2019, the board continued to focus on initiatives which align with the association's statutory objects, including the addition of a readership survey to better understand our audience, the Dream Big initiative in schools and planning to highlight the important contributions made by geoscientists to the province and profession.

**Awards Committee (Awards):** The committee's mandate is to lead APEGS initiatives and programs that seek to recognize members' achievements. The committee develops criteria for APEGS awards, seeks nominees and recommends award recipients to the I&I Board. It also administers and awards the annual member education grants. Nominations of members for awards administered by other organizations are also developed. The committee is continually working on strategies and methods to increase nominations.

**Communications and Public Relations Committee (CPR):** The committee's mandate is to raise the awareness and profile of the engineering and geoscience professions within APEGS and other professional organizations, government, the business community and the public. The CPR and *The Professional Edge* committees have created a common committee member to maintain consistency between these two related committees. The public relations campaign continues with the tagline "Regulating the professions. Protecting the public.", again tying back to the association's objects.

**Connection and Involvement Committee (C&I):** The committee's mandate is to enhance the experience of APEGS members. The committee is working towards improving information channels and connections with the constituent societies. In 2018, the C&I conducted a comprehensive member survey and facilitated the planning of another highly successful annual meeting and professional development conference in Saskatoon.

**Equity and Diversity Committee (E&D):** The committee's mandate is to provide leadership for APEGS on equity and diversity goals, to foster an understanding of the importance of equity and diversity within the engineering and geoscience

professions and to lead or participate in initiatives to attain and celebrate the achievement of equity and diversity goals. Through subcommittees the E&D works to ensure the association is a fully inclusive organization.

**Professional Edge Committee (Edge):** The committee's mandate is to publish *The Professional Edge*, the association's magazine, in both print and digital format. The committee develops themes, sources content and provides editorial services.

Thank you to all the volunteers and staff that support the work of the board. The hard work of our chairs and committees assists our professions and organization with maintaining the public's confidence and safety.

Respectfully submitted,

Andrew Lockwood, P.Eng., FEC  
Chair



## Awards Committee

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The Awards Committee (AC) has a mandate to pursue recognition for members' achievements by:

- Reviewing criteria of the awards established by council.
- Developing criteria for new awards to be recommended for establishment by council.
- Searching for candidates, reviewing nominations and making recommendations to the Image and Identity Board for recipients of awards established by council annually.
- Searching for candidates and making recommendations to the Image and Identity Board for submission of nominations of members for local, provincial, national and international awards offered to engineers or geoscientists when appropriate.
- Searching for candidates and making recommendations to the Image and Identity Board for submission of nominations of members for other awards as deemed appropriate by the AC, the Image and Identity Board or council.
- Searching for candidates and making recommendations for Fellowship of Engineers Canada and/or Geoscientists Canada.

The Awards Committee reviewed many excellent nominations. Individuals were chosen for their exemplary work in the areas of engineering/geoscience achievement, service to the professions and service to the community. One individual, who is not an APEGS member, was recognized for his exceptional achievements or unique contributions in the promotion of the professions. The project award recognized a team of Saskatchewan geoscientists and engineers for an exceptional contribution to the province.

### **The seven awards presented at the 2019 Annual Meeting Awards Banquet were:**

**Outstanding Achievement** - Esam M.A. Hussein, P.Eng.

**Brian Eckel Distinguished Service Award** - Kenneth G. Linnen, P.Eng., FEC

**McCannel** - Kevin W. Hudson, P.Eng., FEC

**Outstanding Engineering/Geoscience Project** - Neighborhood Traffic Reviews, City of Saskatoon

**Environmental Excellence** - Nathan E.P. Bruce, Engineer-In-Training

**Promising Member** - Nicholas Kaminski, P.Eng.

**Friend of the Professions** - Deborah Rolfes

In recognition of noteworthy service to the professions, seven individuals were bestowed with the title of Fellow of Engineers Canada (FEC) or Honorary Fellow of Engineers Canada, FEC (Hon.) and four were bestowed with the title of Fellow of Geoscientists Canada (FGC) or Honorary Fellow of Geoscientists Canada (FGC (Hon.)).

2019 was the sixth year APEGS provided Member Education Grants and the third year six grants totaling \$45,000 have been awarded. The grants provide financial support to APEGS members furthering their education in graduate studies at either the University of Regina or the University of Saskatchewan. The Awards Committee was extremely pleased to award six grants of \$7,500 each.

Special appreciation goes to the volunteers and the APEGS staff for their continued support of the Awards Committee.

Respectfully submitted,

Bryan Schreiner, P.Eng., P.Geo., FEC, FGC  
Chair

## Connection and Involvement Committee

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The Connection and Involvement Committee (C&I) works to enhance the APEGS membership experience by providing opportunities and information related to involvement, benefits and activities within APEGS and the constituent societies. Some of the added services the C&I helps to make available to APEGS members include:

- Annual Meeting and Professional Development Conference and networking activities.
- Annual salary survey.
- Volunteer orientation and recognition.
- Review of the Constituent Society Grants.
- Development and maintenance of membership benefits and affinity programs.

The APEGS 89th Annual Meeting and Professional Development Conference was held in Regina May 2-4, 2019 and the theme was Working Together, Engaging Communities. Events and activities included:

- A welcome event Jersey Night at Mosaic Stadium;
- A plenary session with keynote Deanna Burgart, P.Eng., who is a speaker, trainer, engineer and mentor that has a talent for identifying gaps and providing solutions to systemic, organizational and transformational change.

Professional Development track sessions on a variety of topics including:

- Carbon pricing, the new CPD Program, networking; truth and reconciliation, broadband enablement for the digital economy and SaskPower's grid modernization.
- A professional development luncheon with keynote Christopher Sand, a senior researcher professor and director of the Centre for Canadian Studies at the Paul H. Nitze School of Advance International Studies.

The Annual Salary Survey was completed by members in March and April. Inshtrix Research Inc. delivered the online survey through email to 5,923 APEGS members living in Saskatchewan. A total of 1,293 members completed the survey representing a 32.5 per cent response rate. The salaries reported were as of December 31, 2018 and results were presented in *The Professional Edge* and are available on the APEGS website.

APEGS operates by the efforts of many volunteers. As a token of appreciation, Bernard Callebaut chocolates were mailed out to all active APEGS volunteers. The chocolates were a great way to thank all APEGS volunteers who are located throughout the province.

APEGS provided constituent society grants to the five active constituent societies including CIM Geology Section, Moose Jaw Engineering Society, Saskatchewan Geological Society, Regina Engineering Society and the Saskatoon Engineering Society.

Respectfully submitted,

Catherine Griffith, P. Eng.  
Chair

## Professional Edge Committee

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The Professional Edge Committee mandate is to publish current and relevant articles regarding subject areas of interest to the Saskatchewan community of professional engineers and geoscientists and to set business and publishing policy. To meet this mandate, The Professional Edge Committee publishes *The Professional Edge* once every two months.

*The Professional Edge* covers a wide array of topics and articles. Each edition focuses on a central theme that relays at least one unique aspect of engineering or geoscience in Saskatchewan. It is the committee's intent to provide a balanced perspective regarding the articles contained in the publication and to engage as many different areas of interest as possible among the large and diverse membership. It is the committee's intent that each issue contains relevant material for all readers. To this end, the committee invites members' input and ideas for articles to be included in the publication. Publications for 2019 included the following themes:

- Profiles in Achievement (January/February).
- The Professions and Communications (March/April).
- Annual Meeting (May/June).
- Diversity and Inclusion (July/August).
- Food Process (September/October).
- Women in Mining (November/December).

*The Professional Edge* remains a print magazine and is regularly accompanied by a mobile electronic version called the e-Edge. The portable document format (pdf) export of the print magazine is the official archive.

Visit the APEGS website for the historical archive of engineering and geoscience in Saskatchewan. A combination of both the print and electronic versions of the publication will continue to be used for *The Professional Edge* for the next few years. Members are encouraged to share their thoughts regarding the publication with the Edge Committee — send email to [APEGS@APEGS.ca](mailto:APEGS@APEGS.ca) or call the APEGS office.

This year the committee solicited interest from more than 100 members who are registered on the APEGS volunteer database and had expressed interest in volunteering for the Edge Committee. The committee used the responses to select two members to join the committee. It is anticipated that the committee will continue to use this method to select volunteer committee members on a go forward basis.

This year the committee conducted the member readership survey with support from Martin Charlton Communication and Inshtrix Research Inc. From the responses received between October 7 and November 4, 2019, the overall satisfaction with *The Professional Edge* and with most specific attributes of the magazine is high. APEGS members most commonly suggest more relevant content, an online/electronic version and more technical/research-based articles as ways to improve *The Professional Edge*.

Continuation of a print version of the publication is recommended, yet developing an enhanced online version is advised. Many said they are supportive of migrating to an electronic version with a print version upon request, given that print is still the number one preferred format. The committee will determine a plan and implement it to address the conclusions and suggestions from the member readership survey.

The publication of *The Professional Edge* is aided greatly by the work of the members of The Professional Edge Committee and the writing and editorial skills of Martin Charlton Communications. The committee acknowledges the contributions of its volunteers and expresses its gratitude to the APEGS staff for their ongoing support.

Respectfully submitted,

Xiangning Li, P.Eng.  
Chair

## Communications and Public Relations Committee

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The committee's mandate is to coordinate and organize the annual awareness program, ensure participation and engagement of our stakeholders in Engineering and Geoscience Week and ensure that it provides a well-structured plan for sponsorships, advertising and tradeshow.

In 2019, the committee worked in collaboration with the APEGGS communications manager to raise public awareness that APEGGS and its dedicated members protect the Saskatchewan public. In a survey of the public, 67 per cent of Saskatchewan people believe that APEGGS and the engineering and geoscience professions protect the public. This is a new performance indicator to use as a baseline as we continue to raise awareness that APEGGS and the professions protect the public. We have identified some new tasks to have a positive direct effect on public opinion. The committee will continue to survey the public and determine future action based on the discoveries and outcomes.

Below are some key highlights of our deliveries in 2019:

### **New Advertising Campaign**

The committee sought proposals from communications agencies to develop a new advertising campaign. Bravo Tango was awarded the work and created a campaign featuring Mosaic Stadium and reinforcing that APEGGS and the professions protect the public (see the APEGGS website to view the ad). The ads began playing in theatres, online and on radio in October 2019 and will continue in 2020. There is also a logo sponsorship on the Global morning news.

### **New Slogan: "Regulating the professions. Protecting the public."**

As part of the process to produce a new awareness campaign, the committee selected the new slogan "Regulating the professions. Protecting the public." to emphasize APEGGS' role as a regulator. This slogan replaces "We see more", "Ensuring public safety" and other assorted taglines that APEGGS has used in the past, providing one consistent and clear message about APEGGS' mandate.

### **Dream Big for Engineering and Geoscience Week 2019**

In celebration of the week, APEGGS gave the movie Dream Big: Engineering Our World with an educator guide and lesson plans for each grade to every school in Saskatchewan. APEGGS also arranged for volunteers to introduce the movie in 100 schools, reaching over 23,000 students around the province, from Clearwater River in the north to Alameda in the south. APEGGS received

numerous positive comments from teachers, students, parents and volunteers indicating that the experience was enjoyable and inspiring and that the volunteers were great role models.

Respectfully submitted,

Agnel George, P.Eng  
Chair

## Equity and Diversity Committee

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The Equity and Diversity Committee is pleased with the fantastic initiatives that have been undertaken over the past year.

We are moving away from the sub-committee structure and will be restructured by the 2020 annual general meeting. The goals and objectives of the committee as a whole are strong and evolving to meet the direction of APEGS Council and the objectives of the value proposition

Together, the task of the committee is to foster and promote engineering and geoscience as inclusive fields of practice, facilitate internationally educated engineers and geoscientists, ensure APEGS is free of bias and exclusion and facilitate the objectives of APEGS as a whole in the sustainability and regulation of the professions.

Our initiative and actions roster guides our efforts and helps to ensure the accountability and direction of the committee. It continues to be an excellent way to report to the Image and Identity Board and then to council, identify those leading the initiatives and provide the committee with progress and scheduled completion dates.

The Indigenous sub-committee was very active in 2019. The group transitioned from outreach/engagement/advocacy to a governance and advisory support model to APEGS as a whole, supporting initiatives of reconciliation. This resulted in directly supporting and involvement in the creation of Sask.CAISES, of which all subcommittee members are part of and is a professional chapter of AISES (American Indian Science and Engineering Society) and CAISES (Canadian Indigenous Science and Engineering Society).

The chapter is the first one in Canada - ratified by AISES at the 2019 annual conference in Milwaukee with a mandate to be actively involved in increasing the awareness and participation of Indigenous peoples in science, technology, engineering and mathematics (STEM).

Another major activity for 2019 was the leadership, planning and coordination of the annual CAISES gathering which is in Saskatoon on February 27-March 1, 2020, of which APEGS is also a sponsor and increasing the Indigenous content in professional development opportunities through APEGS events. The Nature of Reconciliation and the inclusivity of Indigenous persons will continue to be a focus in 2020.

The Women of APEGS (WOA) continue to encourage and support the enrollment of women in engineering and geoscience while fostering an

understanding of the role of equity and diversity within the professions. The past year included collaboration and sponsorship opportunities with professional organizations such as Women in Mining and Nuclear (WIM/WIN) and the Association of Consulting Engineering Companies of Saskatchewan (ACEC-SK).

Working with other organizations led to new ideas and resources being available to APEGS. The past year also saw many volunteer opportunities for the WOA to share their stories with those looking to enroll in engineering and geoscience and those soon to be entering the work force and promoting the 30 by 30 initiative.

The move to incorporate the WOA subcommittee in the framework of the full committee will allow for further opportunities and input with the resources of all the initiatives. The 30 by 30 Champions group will be expanding the roles of the Equity and Diversity Committee to continue the progress made in 2019.

The International Graduate sub-committee hosted an event in conjunction with the APEGS Annual Meeting and Professional Development Conference to assist international graduates to understand the requirements of being a member-in-training. The feedback was very positive from those attending and the information was useful to obtain licensure. They are also working with the open door societies in the province to provide mentorship and guidance to our new internationally educated members.

The committee would like to thank staff, council and the Image and Identity Board for their support in our undertakings and look forward to a productive 2020 and beyond.

Respectfully submitted,

Rob Stables, P.Eng., FEC  
Chair



## Education Board

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The APEGS Education Board consists of the K-12 Committee, the Student Development Committee, the Professional Development Committee and the Environment and Sustainability Committee.

This year the Education Board set out to execute activities aligning with the vision outlined by council and the Act. Each committee reviewed its Initiatives and Action Roster against the objectives of the Act and updated their activities and budgets accordingly.

As APEGS focuses on regulating the professions, council committed to reviewing its governance to ensure alignment with leading practices of self-regulatory organizations. The governance review was conducted in 2019 and work will continue through 2020 to evaluate recommendations.

Many committee and board members participated in providing input into the governance review. Members recognize the work being conducted within their committees is important in achieving APEGS objectives but recognize the need to review current practices and ensure APEGS adherence to the objects of the association as a regulating body.

The Professional Development Committee finalized the transition of a new Continuing Professional Development Compliance committee to the Governance Board. With this transition complete, a renewed focus on providing professional development opportunities for members was achieved. The committee continues to provide education and guidance for members' professional development and create opportunities for members to achieve development credits by attending sessions and online.

The K-12 Committee was active this year in its continuing role to liaise between APEGS and the school systems. Activities had a planned geoscience focus to grow and strengthen those connections. The committee attended career fairs across the province to promote engineering and geoscience as career paths. The committee also worked diligently to standardize documentation and funding processes to achieve better efficiencies.

The Student Development Committee has again represented APEGS in our support of students at the University of Saskatchewan and University of Regina. APEGS supports students in the four programs, engineering and geoscience, at both universities through per capita funding that students apply for in which the Student Development Committee directs.

The Student Development Committee attempts to allocate sponsorship funds

such that professional development opportunities are maximized. Typical priority sponsorship activities include international student design competitions and attendance at key conferences with reporting back to the home university. The committee also revised the funding, evaluation, scoring and reporting process for students to better align with APEGS priorities and initiatives.

The Environment and Sustainability Committee monitors and investigates environmental and sustainability issues that have the potential to impact the professions through the way we practise or through the public's expectation of the professions.

The committee provides knowledge to members to assist them in adopting practices that resolve these issues. The committee has been active this year continuing to support linkages with other committees by liaising with the PDC, SDC and K-12 committees, submitting topics of environmental importance to The Professional Edge committee and assisting in the awards process.

I would like to thank all of the committee members for their work and commitment to APEGS. It has been an honour to serve as the Chair of the Education Board this past year and support the initiatives of these committees and their members.

Respectfully submitted,

Kristen Darr, P.Geo.  
Chair

## Professional Development Committee

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The Professional Development Committee (PDC) promotes and encourages the professional growth and continuing education of all members of APEGS. We do this by offering members various opportunities to obtain professional development credits. We also educate members on the requirements of the continuing professional development (CPD) program and the need to stay current in their chosen field of practice.

With the adoption at the 2018 business meeting of a bylaw requiring reporting as well as other changes to CPD, including a minimum annual ethics content, the new program became effective on January 1, 2019. The Spring and Fall Professional Development (PD) Days remain central to the PDC's activities as they provide the membership with an opportunity to meet other members outside their usual activities and to obtain CPD credits.

The sessions are charged at a break-even rate resulting in professional development opportunities at a cost lower than typical market value. Member feedback on sessions attended is actively sought and is used as guidance on planning future events. To provide improved access to members, the Spring PD Days and other learning opportunities are being planned for locations outside Regina and Saskatoon. A live ethics webinar was held in Lloydminster this past spring, a communications course was held in Moose Jaw and the 2020 Spring PD days will be held in Yorkton.

In previous years, committee members participated on the Annual Meeting Planning Committee, which included aiding in development of the Annual Meeting PD Track Sessions. For the upcoming Annual Meeting, this task has been done by the PDC with the assistance of the Geoscience Committee.

The practical leadership program introduced in 2018, conducted by the Centre for Technical and Engineering Leadership (CTEL), has been very successful. The program consists of a series of four-hour courses with three levels of certificates - silver, gold and platinum. The level awarded depends on the number of courses attended and enables earning continuing education credits from the Engineering Institute of Canada. The first platinum level award was earned by a member at the 2019 Fall PD days. Current plans are to offer CTET courses in an on-going basis at PD Days.

Vocalmeet, an online, web-based learning system provider, has been providing an ethics course customized for APEGS. It has been available to all members since April 2019 at no cost. A second module has been developed with implementation planned for April 2020. These one-hour modules provide members with another option to meet the annual one-hour verifiable ethics

requirement, in addition to sessions offered at the Annual Meeting and PD days.

Assembly of a library of ethics examples is nearing completion, with the intent to make them available to APEGS committees to provide a basis for ethical moments held at the start of meetings.

On behalf of the committee, I wish to thank the APEGS staff for their invaluable help with meetings, PD Days, management of documents, scheduling and other activities. I also wish to thank the committee members for their thoughtful and energetic work on committee matters.

Respectfully submitted,

Robert E. Cooper, P.Eng.  
Chair

## Student Development Committee

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The Student Development Committee (SDC) is tasked with promoting and encouraging the development of engineering and geoscience students at the University of Regina and University of Saskatchewan.

Through the support of student activities and initiatives, the SDC encourages the continued growth and development of individuals who will one day become members of APEGS and be responsible for exemplifying the principles of a professional engineer and/or geoscientist.

In 2019, the SDC sponsored 75 student-led activities, which is a 21-per-cent increase since 2018 and a 29-per-cent increase since 2017. The total requested funding for 2019 applications surpassed \$300,000, which is a 33-per-cent increase since 2018 and a 100-per-cent increase since 2017. The full list of events sponsored by the SDC can be found in the tables on pages 26-27.

As part of the APEGS value proposition, the SDC continues to pursue new initiatives that align with APEGS' objects, vision, mission, values and focus areas.

These initiatives include:

- Increased engagement with women pursuing engineering and geoscience.
- Increased engagement with Indigenous peoples pursuing engineering and geoscience.
- Strategic operations planning to better understand resource allocation.
- Proposal regarding the creation of an APEGS student membership.

On behalf of the committee, I would like to extend my appreciation to the past Chair of the committee for his service from 2017-2019. I would also like to thank members of the committee, APEGS staff and other volunteers for continuing to share their time and talents with the SDC.

Respectfully submitted,

Brad Lulik, Engineer-In-Training  
Chair

## Group Sponsorship and Grant Funding

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### U OF S ENGINEERING SPONSORSHIP: \$97,300 GRANT: \$10,000

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2019 Canadian Mining Games	IEEE Illumination Conference 2019
2019 Canadian National Steel Bridge Competition (CNSBC)	Industry Tour 2019
30 by 30 Fall Luncheon*	Interactive Mini Mars Rovers - VR Experience - Spectrum 2019
30 by 30 Winter Luncheon*	Prosthetic Arm Project
2019 Student Steel Bridge Competition (SSBC) - National Finals	SAE Aero Design East
Alberta Energy Conference	Safety Days*
ASABE 1/4-Scale Tractor International Student Design Competition	Saskatoon Engineering Competition
Canadian International Rover Challenge (CIRC) 2019	SPE Industry Tour
Mozambique Canada Maternal Health Project	Spectrum 2019
CFES Conference on Diversity in Engineering	TACET (Total Aural Communication Experience Translator)
CFES Congress	University Rover Challenge (URC) 2019
CFES President's Meeting	USSU Project Symposium
Chemical Engineering Graduation Banquet	WESST Annual General Meeting and Retreat
Formula SAE Lincoln 2019	WESST Executives Meeting
GearUP*	WESST Western Engineering Competition
Hand Rehabilitation Device	2020 Organizing Committee
Hard Hat Ceremony*	What is Engineering*
Honour Pin Ceremony	World Mining Competition

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### U OF R ENGINEERING SPONSORSHIP: \$42,360 GRANT: \$6,500

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2019 Industry Mixer	ASHRAE Winter Conference
30 by 30 Brunch	Baja SAE International - Baja Competition
30 by 30 Wine Night	Boundary Dam Tour
ASHRAE 2019 Building Tours	Canadian Engineering Competition – programming team
ASHRAE AutoCAD Training Event	Canadian Society for Civil Engineering Annual Conference
ASHRAE Energy Modeling Training	CFES Congress
ASHRAE Industry Networking Event	
ASHRAE Resume Writing/Review Session	

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CFES Presidents Meeting	SPE's Annual Technical Conference and Exhibition (ATCE)
Conference on Diversity in Engineering	
CSCE Career Night	Star Blanket First Nations Project
CSCE URegina Popsicle Stick Bridge Competition	UBC Project Airlock Competition
Drilling Rig Tour	WESST AGM & Retreat
Global Engineering Competition	WESST Executives Meeting
Great Northern Concrete Toboggan Race 2019	Western Engineering Competition
Honour Pin Ceremony	What is Engineering*
IEEE Student Branch Retreat	World Skills Competition in Kazan 2019.
IEEE Youth Outreach	World Skills training
IEEE Women in Engineering conference	xChange 2019: Engineers Without Borders National Conference
National Engineering Week National qualifying game, Skills Canada Halifax 2019	Year 1 - 4 Reception
Project Day* Regina Engineering Competition	

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#### **U OF S GEOSCIENCE SPONSORSHIP: \$23,200 GRANT: \$1,250**

AME Roundup 2019	Western Interuniversity Geoscience Conference (WIUGC) 2019
Canmore Trip 2019	
Resources for Future Generations Conference (RFG) 2019	Western Interuniversity Geoscience Conference (WIUGC) 2020 organizing committee
Sask Strat 2019	Year End Banquet 2019
Prospectors & Developers Association of Canada (PDAC) 2019 Conference	World Mining Competition

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#### **U OF R GEOSCIENCE SPONSORSHIP: \$9,400 GRANT: \$1,250**

AME Roundup 2019	Western Interuniversity
Earth Ring Ceremony	University Geosciences Conference (WIUGC)
Prospectors and Developers Association of Canada Conference 2018	World Mining Competition
Student Industry Geoscience Roundtable	

\* Event organized by the Faculty of Engineering at the University of Regina or the College of Engineering at the University of Saskatchewan.

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## **K-12 Committee**

The mandate of the K-12 Committee is to promote and encourage science, technology, engineering and mathematics (STEM) education to students from kindergarten to Grade 12, their parents and educators by providing funding for communication and participation in relevant events and activities.

The committee continued its efforts to strengthen its focus in 2019. In preparation for the planned geoscience focus by APEGS for 2020, we have been working hard to grow our connections with the geoscience community and include more geoscience materials in our displays to highlight these potential careers for students.

In 2019, the committee developed some new standard documentation for career fairs and updated the career fair booth materials, including a presentation that we were able to deliver at a number of the events.

We were thrilled to have enough volunteers to allow us to participate in the following career fairs:

### **Stepping Stones Career Fair in Regina**

- Try a Career (three-day event) in Balgonie
- Career Showcase at the Saskatchewan Science Centre
- Assiniboia Career Fair
- Career Expo in Swift Current
- Career Exploration in Yorkton
- Tommy Douglas and Bethlehem High School Career Fair in Saskatoon

We would like to thank those members who took time to interact with the students at these events. If you are interested in contributing to these efforts to encourage young people to choose engineering or geoscience for a career, make sure you select the relevant options in the volunteer preferences in your online APEGS profile. Even when there are not committee positions open, we always need people to tend booths at career fairs, judge at student competitions and participate in other events.

### **The K-12 Committee also supported or attended the following groups, events or activities:**

- Saskatoon Scholastic Chess Association (funding to attend the Canadian Chess Challenge in Vancouver).

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- Saskatoon Association of Science Fairs.
  - Safe Drinking Water Foundation (funding to purchase school kits).
  - Cardboard Boat Races through the Saskatchewan Industry Education Council (funding to help with supplies).
  - Saskatchewan Geological Society Open House public lecture program.
  - Thom Collegiate Robotics Team (funding to support their trip to the First Robotics World Competition in Houston).
  - First Robotics Saskatchewan.
  - Rossignol High School Robotics Team.
  - Society of Women Engineers (SWE) Convention in Anaheim.
  - Canadian Geoscience Education Network Saskatchewan (CGEN-SK) Annual Meeting.
  - SciFi at the University of Saskatchewan (funding to support their camp programs around the province).
  - EYES at the University of Regina (funding to help them deliver their new All Girls Engineering Club).

Near the end of 2019, the committee finalized a change to its funding request evaluation procedure which now involves review of requests only twice per year, in an effort to ensure that the process is efficient and fair.

I would very much like to thank all the members of the K-12 Committee for their enthusiasm and continued commitment as we continue to work through changing priorities and procedures, and the APEGS staff for all of their work to make sure that all these things happen smoothly. The K-12 Committee also thanks other committees and task groups for their collaboration on various projects. We look forward to another busy and successful year in 2020.

Respectfully submitted,

Tara Zrymiak, P.Eng., FEC FGC (Hon)  
Chair

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## Environment and Sustainability Committee

The Environment and Sustainability Committee helps facilitate professional development (PD) opportunities by raising awareness of environmental and sustainability issues, promotes such considerations in APEGS' and member actions and provides resources to respond to inquiries from Engineers Canada, Geoscientists Canada or other associations on related matters.

The committee keeps abreast on current issues to determine where it can provide leadership to the APEGS membership on safeguarding the public interest with regard to the environment and sustainability. Committee members work in diverse industries across Saskatchewan, which provides a broad range of expertise.

In 2019, the committee liaised with the Professional Development Committee and Annual Meeting Planning Committee on related PD sessions for the spring and fall PD days and annual general meeting.

Event sponsorships were provided for the RCE Saskatchewan Sustainability Recognition Awards, the Rob Dumont Energy Management Awards and the Build SASK Green Conference.

Committee members also engaged with engineering and geoscience students at the University of Saskatchewan, through the RBC Future Launch Career Meetups (allowing students to engage in professional conversations with potential employers while learning about their career journey, career choices and insights, that can help students navigate the current and future world of work).

Respectfully submitted,

Kevin Hudson, P.Eng., FEC  
Chair



## University of Saskatchewan Senate

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The Senate of the University of Saskatchewan is part of its tricameral governance structure, in which the senate (public issues), the university council (academic issues) and the board of governors (financial issues) provide oversight and guidance to the university administration.

The senate is made up of 119 elected and appointed members and meets twice annually - in April and October. Elected members are chosen by alumni, both regionally and at large. Appointed members, such as your APEGS representative, are chosen by their organization or nominated by government or the university and approved by the senate.

There are six committees of the senate and the chancellor of the university is the chair. Committees include: executive, membership, nominations, education, honorary degrees and the roundtable on outreach and engagement. The current chancellor, Grit McCreath, was appointed in 2019 replacing Roy Romanow in July.

Highlights of interest from senate and university activities from the past year are summarized as follows:

- Enrolment of women in the College of Engineering continues in the range of 20 per cent, below the APEGS stated goal of 30 per cent of registered professionals by 2030. However, somewhat broader equity is starting to be realized.
- Undergraduate enrolment in the College of Engineering increased to approximately 1,680 and total enrolment is approximately 2,180. This increase, and the university plan projected 2025 increase of 22 per cent, underscores the need for more appropriate engineering lab spaces. A plan to meet these needs is being developed under the guidance of Dean Dr. Suzanne Kresta, P.Eng.
- A promising redesign of the first-year engineering program is developing.
- Undergraduate enrolment at the university is up 1.6 per cent to almost 19,500, with total enrolment at 24,925. Increasing numbers of Indigenous students (6.1 per cent) and international students (5.5 per cent) have a measurable influence on growth as do additional seats in some programs and remote program offerings.
- The university has seen success in the development of strategic partnerships and outreach programs with and through; the City of Saskatoon, Saskatoon Tribal Council, the Prince Albert campus, northern legal training with the

Justice Partnership and Innovation program and the B.Ed. program in Cumberland House.

- The Global Water Futures program, led by the university, continues to garner significant international recognition.
- The 20th anniversary of the Canadian Light Source was celebrated this year.
- President, Peter Stoicheff's Sustainability Council, advising on the advancement of the university sustainability agenda, is active.
- Dr. Brad Polischuk P.E., vice president Research and Development with Hologic was the 2020 CJ McKenzie distinguished lecturer.

Further information/details may be found at [www.secretariat.usask.ca](http://www.secretariat.usask.ca).

Respectfully submitted,

Bert Munro, P.Eng., FEC,  
FGC (Hon)  
APEGS Representative

## University of Regina Senate

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The University of Regina senate is made up of approximately 100 members, including university officials, government officials, heads of federated and affiliated colleges, deans, 14 representatives of graduates from 12 electoral districts, six student representatives and representatives from approximately 40 professional/occupational organizations such as APEGS.

Because of its broad public representation, the senate has been described both as the university's window on the world and the world's window on the university.

Its functions have to do with the academic welfare of the institution. Most of the broader issues of academic policy within the university are reserved for its approval. In another role, it acts as an ultimate court in academic affairs. The senate receives recommendations from the U of R council on those areas for which senate decisions are required.

### **The University of Regina senate met three times in 2019. A summary of the year's highlights are:**

- Pam Klein succeeded Dr. Jim Tomkins as chancellor of the University of Regina. Chancellor Klein was formally installed at convocation on October 18, 2019.
- The University of Regina has seen its largest student enrolment increase in 37 years. Enrolment at the University and Federated Colleges as of the end of the fourth week of classes for Fall 2019 was 16,501 students – up 6.0 per cent over the previous year and up 41 per cent from the 11,664 students registered in Fall 2008. This marks the 11th consecutive year of enrolment increases and the ninth consecutive year of record enrolments – which is a testament to the increasingly important role the university plays in our province.
- Enrolment in the faculty of engineering, as of the end of the fourth week of classes for Fall 2019, was 929 students – down 15.5 per cent compared to the previous year. This decline in enrolment is believed to be due to the slowdown in the oil industry.
- At the 45th annual spring convocation, 2,221 degrees, certificates and diplomas were conferred on 2,093 students.
- The university balanced its 25th consecutive budget, which is a testament to the continuing strong financial management of the institution. As part of the university's 2019-20 budget, tuition fees were raised by 2.8 per cent on

average. Recognizing the impact tuition increases have on students, the university worked to keep this increase to a minimum. University of Regina tuition remains below the national average.

- University of Regina was awarded \$4.4 million in federal NSERC funding for scientific research, supporting 32 faculty members and their students.
- Dr. Esam Hussein, Dean of the Faculty of Engineering and Applied Science, received the Outstanding Achievement Award from the Association of Professional Engineers and Geoscientists of Saskatchewan.
- The College Avenue campus revitalization is nearly complete, preserving the campus for another century of use. The College Avenue building has been open for a year, the heritage lecture hall has been renovated and Darke Hall is scheduled to re-open in early 2021 thanks to the partnership with Conexus and tremendous public support. The project recently received a 2019 Lieutenant Governor of Saskatchewan Heritage Award for conservation of historic places.
- The University of Regina has identified two key fundraising priorities for the future as it examines the feasibility of a new capital fundraising campaign. The number one capital fundraising priority is the construction of a new building for the Faculty of Business Administration. This will help alleviate capacity pressures on several other facilities, increase graduate student enrolment, facilitate programs for Indigenous students and entrepreneurs and extend the faculty's executive development programming. The number one operational fundraising priority is the development of a Child Trauma Research Centre that will help the province better understand, address, treat and prevent childhood trauma.

With the timeframe for the university's 2015-2020 strategic plan coming to a close, it is a key priority throughout 2019-20 to develop a new strategic plan to guide the institution's operations and development for the next five years and beyond. The facilitation team will be seeking broad input from the university community and beyond.

Respectfully submitted,

Rick Kullman, P.Eng., FEC, FGC (Hon)  
APEGS Representative

## Engineers Canada Director's Report

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Engineers Canada is the national organization of the 12 provincial and territorial associations that regulate the practice of engineering in Canada and license the country's 300,000 members of the engineering profession.

Engineering is a self-regulated profession. Engineers Canada exists to support APEGS and the other provincial and territorial regulatory bodies, to advance the profession in the public interest.

The first year of 2019-2021 Strategic Plan for Engineers Canada was completed in 2019. The strategic plan is a 100 per cent plan for a three-year period ending in 2021. The plan consists of strategic priorities, operational imperatives, internal enablers and board responsibilities. A number of the strategies to be completed within the strategic plan were completed and accepted by the board in 2019.

Four of the strategic priorities outlined in the current strategic plan include:

- SP1: Accreditation Improvement Project.
- SP2: Accountability in Accreditation.
- SP3: Recruitment, retention and professional development of women in the profession.
- SP4: Competency-Based Assessment Project.

Good progress was noted on these strategic priorities with all of the intended outcomes being achieved on time or projected to be completed within the defined schedule. A copy of the strategic plan can be found on the Engineers Canada website. Planning will begin in 2020 for the next strategic plan which will be approved at the annual meeting in May of 2021.

A Funding Task Force was created at the January 2018 board meeting to address concerns by a number of regulators regarding the disproportionate percentage of revenue received by Engineers Canada from affinity agreements and the perceived inequity amongst the regulators in how this funding is contributed to Engineers Canada from various regions across the country.

In May 2019 the task force completed the submission of a report with the following recommendations that the Engineers Canada board:

- Direct the Finance, Audit and Risk committee to develop a policy that will limit the growth of the operational budget (excluding major projects) of Engineers Canada to an amount not greater than the rate of inflation, for consideration by the board at its meeting of October 4, 2019.

- Direct the Finance, Audit and Risk committee to develop a policy that will cap the unrestricted reserve of Engineers Canada at \$2 million (subject to periodic review) and that any excess of this amount be distributed back to those regulators participating in the Engineers Canada Home and Automobile Insurance Program in a proportion equivalent to the total written premium value attributable to each regulator, for consideration by the board at its meeting of October 4, 2019.
- Recommend to the members, at their meeting of May 23, 2020, that the Engineers Canada bylaw be changed to increase the per capita assessment by two per cent commencing in 2022 and increase by a further two per cent every year thereafter.
- Stand down the Funding Task Force with thanks.

The motion for item a) was approved. Item b) was referred to the new Finance, Audit and Risk Committee to determine the recommended reserve amount and whether excess revenues could be rebated to all regulators rather than just those participating in the TD Home and Auto Affinity Program. Item c) was deferred to allow a determination on how the distribution of excess funds could be completed first. Item d) was approved and the Funding Task Force was stood down.

In the fall, APEGA withdrew from the TD Home and Auto Affinity Program. Affinity revenue from policies held within Alberta will remain in their entirety with Engineers Canada, but the value of the APEGA portion of the proceeds will need to be spent on continued promotion of the program within Alberta.

Nova Scotia considered withdrawing from the program but decided to stay. In response to the withdrawal and threatened withdrawal from the program, the Engineers Canada board approved a change in the distribution of proceeds from the program with 90 per cent of the affinity revenue from new policies to be attributed to the participating regulators and 10 per cent going to Engineers Canada.

Subsequent to the changes in the TD Home and Auto Affinity Program, some of the action items to be completed by the Finance, Audit and Risk committee were deferred to February 2020.

On December 9, 2019 the budget for 2020 was reviewed and the following motions were carried:

- That the 2020 operational budget of \$11.3 million in revenue and \$12 million in expenses be approved.

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- That the 2020 capital budget of \$107,200 be approved.
  - That the CEO be directed to use \$838,000 from reserve funds on the following significant projects: Accreditation Improvement Project, Space Program, International Institutions and Degrees Database improvement project, Competency-Based Assessment Project and the National Membership Database Improvements.

Engineers Canada is funded in part by a \$10.21 per member assessment provided by the regulators across Canada.

The Canadian Engineering Accreditation Board (CEAB), a standing committee of the Engineers Canada Board, is the only body that accredits Canadian undergraduate engineering programs that meet the profession's high education standards. Graduates of those programs are deemed by the profession to have the required academic qualifications to be licensed as professional engineers in Canada. The CEAB offers advice to universities developing new engineering programs to help those programs meet accreditation criteria. The CEAB also assesses the equivalency of the accreditation systems used in other nations relative to the Canadian system, and monitors the accreditation systems employed by the engineering bodies which have entered into mutual recognition agreements with Engineers Canada.

The Canadian Engineering Qualifications Board (CEQB) develops national guidelines on the qualifications, standards of practice, ethics and professional conduct expected of professional engineers. The CEQB is also responsible for the Engineers Canada Examination Syllabus and the Engineers Canada International Institutions and Degrees Database. The associations use the syllabus and database as guides to develop appropriate suites of technical engineering examinations for international engineering graduates seeking licensure in Canada to ensure those individuals meet the standards for admission into the Canadian engineering profession. The work of the CEQB remains well aligned with the ends policies of Engineers Canada.

The Engineers Canada website ([www.engineerscanada.ca](http://www.engineerscanada.ca)) is mobile-friendly and has been designed to make it easy to find information. On the home page, users can subscribe to the weekly Engineers Canada newsletter. On the media page, users can sign up to receive engineering-related news in a daily media report. To learn more about what Engineers Canada is doing, you can also follow on Twitter, LinkedIn or Facebook.

My participation in Engineers Canada has been interesting and memorable. During 2019 I have been an active member of the Human Resource Committee and past-chair of the Funding Task Force which concluded in May.

I would like to thank the APEGS volunteers on the boards of the CEAB and the CEQB for their diligence and significant efforts in support of Engineers Canada and the profession of engineering. I would also like to thank all APEGS staff and council for their support of me and of Engineers Canada during the past year. It has been a privilege and a pleasure to serve as APEGS appointed director.

Respectfully submitted,

Dwayne Gelowitz, P.Eng., FEC, FGC (Hon.)  
Director

## Geoscientists Canada Director's Report

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Geoscientists Canada ([geoscientistscanada.ca](http://geoscientistscanada.ca)) is the national organization whose purpose is to engage with and facilitate cooperation among its members, who are the self-governing professional associations (constituent associations - CAs) that regulate the profession of geoscience in each of the jurisdictions in Canada. Quebec is presently not a member.

Geoscientists Canada coordinates development of high national standards of admissions, competency, practice and mobility to ensure that Canada and the public interest is served by a skilled, reputable and accountable geoscience profession. Geoscientists Canada represents the CAs nationally and internationally.

In Saskatchewan, practicing geoscientists are required to register with APEGS and the designation P.Geo. can only be used by geoscientists who are licensed members in good standing. Certification trademarks for professional geoscientist and P.Geo. were registered in 2019, and licensing agreements with all the CAs are in development.

At the annual general meeting held in Toronto, Jeff Parks, Director from Nova Scotia, became president, taking over from Mark Priddle (Ontario). Michael Parkhill (New Brunswick) was elected as the president elect. Yuri Kinakin (Northwest Territories and Nunavut) was elected treasurer on the executive committee. Two new directors were appointed during the year: Caroline Anstey-Moore (Newfoundland and Labrador) and Doug Bell (Manitoba).

The Canadian Professional Geoscientist Award winner for 2019 was Dr. John Clague, P. Geo., FGC, FEC (Hon.), nominated by EGBC. This was to recognize his outstanding research in quaternary geology and exemplary public communication of natural hazards.

APEGS nominated two people for Fellow of Geoscientists Canada (FGC/FGC (Hon)), which were approved (Gary Delaney, P.Geo. for noteworthy service to the geoscience profession and Stormy Holmes, P.Eng, for assuming office as president of one the CAs of Geoscientists Canada).

The work plan for 2019 continued some of the priorities identified by the CAs in the 2015 Implementation Plan. The work was divided into activity that is solutions focused (directed at consistency of admissions) and awareness/advocacy focused (directed at improving awareness of the importance of the profession and its requirements).

The renewal of the plan was completed during 2019, with new initiatives prioritized by the CAs that reflect current issues of interest. This will guide the work of Geoscientists Canada on behalf of the members over the next few years.

### Solutions Focused

The Canadian Geoscience Standards Council (CGSC) is a standing committee of Geoscientists Canada (Janis Dale, P.Geo., is the Saskatchewan representative) and provides guidance to the CAs on matters relating to academic and practice requirements for professional registration. An objective is to encourage the adoption of common standards for geoscience registration to facilitate the transfer of members of the CAs from one jurisdiction to another in Canada.

The primary work of CGSC in 2019 was focused on the Economic and Social Development Canada (ESDC)-funded (\$589,000) Admission Support Tools (AST) project – Phase II, which started in 2018. The project is on budget and will be completed early in 2020.

It was designed to develop tools to support CAs in their registration of Geoscientists via two projects:

- a) establish a more flexible, transparent and streamlined method of assessing professional experience through the development of competency indicators (Work Experience Competencies project).
- b) develop an online assessment tool (Pre-Arrivals Tool project) is largely to aid internationally-trained geoscientists in navigating the assessment process for registration as a professional geoscientist in Canada, but will also be a useful tool for Canadian geoscientists. There has been excellent progress during 2019, with the leadership of the project manager, Keith Johnson, a consultant with significant experience with public policy and regulatory issues who has worked with Geoscientists Canada and CGSC in the past.

The Work Experience Competencies project included the development of 29 competencies, deemed important to have been met via work experience, a scoring rubric to assess the level that they are met for entry to practice and an online platform, with associated guidance documents for applicants, validators and assessors in collaboration with EGBC.

The competencies fall within four categories: scientific method, geoscience practice, professionalism and complementary, with the latter being related to communication and project management. Fifteen participants from constituent associations from across the country successfully completed the online pilot. The next stage is to bring the online competency-based assessment tool to full launch stage.

The Pre-Arrivals Tool project was completed during 2019. Meta Strategies were the consultants that developed the infrastructure, content and testing of the

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website, with the assistance of former Geoscientists Canada CEO, Oliver Bonham. Information from the CAs was collected to provide content for the online tool, which will allow potential applicants, particularly from overseas, to assess where they might stand regarding education and experience prior to arrival in Canada. The online tool was released in a soft launch on December 2, 2019 and can be accessed at [www.geoscienceincanada.ca](http://www.geoscienceincanada.ca).

The Professional Practice Committee has been active for a year. Its purpose being to review, consider and provide opinion on matters of geoscience professional practice and to review, document and develop geoscience professional practice guidelines for potential use by CAs, practitioners and other stakeholders. The committee is reviewing and assessing the continuing professional development practices from across the country, developing a national statement of ethics and aims to post or provide links to current standards and guidelines available from CAs.

### **Awareness/Advocacy Focused**

Geoscientists Canada, with the support of the Canadian Federation of Earth Sciences, prepared a booklet *Geoscience and Canada – Understanding our Earth: The vital role of Canada's geoscientists*, which provides insight into the role geoscience plays in society, including but not limited to the economy, energy, minerals, water, engineering, environment, geohazards and climate, using Canadian examples.

It was designed to be accessible to decision makers at all levels. It was released in June 2018 and can be accessed as a PDF at <https://geoscientistscanada.ca/resources/publications/>. It continues to be well received. An additional print run was completed in 2019, which has been distributed to CAs, universities and decision makers.

The Qualified Persons (Your Career and Public Reporting) short course, developed by the Securities Committee in 2016, in conjunction with the CAs and provincial securities commissions, is a one-day short course outlining the definition of a QP, based partly on the requirements of NI 43-101 and NI 51-101. This course continues to be revised and will also be advertised to early career geoscientists and experienced practitioners as refreshers. Geoscientists Canada is also working with the Canadian Securities Administrators to determine ways of addressing issues with the quality of some NI 43-101 documents and the QP short course will be an important tool.

Representatives of Geoscientists Canada are involved with international associations, to provide advice on professional practice in Canada and to keep abreast of activity that may be relevant to the CAs. All involve minimal time and cost.

These include:

- a) the American Institute of Professional Geologists (AIPG) and the National Association of State Boards of Geology (ASBOG) in the United States.
- b) the European Federation of Geoscientists (EFG) to provide perspectives on professional registration within the Canada-European Union Trade Agreement (CETA) and the EU-funded INTRAW (International Raw Materials Observatory) project.
- (c) the Competent Persons Task Force as part of the United Nations Framework Classification for Fossil Energy and Mineral Reserves and Resources; and d) the International Union of Geological Sciences (IUGS) Task Group on Global Geoscience Professionalism.

### **Budget and other Geoscientists Canada Activity**

A small deficit was budgeted for 2019, although the unaudited finances suggest it will be smaller than anticipated. A deficit budget has been approved for 2020. The member assessment fee charged to CAs has not increased since 2012, although operating expenses, including the salary of two staff, have increased. It has been recommended to all CAs, including APEGGS, that an increase in \$5 per head would be appropriate. This will be initiated in 2021.

The board of directors approved a Board Diversity Policy to guide choice of future nominations for director positions from the CAs, and an International Organization Relationship document to clarify points to consider when developing external relationships. In addition, the terms of reference for the executive, governance, securities and awards committees underwent minor revisions and were approved.

Respectfully submitted,

Kevin M. Ansdell, P.Geo., FGC, FEC (Hon.)  
Director



I am pleased to report to APEGS the activities and accomplishments of the College of Engineering over the past year.

Our achievements in the past 12 months reflect collective pursuit of excellence in engineering education. We continued bridging our academic programming to industry. That link will be especially evident in the newly created engineering co-op internship program with numerous benefits to our students and industry partners.

We have also established a certificate in technological innovation which will provide students with business fundamentals and teach them the processes necessary to design and commercialize technologically-innovative solutions.

Tremendous progress has been made on the redesign of the first-year program, as we are wrapping up consultations and preparations and head into the phase of approval.

On the research and discovery front, the College continues to be committed to undertaking research endeavours that reach across traditional engineering disciplines and work in the areas of great societal impact in our province.

The five areas of strategic importance: engineering for agriculture, environment, health, sustainable energy and mining and minerals, might have local character, but the work of our faculty and researchers in these areas has had national and global recognition, and goes to prove that we truly are creating 'the engineers the world needs'.

### Teaching and Learning

#### Academic programs

The College is recognized for the high quality of its programs, which include eight fully accredited undergraduate programs, seven graduate programs and now two professional certificates. Students can complement their technical studies with the certificate in professional communication, as well as the certificate in technological innovation and entrepreneurship.

Our commitment to student success goes beyond providing education on engineering fundamentals, and also includes exposure to industry in the form of mentorship of various types, and hands-on, relevant work experience. As one example, our transformed co-op internship program will provide students with increased access to work-integrated learning opportunities.

Building on our already successful professional internship program, the new co-op internship program has been enhanced in the areas of pre-employment

preparation, on-site mentorship and post-employment reflection. With the program now approved by the University, our dedicated staff is developing the required courses and building industry partnerships in order to achieve our goal of doubling our current number of placements.

While we are fully engaged in the complete redesign of our common first year so it becomes truly learner-centered and amongst the most innovative in the country, we continue to make improvements in the upper years of our programs. Over the last year alone, we have created seven new courses across the various programs that will expose students to important advances in the current state of knowledge.

### College and Program Enrolment

#### Undergraduate enrollment

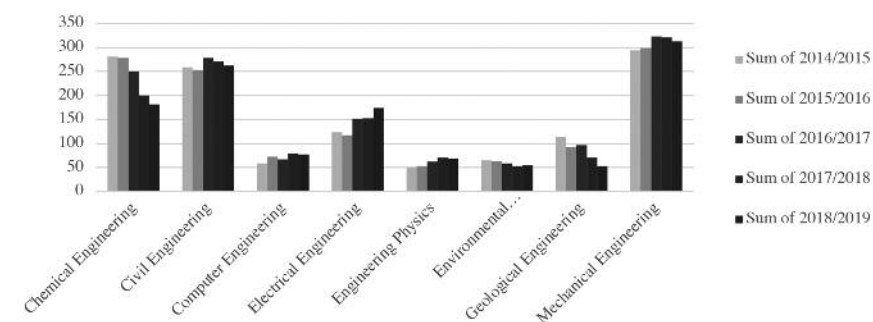
The 2018/19 undergraduate enrollment was 1,706 students in eight programs (520 undeclared, 182 in chemical, 263 in civil, 77 in computer, 174 in electrical, 69 in engineering physics, 55 in environmental, 53 in geological and 313 in mechanical engineering).

In terms of diversity, female, Indigenous and international students accounted for 19 per cent, 4.8 per cent and 19.3 per cent of our undergraduate student body, respectively.

Demand for our undergraduate programs remains strong, with several programs experiencing noticeable growth over the last couple of years. Our civil and mechanical engineering programs have remained heavily subscribed, while the interest in electrical and computer programs has increased (Figure 1).

**Figure 1: Program Enrolment in last 5 years (per year)**

Source: University Data Warehouse



## Undergraduate Recruiting

Although the demand for our College remains stable, efforts to increase diversity of our student body continue. With the focus on more strategic enrolment growth and diversification, we have participated in or organized various outreach initiatives and student recruitment events, from What is Engineering? See Your Future, to numerous career fairs across the province.

We are working to recruit and retain a broader range of students, bringing a richer variety of experiences and perspectives into the classroom.

- The recent removal of Calculus 30 as an undergraduate admission requirement will enable easier access for rural and northern students, while at the same time permit prospective students to explore a broader range of high school electives.
- The College's Indigenous Peoples Initiatives Community (IPIC) Access Engineering Access Program provides support to Indigenous students during every stage of their journey toward completing their engineering degrees, including the introduction of academic pathways, university transition training, academic coaching and financial support.
- We have also partnered with the Saskatchewan Polytechnic, signing an articulation agreement that will enable graduates of the Saskatchewan Polytechnic Mining Engineering Technology diploma program to more easily transfer into the Geological Engineering program in our College. As a result, a student can complete both a Sask Polytech diploma and a USask Engineering degree after only five years of study.

## Graduate Student Enrollment

Graduate student enrollment continued to grow. In 2018/19 we experienced a record number of 530 graduate students enrolled (Table 1). Almost half of those students (255) were enrolled in Master of Science degree, while 191 were doctoral students. The rest were completing Master of Engineering programs (63) or postgraduate diplomas (21).

International students made just over 79 per cent of graduate student body, while percentage of female and Indigenous graduate students was 22.6 per cent and 1.3 per cent, respectively.

**Table 1: Graduate Studies Enrollment (by program)**

REPORTING LEVEL	MAJOR	REPORTING YEAR				
		2014/2015	2015/2016	2016/2017	2017/2018	2018/2019
Graduate Studies	Biological Engineering	21	20	22	24	30
	Biomedical Engineering	55	57	56	52	56
	Chemical Engineering	41	45	52	61	69
	Civil Engineering	82	88	98	110	117
	Electrical Engineering	108	105	111	107	109
	Environmental Engineering	7	6	5	3	2
	Mechanical Engineering	95	110	141	147	147
<b>Grand Total</b>		<b>409</b>	<b>431</b>	<b>485</b>	<b>504</b>	<b>530</b>

Source: University of Saskatchewan Data Warehouse

## Faculty Highlights

Over the past two years, the College has more than doubled its female engineering faculty, representing 15.4 per cent of our P.Eng. eligible academic complement, aligning with the national average of 15.5 per cent.

The College had the pleasure of welcoming a number of new faculty over the last year. We are excited that the following accomplished and dedicated individuals have become a part of our team:

- Xiaodong Liang, B.Eng, M.Eng MSc, PhD, P.Eng., CRC Tier II Nominee (joined the Department Electrical and Computer Engineering).
- Ebrahim Bedeer Mohamed, PhD (Department Electrical and Computer Engineering).
- Jocelyn Peltier-Huntley, BSc, MSc, P.Eng., (School of Professional Development/Mechanical Engineering).
- Tate Cao, MSc, MBA, E.I.T., La Borde Chair in Engineering Entrepreneurship (School of Professional Development).
- Asher Ghaffar, PhD (School of Professional Development).
- Donna Beneteau, MSc, P.Eng. (Department of Civil, Geological and Environmental Engineering).

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- Laura Smith, BSc, MSc, PhD (Department of Civil, Geological and Environmental Engineering).
  - Shaobo Huang, BSc, BEd, MS, PhD, E.I.T., (School of Professional Development/Mechanical Engineering).
  - Joel Frey, BSc, BE, PhD, P.Eng. (School of Professional Development).

We are also proud to share the following faculty accomplishments from the past year:

- Roy Billinton, DSc, Distinguished Emeritus Professor – has received the Institute of Electrical and Electronics Engineers' Power and Energy Society Lifetime Achievement Award.
- Ajay Dalai, PhD, P.Eng. – was granted the title Distinguished Professor by USask as recognition to significant enhancements to his field of knowledge. Prof. Dalai also received \$1.2 million in funding from Western Economic Diversification Canada to enhance and expand his research in biofuels and biochars and to help industry with testing and commercializing biofuel and biochar products.
- Debora Rolfes, MA, MTS – has received USask Provost's College Award for Outstanding Teaching, as well as the Friend of the Professions award from APEGS, and was appointed as the Honorary Fellow of the Engineers Canada.
- Glenn Hussey, PhD, P. Phys., P. Eng., FEC – has been appointed Fellow of the Engineers Canada.
- Akindele Odeshi, PhD, P.Eng. – has been appointed Fellow of the Engineers Canada.
- Terrance Fonstad, BE, MSc, PhD, P.Eng., P.Ag., FEC – served as the President of APEGS.
- Grant Ferguson, PhD, P.Geo., Eng.L. – received Global Water Futures Research Excellence Award and was appointed Centennial Enhancement Chair.
- Venkatesh Meda, PhD, MBA, P.Eng., FCSBE – was made Fellow of the Canadian Society of Biological Engineering, for his outstanding and significant contributions to Agricultural, Food and Biological Engineering, particularly in the areas of post-harvest engineering.

- Safa Kasap, PhD, DSc, P.Eng. – was elected as Fellow Member of The Optical Society (OSA), for outstanding contributions to the research and development of radiation detectors for high-dose high-resolution radiation measurement, x-ray imagers and for understanding optical properties of a wide class of materials.
- Amira Abdelrasoul, PhD, P.Eng. – was among 157 researchers in Canada to be awarded the first New Frontiers in Research – Explorations grants. Dr. Abdelrasoul received her two year, \$250,000 grant to study "Innovative Biomimetic Hemodialysis Membrane Design with Enhanced Biocompatibility and Improved Clearance of Toxic Middle Molecules towards Artificial Wearable Kidney".

### Research and Discovery

Associate Dean Research and Partnerships, Terry Fonstad, Ph.D., P.Eng., P.Ag., FEC, has been appointed to a five-year term and is working diligently to identify new partnership opportunities, new initiatives and new ways for us to work together for the benefit of our province and our peoples.

In follow-up to our major strategic planning activities over 2018-19, we continue to seek engagement with our industry and community partners. In 2019, we hosted two events aimed at better identifying and connecting with opportunities in our city and our province in the areas of the Internet of Things and Smart Cities. We have been working closely with partners like SaskTel and the City of Saskatoon to identify how our researchers can help Saskatchewan become a leader in these areas.

As a result of our Strategic Research Plan consultation process that included stakeholders in industry, government and academia, we are pleased to have identified five key research areas that we believe represent those where we are leading – and should be leading – the province, the nation and the world.

Those five areas are:

**Engineering for Agriculture:** Agriculture continues to be a primary economic driver, and with the University of Saskatchewan being in the centre of 82 per cent of Canada's agricultural land, we must continue to strive to be national and global leaders in agriculture R&D. Areas of focus are in land, environment, and water; crop and animal production and management; and emerging technologies such as imaging, big data and automation.

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**Engineering for Mining and Minerals:** Mining and minerals are another pillar of the provincial economy and Saskatchewan is a global leader in production of minerals such as uranium and potash. Working with partners like International Mineral Innovation Institute (IMII), we are focused on helping bring about innovation in the mining sector in areas such as environment, automation, safety, energy efficiency, as well as geotechnical and related areas.

**Engineering for Health:** Health care and healthy living are crucial to the continued success of our province. Engineering for Health includes a wide number of areas, all striving to either improve our understanding through innovative imaging techniques; improved diagnoses through technologies to support physicians; improved access to health services; design of better medical devices and interventions; development of innovative techniques to produce healthier foods; or addressing environmental issues to improve air and water quality.

**Engineering for Sustainable Energy:** Achieving sustainable energy is a global problem that touches every aspect of our industries, our economies and the way we live. The world needs innovations in sustainable energy. Areas in which we have invested include smart grids and microgrids to help make effective use of alternatives like wind and solar; energy efficiency in buildings and energy systems; bioenergy; and we are also looking at emerging areas like integration of small-scale nuclear power generation.

**Engineering for the Environment:** Engineering for the Environment spans nearly all sectors of the province, from agriculture and mining, to health and social well-being. Stewardship of the soil, water and air are critical to ensuring our industries can continue to thrive while supporting the health and wellbeing of our peoples now and into the future. As such, Engineering for Environment is focused on improving our understanding of the impacts of technology on the land, soil, water and air, as well as developing innovative solutions to mitigating those impacts.

Overall, academic and industrial-partnered research remain a priority for the College of Engineering, as does leveraging federal and other funding to support it. Of note, the Natural Sciences and Engineering Research Council of Canada (NSERC) has recently undertaken a significant revision of their partnership programs, ending the suite of old programs and phasing in the new, streamlined NSERC Alliance Grants program to better serve Canada and our academic/industry partnerships.

The new program significantly expands what kinds of partners are eligible to participate in the cost-sharing of research with NSERC. Previously ineligible non-government organizations, not-for-profits, municipal and provincial government departments, Indigenous communities and various types of community organizations may now be eligible to partner, and the cost sharing models now encourage more collaboration between larger and smaller organizations. While it remains early in the launch, we are greatly encouraged that this new program will support new and stronger research partnerships and broader and bolder research initiatives across the province and country.

### Community Engagement

Community engagement is one of our strategic pillars and we continually work on building and maintaining relationships between our faculty, staff, students, alumni, industry, government and community partners.

### Science Camps and Conferences

2019 marks the 30th Anniversary of SCI-FI Science Camps. Each year, these fun and hands-on science programs reach more than 10,000 youth from all across Saskatchewan through school workshops, summer camps and Saturday science clubs.

In May 2019, SCI-FI Science Camps organized DiscoverSTEM: Girls Science Conference. This unique two-day workshop-based Science, Technology, Engineering and Math conference welcomed girls in grades 7 and up. The workshops (on everything from astronomy to microbiology) were led by women in STEM who are passionate about their fields and shared what they do and why.

Last year started with an exciting USask Spectrum science and engineering expo. The four-day event in January 2019 featured displays, interactive exhibits, workshops, competitions and speakers that explained and showcased scientific, engineering and technological innovations.

Thanks to the persistence of our student organizing team, we were able to host a live-streamed conversation with Canadian Astronaut, David Saint Jacques, from the International Space Station. Members of the USask Space Design Team (U.S.S.T.), who have been working on evolving their rover model over the past five years, were also featured during the event.

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### **CJ Mackenzie Gala of Excellence**

The College of Engineering hosted its 44th annual C.J. Mackenzie Gala of Engineering Excellence on January 21, 2020. Hundreds of alumni, industry partners, faculty and students gathered at this event to celebrate the engineering profession and the achievements of Dr. Brad Polischuk (BE'88, MSc'90, PhD'93), a triple alumnus of our College and the newest inductee to the Alumni Wall of Honour. Dr. Polischuk is the medical device executive with more than 25 years experience, and over 20 published scientific and research papers and seven patents.

We are deeply grateful for the continued sponsorship that the Association of Professional Engineers and Geoscientists of Saskatchewan provides for this event.

### **External Relations Team**

We are pleased to announce that Richelle Kenn has accepted a new position as Major Gifts Officer (MGO) for the College of Engineering in October 2019. Richelle joined the College in December 2018 as a Donor Relations Officer and has become a valued member of the External Relations Team, completing over 30 gift agreements, reconnecting with several hundred donors and supporting Carlene Deutscher in the successful delivery of a number of College events. Richelle has also helped the Engineering Advancement Trust to develop a plan which will reinvigorate and restructure the EAT.

### **Dean's Advisory Board**

A Dean's Advisory Board was established early in the year to better the connections and access to networks between the USask College of Engineering and the external communities, industry, post-secondary institutions and governments. The Board's purpose is to provide insight, perspective, guidance, advice and advocacy on matters related to the College's vision, mission and strategic plan in a manner that is visible and responsive to the needs of Saskatchewan.

The Board convened three times in 2019. There are nine board members:

- Tom Kishchuk, VP Operational Support, Federated Co-operatives Limited.
- Daphne Arnason, Former VP Global Risk Management & VP Internal Audit, PotashCorp.

- Terry Bergan, Former President and CEO, IRD.
- Aaron Genest, President, SaskTech Association.
- Larry Long, VP Operations, Potash Nutrien.
- Mike Marsh, President and CEO, SaskPower.
- Lisa Mueller, VP New Ventures, Razor Energy Corp.
- Rob Norris, Senior Government Relations Officer, Canadian Light Source.
- June Verhelst, VP Construction, Graham Industrial Services Ltd.

### **On the Horizon**

While we celebrate the many accomplishments outlined in this report, we are mindful of ambitious tasks we have set for the year ahead. Our top priorities will be accreditation, approval of the first year redesign and progress toward our new building.

Undergraduate engineering programs in Canada are accredited by the Canadian Engineering Accreditation Board, a standing committee of Engineers Canada. Accreditation of our programs offers many benefits to our graduates, from assurance that we as an institution are meeting the highest standards of engineering education to easier access to licensure.

Accreditation visits of institutions that offer engineering programs occur regularly, typically every six years. Our next visit is scheduled for fall 2020. Preparing for a visit is a massive endeavour which requires collective effort of faculty, staff and students. It is also an opportunity to showcase the improvements we have made over the past six years.

Our first year program will offer a more personalized approach to learning and performance-based advancement. A dedicated team of first year teaching specialists will introduce increased active learning classroom time, enhanced peer-to-peer learning and improved alignment of learning outcomes through the use of focused course modules.

Other innovations include the design of a new integrated suite of chemistry, physics, biology and geology courses specifically tailored to the needs of the engineering profession, as well as more intentional coordination between our math courses and their application in engineering subjects. All of this has required an unprecedented level of cooperation and consultations with partners

from across campus. Limited pilot testing of some modules will take place in the fall of 2020, with the full implementation of the new program scheduled for the 2021-22 academic year.

Finally, we are continuing to build the vision and support for our new building. Our current building is almost 40 years old and cannot keep up with the teaching or research space needs of our growing community. The goal is to have a world-class facility which will serve the College for decades to come, benefit our students and inspire those who will work within its walls.

Respectfully submitted,

Suzanne Kresta, Ph.D., P.Eng., FEC  
Dean

### Introduction

It is my pleasure to provide this report on the faculty's recent achievements.

Our enrollment has stabilized after a few years of continued growth; although we are still seeing a decline in the Petroleum Systems Engineering Program. Our research programs are continuing to receive considerable funding. We are currently in the search process for two professors in Industrial Systems Engineering and a lab instructor in Software Systems Engineering.

The following academic staff members joined the faculty in 2019:

- Dr. SD Jacob Muthu, Assistant Professor Petroleum Systems Eng.
- Dr. Jinkai Xue, Assistant Professor, Environmental Systems Eng.
- Dr. Zhongwei (David) Du, Lab instructor, Petroleum Systems Eng.
- Mr. Ben Lichtenwald, Lab Instructor, Environmental Systems Eng.
- Dr. Golam Kabir, Assistant Professor, Industrial Environmental Systems Eng.

### Enrollment

Undergraduate enrollment based on the fall semester has decreased with 920 students compared to 1125 last fall. The following table presents undergraduate enrollment numbers from Fall 2019:

Undergraduate Students by Major and Gender (Fall 2019)

MAJOR	TOTAL BY MAJOR			DEGREES AWARDED (SPRING & FALL 2019)
	TOTAL	FEMALE	FEMALE (%)	
Electronic Systems Engineering	125	11	9%	18
Environmental Systems Engineering	158	62	39%	59
Industrial Systems Engineering	200	33	16.5%	62
Petroleum Systems Engineering	84	15	18%	65
Software Systems Engineering	118	21	18%	21
Common First Year & Undeclared	222	32	14%	0
Exchange Students	9	4	44%	0
<b>Grand Total</b>	<b>920</b>	<b>178</b>	<b>19.3%</b>	<b>225</b>



Graduate enrollment has increased from 322 to 331. The following table presents graduate enrollment numbers from Fall 2019:

Graduate Students by Major and Gender (Fall 2019)				
MAJOR	TOTAL BY MAJOR			DEGREES AWARDED (SPRING & FALL 2019)
	TOTAL	FEMALE	FEMALE (%)	
Electronic Systems Engineering	47	12	26%	14
Environmental Systems Engineering	79	38	48%	13
Industrial Systems Engineering	84	13	15%	26
Petroleum Systems Engineering	56	15	27%	20
Software Systems Engineering	25	6	24%	6
General Engineering (PHD)	3	0		0
Process Systems Engineering	37	6	16%	13
<b>Grand Total</b>	<b>331</b>	<b>90</b>	<b>27%</b>	<b>92</b>

## Funding

Undergraduate students continue to contribute to the Engineering Equipment Fund, \$200 per semester in four of our programs and \$300 in Petroleum Systems Engineering. The University also provided funding of \$200,000 and the faculty invested additional funds for equipment purchases.

## Research

New external research awards totaled over \$5.3 M including \$3.4M from various Natural Sciences and Engineering Research Council (NSERC) programs.

## Recognition and Achievements

### Noteworthy recognitions since the last report include:

- Software Systems Engineering students, Paul Hewitt, Ian Quach, Taylor Petrychyn and Maksym Zabutnyy placed first in the programming category at the Western Engineering Design Competition.

- Process Systems Engineering graduate students Mohammed Mohamedali and Devjiyoti Nath were recipients of the International Energy Agency Greenhouse Gas R&D Program, Climate Change Travel Scholarship.
- Vinith Gandhi Rajendran, an Environmental Systems Engineering master's student working with Dr Amy Veawab, won the first place for his student poster entitled "Nitrogen- and Sulfur-containing Corrosion Inhibitors for the Potash Industry" in the NACE Northern Area Western Conference, Calgary, February 5-7, 2019. His research is funded by IMII and Mitacs Accelerate.
- Simran Barnwal, a Mitacs intern supervised by Dr. Wei Peng, received the first best paper award for her research paper entitled "Crowdsensing-based WiF Indoor Localization using Feed-forward Multilayer Perceptron Regressor" at the Second International Conference on Computational Intelligence in Data Science (ICCIDS 2019), India, February 21-23, 2019.
- Jaspal Singh Virdi, an Industrial Systems Engineering MASc student working with Dr Wei Peng, received the second best paper award for his research paper entitled "Feature selection with LASSO and VSURF to model mechanical properties for Investment Casing", at the Second International Conference on Computational Intelligence in Data Science (ICCIDS 2019), India, February 21-23, 2019.
- J. Norton (Software and Electronics), Anwit Adhikari (Physics), Vaughn Geber (Software), Hibba Syeda (Industrial), Earl Labios (Computer science, Jay Patel (Electronics ), and Roman Yushchuk (Psychology and Computer science) were the winners of a year-long competition at the UBC Mars Project Airlock Challenge at the University of British Columbia.
- The U of S Robotics team (Danish Hasan, Karim Ait-Allaoua and Herman Muller) represented Canada at the international World Skills competition in Kazan, Russia, near the end of August.
- APEGS 2019 Awards:
  - Nathan Bruce (BASc 2014, MASc 2016), Environmental Excellence Award.
  - Dr Esam Hussein, Outstanding Achievement Award.
- Regional Centre of Expertise (RCE) Saskatchewan Education for Sustainable Development recognition 2019 awards:
  - Nicole Cripps, Brady Eurich, Brett Thomas and Kelvin Ng "Utilizing Landfill Waste Heat as a Heat Source for a City of Regina Facility".
  - Dr Stephanie Young, Rebekah Vasylyeva, Shara Khan and Farhima Rahman "Conceptual Hotel Based Greywater Reclamation System".

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## Department of Geological Sciences, University of Saskatchewan

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- Dr Stephanie Young, Joeffry Domingo and Matthew Palmarin "Reclamation of Amine-Rich Wastewater from Carbon Capture and Storage Systems".
- Dr Stephanie Young, Jason Domingo, Patrick Huynh and Thomas Ricafort "Reclamation of Greywater from Recreation Centers for Sustainable Water Consumption".
- A Blanket of Warmth For Our Nation's Homes, Industrial Systems Engineering Capstone Students from the University of Regina.
- Dr Mohammed Mohamedali's (Process Systems Engineering) paper entitled "Development of Novel Ionic Liquids Functionalized Porous Materials for CO<sub>2</sub> Capture Applications" won the best Oral Presentation Award at the eighth Global Conference on Global Warming, Doha, Qatar. The research was supervised by Dr Hussameldin Ibrahim and Dr Amr Henni.
- Xiaying Xin (Environmental Systems Engineering), Lirong Liu (Environmental Systems Engineering), Guanyi Lu (Industrial Systems Engineering) and Zehua Chen (Petroleum Systems Engineering) received the 2019 Dean's Graduate Award.

Respectfully submitted,

Esam Hussein, Ph.D., P.Eng.  
Dean

The Department of Geological Sciences at the University of Saskatchewan offers degrees in Geology and Geophysics and multidisciplinary degrees in Earth and Environmental Sciences and Paleobiology.

This coming year, the Earth and Environmental Sciences degree will be discontinued and a new Environmental Geosciences program will be offered.

This past year 41 undergraduate degrees were granted which is similar to 2018. Overall undergraduate numbers are down relative to five years ago probably due to the prolonged slowdown in natural resource industries.

University of Saskatchewan undergraduates prepared to host the 2020 Western Inter-University Geology Conference (WIUGC) and students travelled to the Prospectors and Developers Association of Canada in Toronto and Round Up in Vancouver.

There are currently 39 MSc and 21 PhD students pursuing graduate degrees within the department.

The 85th Anniversary of the Ore Gangue, the geology students' association, was successfully celebrated with a reunion in May.

Professor James Merriam has announced that he will retire as of July 1, 2019 while Professor Joyce McBeth's term will be ending on September 1, 2020. Professor Camille Partin was granted tenure and was promoted to Associated Professor while Professor and Murray Pyke Chair, Bruce Eglington was promoted to Full Professor.

Annual field schools were run to Zortman, Montana and Flin Flon, Manitoba.

The geophysics field school also took place in the outskirts of Saskatoon.

An international field trip was also successfully run to Asturias, Spain.

Most of the 16 faculty hold NSERC Discovery grants and many also receive funding from NSERC CRD, NSERC Strategic Partnership Grants from the Geological Survey of Canada and from industrial and international sources.

Faculty in Geological Sciences were authors on over 50 distinct publications.

Respectfully submitted,

Dr. Sam Butler  
Professor and Department Head

## Regina Engineering Society (RES)

### RES Mission & Objectives

The mission of the RES is to serve the professional and social needs of engineers in the Regina area and to support interaction between its members, local technical societies, engineering students and major engineering employers.

The objectives of the RES are:

- To facilitate the exchange of professional knowledge among its members.
- To advance the professional and social welfare of its members.
- To promote the engineering profession to the public.
- To collaborate with universities and other institutions in the advancement of engineering education.
- To promote good relations between engineers and members of allied professions.
- To promote and assist in the education of youth groups in fields related to the engineering profession.
- To cooperate with other constituent societies for the advancement of mutual interests.

### RES Executive Council 2019

The 2018-2019 RES Executive Council served during the RES fiscal year of June 1, 2018 to May 31, 2019. The RES Annual General Meeting was held in conjunction with the annual golf tournament on June 21, 2019 where new executives were introduced. The 2019-2020 RES Executive Council will serve from June 1, 2019 until May 31, 2020.

POSITION	2018-2019	2019-2020
President	Mitchell Pockett	Brittany Sippola
Vice-President	Dustin Unger*	Dustin Unger
Past President	Vacant	Mitchell Pocket
Treasurer	Simon Li	Kelsey Wells
Secretary	Brittany Sippola*	Chantel Kryzanowski
Social Director	Sarah Yeo*	Sarah Yeo
Technical Presentations	Kyle Mason*	Kyle Mason
Communications Director	Deborah Lewko	Olagoke Rufai

POSITION	2018-2019	2019-2020
University of Regina	Rob Jones, Douglas Wagner	Rob Jones, Douglas Wagner
Regina Engineering Students' Society	Vacant	Brandon Clarke
CSCE Southern Saskatchewan	Brent Miller	Brent Miller
IEEE Southern Saskatchewan	Chris Pikula*	Adam Tilson*
Regina Geotechnical Group (RGG)	Kyle Mason	Jasyn Henry
APEGS Liaison	Nicole Barber	Nicole Barber

\* Vacancy filled after the Annual General Meeting

### Events

The annual Engineering Horizons Dinner was held on April 9, 2019 at the Conexus Arts Centre. This event was emceed by Margaret Anne Hodges, P.Eng. of SaskTel. Lynden Penner, P.Eng., P.Geo. from J.D. Mollard & Associates was our keynote speaker, discussing the life and legacy of Dr. Jack Mollard, P.Eng., P.Geo.

Dr. Mollard's work included interpreting earth's physical geography, mainly from air photos and satellite images. His career milestones included receiving the Saskatchewan Order of Merit, the Julian Smith Medal from the Engineering Institute of Canada and the Allied Arts Medal from the Royal Architectural Institute of Canada.

The RES continued our yearly IMAX and Science Centre Day for our members and their families on April 14, 2019. There were 156 people registered to attend. The film shown was "Robots" and it was well received.

The RES Annual Golf Tournament and AGM was held on June 21, 2019 at the Joanne Goulet Golf Course. Poor weather ended the golfing early so prizes were raffled off to various attendees. The AGM was then held and the 2019-2020 executives were introduced.

The annual "Meet the Executives" Beer and Billiards Night was held on October 16, 2019 at the Broken Rack. The evening was successful with 20 attendees socializing and playing pool.

The second annual Holiday Mixer was held on December 11, 2019 at Leopold's Tavern. The event was well attended, and a larger venue will be explored for our 2020 event.

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## Awards

The RES recognized three deserving professionals for their commitment and service to the engineering community at the 2019 Engineering Horizons Dinner on April 9, 2019.

The Engineering Excellence Award was presented to Howard Yea, P.Eng., the Volunteer Service Award was presented to Gina Escanlar P.Eng. and the Engineer-In-Training award was presented to Kelsey Wells, Engineer-In-Training.

Several members of the RES participated in the University of Regina's Engineering Project Day, both to serve as industry evaluator as well as reviewing projects for the RES awards.

The RES awarded three groups: "Process Dust Recycling System", presented by Zach Martin, Carson Dougall, Samantha Valadao, and Graham Brunwald; "Solutions for Sustainable Stormwater Management in a Regina Subdivision" presented by Jamie Kozak, Nicholas Hornung, and Ty Vallee; and "Feasibility Study of Drone Applications for Engineering and Environmental Design" presented by Luke Flegel and Tyler Yuhasz.

## Sponsorships

The RES is continuing to provide support to a number of events and organizations throughout the community, including the RGG GeoCelebration, Engineering for Kids Regina, the E.Y.E.S. Camp, the Chess Association and the Great Northern Toboggan Race.

The RES is looking forward to another successful year in 2020 and would like to thank APEGS for its continuing support and guidance!

Respectfully submitted,

Brittany Sippola, Engineer-In-Training  
President

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## Saskatoon Engineering Society

In 2019, the Saskatoon Engineering Society (SES) continued to offer our members industry-relevant technical events and tours, excellent networking and family events and sponsored many engineering related community events.

To highlight a few of the events in 2019, the public speaking course attracted about a dozen brilliant engineering members who want to further their public speaking skills and network with others.

The entrepreneurship focused events such as "How to start your own consulting engineering company" inspired nearly 50 members and helped them to gain valuable insights on what is like to start on your own.

The pub mixers, family mini-golf and Industry Celebrating Excellent events continued to strengthen the ties between our members.

The SES undergraduate Design Showcase at the University of Saskatchewan has gained a tremendous amount of attention from the industry and it was well attended with hundreds of people from the college, parents and corporations in Saskatoon. It offered a huge stage for our talented engineering students to showcase their ingenuity through their hard work.

The 2019-2020 executive team kicked off their terms at the SES Annual General Meeting hosted at the Western Development Museum on September 26, 2019. During the meeting the SES Engineer of the Year award was presented to Margaret Kuzyk P. Eng, FEC, FGC (Hon.), FCSSE. A civil engineer by training, Margaret is a leading expert in building codes.

### The 2019-2020 executive team consists of the following:

Directors: Rajeev Chadha, P. Eng.; Rajesh Shah, P. Eng.;  
Jeremy Nelson, P. Eng.; Alan Tsui, P. Eng.; Arjun Paul, P. Eng.;  
Sumith Kahanda, P. Eng.; Akinniyi Akinpelu, P. Eng.;  
Harprit Singh, P. Eng.; Arian Andkhoie, P. Eng.; and  
Ross Welford, P. Eng.

APEGS Liaison: Lesley McGilp, P. Eng, MBA

SESS Liaisons: Jordan Schuba

U of S Liaison: Emanuele Sacchi, P.Eng

Website: Edwin Edquist, P. Eng. and Ross Welford, P. Eng.

President: Kai Li, P. Eng.

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Vice President: Juniper Willard, P. Eng.  
Past President: Jonathan Bushman, P. Eng.  
Treasurer: Zygmunt Kowal, P. Eng.  
Secretary: Travis Zimmermann, P. Eng.

The 2020 year will be an exciting year. We incubated a website idea in 2019, <https://saskatoontechnicalevents.com/> and it is ready to take off in 2020. The website offers a single destination for people to find all technical events happening in Saskatoon. It will also help different technical societies collaborate on events dates and avoid date clashes.

The leadership committee is grouping their events into series such as the cutting-edge technology series and “The Wider View” series. The newly established career and outreach committee will help members with career development and help reach out to the public.

Respectfully submitted,

Kai Li, P.Eng.  
President

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## Moose Jaw Engineering Society

The Moose Jaw Engineering Society held several events during the year which has added value to our membership.

The 19th Annual Golf Tournament was held on Saturday September 7 at the Hillcrest Golf Club. The weather was cool and a bit windy, but we had another successful event as 15 golfers enjoyed a Texas scramble style tournament and 23 attended the post-game supper at the Crushed Can.

For professional development, the Society offered a tour on June 6 of Saskatchewan Polytechnic.

I attended a meeting in Swift Current June 13 in conjunction with the APEGS Council Meeting to discuss the potential for re-establishing a Swift Current Engineering Society and offered assistance. There seems to be some interest in their community.

We sponsored \$1000 to Saskatchewan Polytechnic for a student scholarship and \$250 towards the Regina Geotechnical Group (RGG) for their third annual GeoCelebration event.

The finances of the Society are strong with a forecasted year-end surplus of approximately \$10,000 which will allow us to continue to do activities in 2020.

We held three executive committee meetings this year on April 9th, June 20th and November 15 to discuss Moose Engineering Society business. The AGM combined with an ethics seminar was held on November 27 and had 14 people in attendance.

### Elections were held and the 2020 Executive are:

President:	John Conway
Treasurer:	Naser Jaradat
Secretary:	Rajib Sahaji
Professional Development:	Rory Windrum Ryan Johnson, P.Eng., (Past President)
Social Events Coordinator:	Daryl Bunnell
Saskatchewan Polytechnic Liaison:	Shaun Nanan

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On behalf of the Moose Jaw Engineering Society, I would like to thank Nazmul Hassan for helping us as Secretary before he transferred to Saskatoon and Rajib Sahaji for stepping up to fill the void when Nazmul left.

I would like to also thank the presenters and hosts, as well as those who planned the events.

I would like to personally acknowledge and thank the entire executive for their work and dedication to delivering the Society's objectives as without them, there would be no education, activities or networking in the Moose Jaw Region for the membership.

Finally, I would like to thank our respective employers for allowing the Executive members the time needed to plan and coordinate these activities: SaskWater, Water Security Agency, Saskatchewan Polytechnic and Buffalo Pound Water Treatment Corporation.

We look forward to seeing everyone in 2020.

Respectfully submitted,

Ryan Johnson, P.Eng.  
President

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## CIM Saskatoon Geosection

On behalf of the CIM Saskatoon Geosection, it is my pleasure to submit this report to APEGS regarding our 2019 society activities. The CIM Saskatoon Geosection is one of two Saskatoon-based branches in District 4 (Central Canada) of the Canadian Institute of Mining, Metallurgy and Petroleum.

The stated objective of the Saskatoon Geosection is to provide a forum for the presentation and discussion of technical information in the application of geology, geophysics and geochemistry in the exploration, development and exploitation of mineral resources.

In 2019, the Saskatoon Geosection continued with regular luncheon meetings which feature invited speakers from Saskatchewan, Canada and beyond.

Our annual membership runs from January to December. Some of the talks hosted in the past year (and upcoming 2020 talks) include:

January 25th, 2019: Alan Wilson - Porphyry Copper Deposits: Field Criteria for Exploration and Resource Potential Evaluation (SEG Distinguished Lecturer).

April 17th, 2019: Dr. Arnfinn Prugger - Scissors Creek: The First Potash Shaft Successfully Completed in Saskatchewan Since 1979 (CIM Distinguished Lecturer).

October 23rd, 2019: Dr. Brian Kendall – Non-Traditional Redox-Sensitive Metals in Sedimentary Rocks as Tracers of Global Ocean Redox Conditions (GAC W.W. Hutchinson Medal Lecturer).

November 7th, 2019: Dr. JoAnne Nelson - British Columbia's "Golden Triangle": Arc-Axial Porphyry Belt, or Mineralized Deep-Crustal Corridor? (GAC Howard Street Robinson Medal).

December 13th, 2019: Bob McDonald P.Eng., MBA, LL.B. – APEGS Ethics Presentation.

January 27th, 2020: Dr. Melissa Anderson - Drilling the seafloor: New Insights into Hydrothermal Fluid Flow and Alteration Below an Actively Forming Massive Sulfide Deposit.

March 2020: Wolfgang Stotereau Scholarship Winner – To Be Announced.

Every year, our funding goes toward supporting our lunch meetings (bringing in both local and traveling speakers), supporting geological and science related initiatives in Saskatoon, and most importantly, supporting the Wolfgang Stotereau Scholarship for Earth Science Students at the University of Saskatchewan.



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When our accounts are no longer sufficient to support those activities, we work with the CIM national group to run a Saskatchewan field conference to replenish our funds. The most recent conference was held in September 2017 and provided a boost to the society's balance sheet. This funding combined with the annual APEGS grant will allow the Saskatoon Geosection to expand its 2020 program and provide new networking events for geoscience professionals and recent graduates.

The Saskatoon Geosection Executive for 2019-2020 are:

Branch Chair: Shayne Rozdilsky P.Geo. (NexGen)

Program Chair: Chris Hamel (UEX)

Treasurer: Darcy Hirsekorn (Frostfire)

Secretary: Catlin Glew (Cameco)

The Saskatoon Geosection would like to thank APEGS for its continued support of the society and look forward to seeing everyone in 2020.

Respectfully submitted,

Shayne Rozdilsky, P.Geo.  
Branch Chairperson

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## Saskatchewan Geological Society (Regina)

2019 is the 69th year of activities for our Regina-based Saskatchewan Geological Society. As the following executive and committee reports show, this year the Society has remained active with regards to its operations, both social and technical.

I urge you to read these reports at your leisure. I will briefly mention them here while noting that, in truth, I had very little to do with the various initiatives other than to enjoy them. So many of our dedicated volunteers take care of these things, largely untroubled by a changing executive branch.

Historically, Society activities have comprised our technical lecture series and field trip program. These are the life-blood of our Society, serving the membership with both informative technical and networking opportunities. Friendships are made at these lectures and on these field trips. With 14 well-attended lecture sessions and a fully subscribed field trip to neighboring Manitoba, the year again cruised along as we have come to expect. We have been spoiled by this I believe.

The Society engages both the mining and oil and gas industries active in the province with involvement and co-sponsorship of two multi-day events; the Williston Basin Petroleum Conference held in Regina every second year (this year coordinated by the Petroleum Technology Research Centre) and the Saskatchewan Geological Survey's Annual Open House held in late fall in Saskatoon and showcasing Survey and mining activities.

At the Williston Basin event, our Society traditionally runs an Oil & Gas Core Conference that generates significant income to our coffers. At the Saskatoon Open House, we sponsor and run a technical poster session at which geology students from both University of Saskatchewan in Saskatoon and University of Regina "show & tell" their honours or graduate projects.

We also, when possible, take further advantage of this Saskatoon Open House opportunity to offer a free admission, general public geological lecture as part of the Society's Education and Outreach initiative (in this year's case, a talk on 'armored dinosaurs' by Dr. Caleb Brown from the Tyrrell Museum in Drumheller). The Society remains very appreciative of both opportunities to promote geoscience to both industry and the public.

The Education and Outreach effort is active in Regina as well, with its spring school program bringing elementary school kids in for a two-day primer on things geological, as well as a free public lecture (this year on a geothermal energy theme by consultant, Dr. Kathy Hickson).

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Other “outreach-type” initiatives aimed at a public audience include an annual geological calendar, this year being the fifth printing, and a new project this year, the Digital Geological Highway Map, which updates and modernizes the 2002 paper Geological Highway Map into a digital format. Technical production is being provided mainly by Society and Survey geologists, with financial support from APEGS, Sask. Mining Association and Saskatchewan Tourism. Stay tuned for this new product.

And finally, the Society runs three social events for its mainly Regina-based membership; namely a March curling bonspiel, an early September golf tournament and the Annual General Meeting. The first two provide opportunities for willing members to gather and make fools of themselves either on the golf course or on the curling rink. The AGM is our annual opportunity to review the past year, consider the upcoming year and conduct both our student awards (open house poster session winners and Outstanding Geology Student Awards from both U of S and U of R) and membership awards (honour roll inductees).

It finances gained from membership fees, corporate sponsorships, APEGS and SMA support and core conference income have been remarkably stable for a number of years now and allow us to continue the activities described in this annual report. And that is not counting the astonishing and very generous \$20,000 honorarium donated to the Society last year by Ms. Anne Fuzesy and family for the furtherance of the annual Student Poster Session Awards and particularly the Dr. Lazlo Fuzesy Award (best graduate student poster at the Saskatoon Open House).

A heartfelt thank you to the Fuzesy Family for this remarkable donation. Money matters seem to be well in hand.

The other necessary driver for the continuation of the Society's programs is our volunteer power. With an active membership of about 100 or so, many not living in Regina, this volunteer base is limited and always has been.

As President this past year, I have had a front row seat to see the considerable volunteer effort required to pull all these things off, whether it be in executive positions or the various committees.

Over the years, we have expanded our activities far beyond the original lecture series/field trip events to include all the other things summarized in this annual report, with a concomitant increase in volunteer power. And it appears to me that if there is a risk in our society faltering, as so many other similar organizations have in the past decade or so, it lies in us outstripping this volunteer power.

We should keep this in mind as our society moves forward, to make sure that volunteering is, at the very least fulfilling, hopefully a joy and never a chore or duty. The executive treasurer position is on the vanguard concerning this fear.

We have to admit our Society is aging, as is our active membership, as is our potential volunteer base. The executive this year has endeavoured to sustain both by trying to particularly engage our younger professionals and students.

We continue to offer student discounts to our activities, this year we renewed a program to offer travel support to students from both La Ronge and Regina to attend the Saskatoon Open House. We are hoping to include U of S Ore Gangue Geology Club members in our talk and field trip notices as “guest members”.

We have tried to advertise to our membership the geological lecture series run by the U of R geology department and to more closely engage with the university with co-sponsored lectures. We have a long way to go with these initiatives; I'm hopeful that we will win more battles this coming year.

The vitality of our society most depends on its membership and their enthusiasm and active engagement in, and passion for, our science. By keeping the membership vital and engaged, I'm hoping we can look forward to another exciting 69 years of operations. Time to get started.

Finally, a heartfelt thanks to my amazing executive this year, and to all the others, past and present, who have selflessly donated their invaluable time to our society in order to get us here.

It was an honour and pleasure to be your President this year.

Respectfully submitted,

Mike Thomas, P.Eng.  
President

## Saskatoon Engineering Students' Society

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2019 was another great year for the Saskatoon Engineering Students' Society (SESS) and this is because of the generous funding we receive from APEGS each year. Our student society aims to provide professional development, social events and academic support to roughly 1,700 undergraduate students.

Funding from APEGS is used in many ways ranging from campus recreation sports fees to mental health week at the SESS lounge. Students find a lot of value in being able to be sent to many different conferences hosted regionally by the Western Engineering Student Societies Team (WESST) or nationally by the Canadian Federation of Engineering Students (CFES), and the networking events the SESS is fortunate to host throughout the year, connecting students to the industry.

In January of 2019 the SESS was able to send four delegates to CFES Congress hosted in Montreal, QC. This conference focuses on building future leaders within our engineering student societies and engineering communities. It also features a CFES general assembly, where students can watch how policy is changed and created within an organization.

Later in January, we were able to send four teams to the Western Engineering Competition hosted in Winnipeg, MB. Students competed with other students across eleven different engineering schools in Western Canada.

Later in 2019, the SESS was able to send delegates to the WESST Executives Meeting, the WESST Annual General Meeting and Retreat (AGMR) and the CFES President's Meeting. At the WESST AGMR, for the second year in a row, our own Shanleigh McKeown was elected as President of WESST. These three conferences focus on professional development and all boast a general assembly, for their respective organizations.

The SESS proudly keeps the APEGS logo on our social media and in our weekly newsletter. We also thank APEGS for being our primary supporter at various events throughout the year.

On behalf of the SESS, thank you APEGS for your continuous support of the SESS. APEGS has single-handedly improved our students' university experience and APEGS has given many students the opportunity to network, improve professional skills, make nation-wide connections and be part of something bigger than ourselves, and for that, we are truly grateful.

Thank you for your continuous support,

Respectfully submitted,

Jordan Schuba,  
Vice-President Corporate-Relations

## Regina Engineering Students' Society

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2019 was a good year for RESS, as it was a year of events and achievements. All of this was possible due to the support, contribution, sponsorship and involvement from APEGS.

Thanks to the generosity of APEGS, the students in engineering were able to compete in events all across the world, attend conferences across Canada, hold competitions and fund projects within engineering.

2019 started off with the Canadian Federations of Engineering Students (CFES) conference which was held at McGill University in Montreal from January 2-7. Student Leaders of Engineering in Canada had the opportunity to meet and network with CFES executives and other students to further improve their leadership skills for the benefit of the student councils.

The Western Engineering Competition was hosted shortly after. This competition is held annually and it provides opportunities for students to compete in eight different divisions. It was held in Winnipeg, Manitoba. Thanks to the financial support from APEGS, not only could we send eight delegates from the RESS, it also provided the opportunity for the Programming Team to take home first place.

On September 26 the RESS hosted the annual "Year 1-4" event where 80 engineering students had the opportunity to network with industry members and get proper insight on the type of workload for engineers. We had a keynote speaker talk about her experience working as a Silicon Valley employee. Moreover, APEGS delegates shared with students about their contributions to the RESS.

A large portion of funding RESS receives from APEGS goes to other engineering groups:

- The Institute of Electrical and Electronic Engineering.
- The Canadian Society for Civil Engineering.
- Society of Petroleum Engineers.
- Engineers Without Borders Regina.
- U of R great Northern Concrete Toboggan Club.
- SAE Cougar Racing.
- Regina Engineering Equipment Fund.
- Cougar Motorsports.
- Robotics Club.

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The diversity seen in these clubs give students an opportunity to seek out what benefits them.

The RESS would like to thank APEGS for its continuous support to us and all affiliated groups.

The work of the Student Development Committee is tremendous and we simply would not function without APEGS support.

If you have any questions, feel free to contact me at pmm476@uregina.ca.

Respectfully submitted,

Pranav Mukesh  
VP Professional Affairs

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## D.M. Kent Club of Geology

The 2019 year was a busy and exciting time for the D.M. Kent Club of Geology (DMKC).

Enrollment reached 89 students this year which is similar to 2018. Our club membership has increased from previous years and more first and second year students are becoming members. The members have been gaining meaningful learning opportunities and experiences with the help of the Student Development Committee's (SDC) funding.

The year started with the DMKC sending several students to the Western Inter-University Geoscience Conference (WIUGC) in Brandon, MB. Students were able to attend short courses, field trips, professional networking events and technical talks. The conference allows members to meet other students from universities across Western Canada.

Several students attended the AME Roundup conference in Vancouver, BC in January as well. At this conference students participated in a student roundtable event, attended technical talks, networked with industry professionals, attended Indigenous talks to learn about Indigenous representation in the industry and attended different social events.

In March, several students attend the Prospectors and Developers Association of Canada Conference in Toronto, ON. These students were able to attend professional development events, network with industry professionals and attend technical talks. This conference gives students the opportunity to see projects and research from around the globe and learn about the various aspects of the industry including geology, business and engineering.

Attending these conferences are imperative to students' education and career as they are able to network with future employers and showcase their research. Without the SDC funding our students would not be able to attend these conferences.

In April, students and professors attended the annual DMKC year end banquet. This gives students and professors the opportunity to reflect on the previous year together with one professor giving a speech. Students are recognized with awards, graduating students are congratulated and the executive for the next year is introduced.

At the end of April we also hosted the 2nd Annual Earth Ring Ceremony where 17 students receive their Earth Ring and took the pledge to professionalism in

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geoscience. Students and their families were able to gather to celebrate the completion of their geology and environmental geoscience degrees before beginning their careers.

Once the summer was over students were welcomed back with the annual meet and greet. This event allows students to reconnect with fellow students as well as their professors. This gives new club members the opportunity to socialize and become a more active member. It also allows for previous members to catch up with their friends and professors and reflect on their summer whether they were working in industry or not.

This year we organized a Halloween Bowl-o-Rama at the Golden Mile Bowling alley. This event had almost 100 people attend and raised over \$300 for our club which was put towards our Christmas party. This event was a great way to promote a school-life balance.

In November, we had our fourth annual Student Industry Geoscience Roundtable event. This event is a way for students to learn about the different industries within the geology and geoscience field. We had speakers from the Saskatchewan Geological Survey, IsoEnergy, SSR Mining, BaffinLand Mine, University of Regina researchers, APEGS and the Water Security Agency attend. Following the event there was the opportunity for students to attend a networking event where they could network with industry professionals. This event is funded by the SDC and is a great learning and networking opportunity for students.

To end our year several students attended the Saskatchewan Geological Society (SGS) Open House in Saskatoon. The SGS Open House is a great place for students to learn about the local industry, attend technical talks and network with current and future employers.

APEGS and the SDC provide our club with funding that is imperative to our students' studies. The funding allows students to learn about geology at a larger scale and gain valuable contacts for furthering their careers.

APEGS also provides us with advice and resources to becoming a professional geoscientist. The funding we receive from the SDC allows for many of our students to experience aspects of geology they would otherwise not have been able to. The SDC helps geology and geoscience students to grow and become great geoscientists with many experiences that can be brought to the work force.

On behalf of our club members, professors and executive of the D.M Kent Club of Geology, we would like to extend our sincerest appreciation for support from APEGS and the SDC for the last year and for future years of support for our program.

Respectively submitted,

Colbi Kuppenbender  
President

## Ore Gangue Students Society

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In 2019 the Ore Gangue Students Society was able to provide its members with fulfilling experiences throughout the entire year.

The Ore Gangue exists to provide academic support, professional development opportunities and social engagement for the students in the University of Saskatchewan's department of Geological Sciences.

None of these things could have been possible without the tremendous support and generosity APEGS has provided the Ore Gangue.

The year started with twenty-one students travelling to Brandon, Manitoba to attend the 55th annual Western Inter-University Geoscience Convention (WIUGC). Students were able to take part in field trips, short courses, networking events, technical talks and an industry fair. A highlight from the event was being given the honor to host the 56th annual WIUGC conference for early 2020.

At the end of January, five students were able to attend the Association of Mineral Exploration Roundup 2019 Conference which is held in Vancouver annually. This conference gave students the opportunity to network with industry professionals within the mining industry and mineral exploration sectors. Students also attended technical talks geared towards new developments and trends in mineral deposits from around the world.

The Prospectors and Developers Association of Canada 2019 Convention (PDAC) was held in the first week of March. Twenty-two Ore Gangue student members attended this conference with two of the students presenting their undergraduate research in PDAC's poster presentation event. PDAC is known to be the world's premium mineral exploration and mining conference. This conference created opportunity for students to attend world class technical talks, industry fair, student specific networking events and the opportunity to network with hundreds of industry professionals.

During the first week of April the Ore Gangue held its annual year-end banquet. This event creates an atmosphere where geoscience students, professors and mentors can come together and celebrate the successful academic year. Graduating students participated in an Earth ring ceremony where participants recited an oath in accordance to APEG's values. This event highlights the year and welcomes the newly elected Ore Gangue executives for the following academic year.

The final conference the Ore Gangue was able to attend was held in Quebec City in mid-May. Four students attended the event with all of them giving poster presentations and three giving presentations about their research. The GAC-MAC-IAH 2019 Conference was organized by the Geological Association of Canada, Canada Mineralogical Association and the International Association of Hydrogeologists. This conference gave students the opportunity to showcase their research and learn about ongoing research from various fields within geological sciences.

The Ore Gangue would like to thank APEGS and the Student Development Committee (SDC) for the financial and interpersonal support throughout the years. Their ongoing efforts have allowed our students to experience a level of professional development that will continually enhance their undergraduate career. Your hard work and efforts have provided students a huge platform to thrive in academic and social settings.

The entire Ore Gangue Students Society is beyond grateful for the past, present and future support that APEGS and SDC have provided us.

Respectfully submitted,

Nevan Trombley  
APEGS Representative



## 2019 Financial Report

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This is a summary of the unaudited Consolidated Statement of Revenues and Expenditures of the Association to December 31, 2019. The Auditor's Report will be available at the 90th Annual Meeting.

Total revenues decreased to \$6,815,929 in 2019, which was \$254,379 (3.9 per cent) higher than budgeted. Total expenditures in 2019 were \$6,601,558, which was \$430,932 (6.5 per cent) less than budgeted. The 2019 budget proposed a deficit of \$470,940; however, we ended the year with a pre-audit projected surplus of \$214,964.

The pre-audit estimate of total members' equity at year-end is \$11,603,169, and consisted of the projected surplus of \$214,964, retained earnings of \$7,098,761, an investigation and discipline training reserve of \$942, a working capital reserve of \$3,488,501 and a discipline and enforcement reserve of \$800,000.

Continuing the trend from previous years, the Association's budgeted and actual revenues are trending together, in large part from a stabilization of the number of out of country Engineer-In-Training applications. Executive Committee and Operations expenditures have held relatively steady year over year. The Governance Board is seeing increases due to processing the backlog of applicants from 2018 and the Investigation Committee has an increased number of cases resulting in additional costs as well. Both the Education Board and Image & Identity Board have improved the resolution of their 2019 budgets and are close to spending what they planned to in support of their mandate, with the main exception being a reduction in budgeted spend from the Communications and Public Relations committee.

The Association continues to follow the strategic budgeting principles of periodic fee increases coupled with multi-year budget surpluses followed by an equal and offsetting quantity of budget deficits. The Audit Committee is pleased to report that the financial planning and management of your Association continues to be sound.

Respectfully submitted,

Andrew Lockwood, P.Eng., FEC  
President-Elect

## Balance Sheet

### THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF SASKATCHEWAN

December 31, 2019 (unaudited)

#### ASSETS

##### Current Assets:

Bank Operating Account	\$2,247,583.33
Bank Investigation and Discipline Training	942.64
RBC Investment Savings/Money Market Acct	3,516,646.28
Petty Cash	265.00
Investments	9,431,345.64
Accrued Interest	6,050.09
Accounts Receivable	9,053.81
Prepaid Expenses	161,974.21
Total Current Assets	<u>\$15,373,861.00</u>

##### Fixed Assets

Office Equipment	\$306,540.36
Accumulated depreciation	<u>226,387.40</u>
Net Office Equipment	<u>\$80,152.96</u>

Computer Equipment	\$154,287.97
Accumulated depreciation	<u>113,323.36</u>
Net Computer Equipment	<u>\$40,964.61</u>

Leasehold Improvements	\$1,288,375.00
Accumulated amortization	<u>732,920.06</u>
Net Leasehold Improvements	<u>\$555,454.94</u>

Other Intangible Asset	\$1,033,977.18
Accumulated amortization	<u>564,638.70</u>
Net Intangible Asset - Membership Database	<u>\$469,338.48</u>

Total Fixed Assets and Intangible Asset	<u>1,145,910.99</u>
Total Assets	<u><u>\$16,519,771.99</u></u>

#### LIABILITIES AND MEMBERS' EQUITY

##### Current Liabilities:

Accounts Payable & Accrued Liabilities	\$168,683.03
Accrued Vacations	374,792.48
Goods & Services Tax Payable	150,102.84
Prepaid Annual Dues	<u>4,223,025.00</u>
Total Current Liabilities	<u>\$4,916,603.35</u>

##### Members' Equity:

Reserves	\$4,288,501.00
Reserves - Investigation and Discipline Training	\$942.64
Retained Earnings	7,098,760.71
Surplus/(Deficit) for period	<u>214,964.29</u>
Total Members Equity	<u>\$11,603,168.64</u>
Total Liabilities & Members' Equity	<u><u>\$16,519,771.99</u></u>

## Consolidated Statement of Revenue and Expenditures

### THE ASSOCIATION OF PROFESSIONAL ENGINEERS AND GEOSCIENTISTS OF SASKATCHEWAN

for the Period Ended December 31, 2019 (unaudited)

	TO DATE 2019	BUDGET 2019	% OF BUDGET	ACTUAL 2018
<b>REVENUES</b>				
Membership Dues	\$4,787,258.39	\$4,619,200.00	103.64	\$4,660,905.44
Licence Dues	12,337.50	16,500.00	74.77	11,587.50
Certificate of Authorization	730,966.62	712,000.00	102.66	710,253.32
Registration Fees	620,500.00	676,500.00	91.72	1,191,540.00
Late Payment Surcharges	11,445.00	8,000.00	143.06	12,174.75
Advertising (Newsletter and Website)	40,350.00	38,000.00	106.18	35,390.00
Interest	257,078.04	200,000.00	128.54	232,330.46
Miscellaneous	1,452.39	2,000.00	72.62	1,001.66
Professional Practice Exam & Seminar	145,531.77	137,600.00	105.76	130,728.67
Member Seal Fees	13,185.12	10,000.00	131.85	17,008.08
Professional Development Day	144,023.82	60,000.00	240.04	63,182.64
Association Functions (Womens History & Book)	5,100.04	4,750.00	107.37	5,731.00
Self-Regulating Working Group	46,700.00	77,000.00	60.65	4,640.91
Total Revenues	<u>\$6,815,928.69</u>	<u>\$6,561,550.00</u>	<u>103.88</u>	<u>\$7,076,474.43</u>

## Consolidated Statement of Revenue and Expenditures continued

	TO DATE 2019	BUDGET 2019	% OF BUDGET	ACTUAL 2018
<b>EXPENDITURES</b>				
Executive Committee				
Executive Committee	\$19,312.69	\$23,350.00	82.71	\$19,447.60
Liaisons	85,624.97	85,500.00	100.15	71,095.76
Government Relations	69,715.57	81,250.00	85.80	44,755.64
UofS/UofR Activities	16,492.45	16,550.00	99.65	14,425.74
Provincial Meetings	13,188.42	53,900.00	24.47	18,412.32
Elections	14,118.41	30,325.00	46.56	28,584.01
Annual Report	12,745.94	13,300.00	95.83	12,745.94
Engineers Canada	180,669.34	215,075.00	84.00	185,330.00
Geoscientists Canada	37,582.04	51,175.00	73.44	44,592.95
30 x 30 Task Group	2,959.72	33,500.00	8.83	41,977.88
Self-Regulating Working Group	48,632.92	36,000.00	135.09	10,961.99
Total Executive Committee	\$501,042.47	\$639,925.00	78.30	\$492,329.83
Council & Committees				
Council Meetings	\$201,134.53	\$172,360.00	116.69	\$165,274.43
Investigation Committee	126,556.77	106,100.00	119.28	66,443.83
Discipline Committee	18,548.73	61,800.00	30.01	25,273.06
Enforcement	14,993.69	9,875.00	151.83	8,892.25
Total Council	\$361,233.72	\$350,135.00	103.17	\$265,883.57

	TO DATE 2019	BUDGET 2019	% OF BUDGET	ACTUAL 2018
Operations				
Salaries	\$2,377,534.90	\$2,352,000.00	101.09	\$2,174,780.46
Fixed Asset Purchases	2,514.62	2,500.00	100.58	1,289.68
Depreciation	265,950.27	290,000.00	91.71	218,572.20
Occupancy Costs	640,475.88	651,000.00	98.38	624,951.76
Professional Fees	60,409.93	257,000.00	23.51	81,760.30
Telephone	9,720.03	13,400.00	72.54	9,386.34
Other Operations Costs	572,372.40	490,825.00	116.61	596,732.68
Total Operations	\$3,928,978.03	\$4,056,725.00	96.85	\$3,707,473.42
Governance Board & Committees				
Governance Board	\$2,005.82	\$1,500.00	133.72	\$1,516.46
Legislative Review Committee	149.00	200.00	74.50	276.57
CPD Compliance Committee	3,451.75	6,000.00	57.53	0.00
UofS/UofR Career Days	1,913.78	2,700.00	70.88	880.89
CEAB/CEQB Meetings	3,476.81	7,700.00	45.15	3,889.31
Experience Review Committee	84,925.69	81,300.00	104.46	91,577.99
Academic Review Committee/Interviews	199,006.82	162,100.00	122.77	160,101.40
Prof. Practice Exam Com./Seminar & Exam	164,315.63	167,510.00	98.09	135,957.69
Limited Member Admissions Committee	6,356.33	12,275.00	51.78	3,966.78
Total Governance Board	\$465,601.63	\$441,285.00	105.51	\$398,167.09

## Consolidated Statement of Revenue and Expenditures continued

	TO DATE 2019	BUDGET 2019	% OF BUDGET	ACTUAL 2018
Education Board & Committees				
Education Board	\$28,841.68	\$37,120.00	77.70	\$129,350.07
Environment and Environmental Issues Committee	5,184.77	6,100.00	85.00	4,090.54
Professional Development Committee	235,728.32	177,900.00	132.51	177,097.47
Student Development Committee	192,750.32	227,250.00	84.82	180,539.52
K to 12 Committee	54,969.82	54,850.00	100.22	22,757.44
Scholarships and Bursaries	82,975.00	101,800.00	81.51	62,500.00
Total Education Board	\$600,449.91	\$605,020.00	99.24	\$576,335.04
Image & Identity Board				
Image & Identity Board	\$15,284.07	\$10,050.00	152.08	\$1,600.25
CPR Committee	202,196.01	376,050.00	53.77	393,576.33
Connection and Involvement Committee	238,177.13	253,400.00	93.99	267,031.01
Awards Committee	1,536.68	3,500.00	43.91	4,449.17
Professional Edge Committee	260,208.71	263,200.00	98.86	262,454.03
Equity and Diversity Committee	26,849.93	28,850.00	93.07	14,351.47
Women's History Task Group		0.00		4,350.00
Total Image & Identity Board	\$744,252.53	\$939,400.00	79.23	\$943,462.26
Total Expenditures	\$6,601,558.29	\$7,032,490.00	93.87	\$6,383,651.21
Less Unrealized (Loss) on Investments	0.00	0.00	0.00	593.89
Total Expenditures	\$6,601,558.29	\$7,032,490.00		\$6,383,651.21
Surplus (Deficit)	\$214,964.29	-\$470,940.00		\$693,417.11



## Investments and Cash Funds

Month Ending December 2019

COMPANY	CERTIFICATE NUMBER	PURCHASE DATE	MATURITY DATE	ANNUAL YIELD%	INVESTED VALUE \$	MATURITY VALUE \$
<b>RBC DOMINION SECURITIES INC.</b>						
HSBC Bank Canada GIC - Annual (2.100% Annual Yield)	150901-B0AE01	Sep 1/15	Sep 1/20	2.100%	\$100,000.00	\$100,000.00
Montreal Trust CDA GIC - Annual (2.050% Annual Yield)	150902-B0F3C4	Sep 3/15	Sep 3/20	2.050%	\$100,000.00	\$100,000.00
Manulife Bank CDA GIC - Annual (2.050% Annual Yield)	150902-B0F3B7	Sep 3/15	Sep 3/20	2.050%	\$100,000.00	\$100,000.00
Bank of Nova Scotia GIC - Annual (2.050% Annual Yield)	150902-B0F3D2	Sep 3/15	Sep 3/20	2.050%	\$1,200,000.00	\$1,200,000.00
Canadian Western Bank GIC - Annual (2.150% Annual Yield)	150902-B0F37C	Sep 3/15	Sep 3/20	2.150%	\$100,000.00	\$100,000.00
Laurentian Bank GIC - Annual (2.100% Annual Yield)	150902-B0F389	Sep 3/15	Sep 3/20	2.100%	\$100,000.00	\$100,000.00
Manulife Trust Co. GIC - Annual (2.050% Annual Yield)	150902-B0F3A2	Sep 3/15	Sept 3/20	2.050%	\$100,000.00	\$100,000.00
Bank of Nova Scotia GIC - Annual (2.260% Annual Yield)	151217-B09A59	Dec 17/15	Dec 17/20	2.260%	\$400,000.00	\$400,000.00
B2B Trust GIC - Annual (1.860% Annual Yield)	160830-B06838	Aug 30/16	Aug 30/21	1.860%	\$100,000.00	\$100,000.00
Bank of Nova Scotia GIC Annual (1.7% Annual Yield)	160830-B069D3	Aug 30/16	Aug 30/21	1.700%	\$100,000.00	\$100,000.00
ICICI Bank GIC - Annual (1.8% Annual Yield)	160830-B0689A	Aug 30/16	Aug 30/21	1.800%	\$100,000.00	\$100,000.00
Versabank GIC - Annual (1.8% Annual Yield)	160830-B0694B	Aug 30/16	Aug 30/21	1.800%	\$100,000.00	\$100,000.00

## Investments and Cash Funds

COMPANY	CERTIFICATE NUMBER	PURCHASE DATE	MATURITY DATE	ANNUAL YIELD%	INVESTED VALUE \$	MATURITY VALUE \$
<b>RBC DOMINION SECURITIES INC.</b>						
SBI Canada Bank GIC - Annual (1.870% Annual Yield)	160830-B067E2	Aug 30/16	Aug 30/21	1.870%	\$100,000.00	\$100,000.00
Royal Bank of Canada GIC - Annual (1.700% Annual Yield)	160906-B07EAF	Sept 6/16	Sept 7/21	1.700%	\$100,000.00	\$100,000.00
RBC Mortgage Corp GIC - Annual (1.700% Annual Yield)	160906-B07F54	Sept 6/16	Sept 7/21	1.700%	\$100,000.00	\$100,000.00
Royal Trust Company GIC - Annual (1.700% Annual Yield)	160906-B080D4	Sept 6/16	Sept 7/21	1.700%	\$100,000.00	\$100,000.00
Royal Trust Corp GIC - Annual (1.700% Annual Yield)	160906-B0806E	Sept 6/16	Sept 7/21	1.700%	\$100,000.00	\$100,000.00
Peoples Trust GIC - Annual (1.800% Annual Yield)	160906-B07DF1	Sept 6/16	Sept 7/21	1.800%	\$100,000.00	\$100,000.00
Home Trust Company GIC - Annual (1.900% Annual Yield)	160929-B11185	Sept 30/16	Sept 30/21	1.900%	\$100,000.00	\$100,000.00
Royal Bank of Canada GIC - Annual (1.800% Annual Yield)	170905-B0C21C	Sept 5/17	Sept 6/22	1.800%	\$400,000.00	\$400,000.00
CND Western Trust GIC - Annual (2.500% Annual Yield)	170905-B0C2FF	Sept 5/17	Sept 5/22	2.500%	\$100,000.00	\$100,000.00
Ewquitable Bank GIC - Annual (2.530% Annual Yield)	170905-B0C362	Sept 5/17	Sept 6/22	2.530%	\$100,000.00	\$100,000.00
General Bank of CDA GIC - Annual (2.250% Annual Yield)	170905-B0C299	Sept 5/17	Sept 6/22	2.250%	\$100,000.00	\$100,000.00

COMPANY	CERTIFICATE NUMBER	PURCHASE DATE	MATURITY DATE	ANNUAL YIELD%	INVESTED VALUE \$	MATURITY VALUE \$
<b>RBC DOMINION SECURITIES INC.</b>						
Royal Bank of Canada GIC - Annual (1.800% Annual Yield)	171002-B144DF	Oct 3/17	Oct 3/22	1.800%	\$800,000.00	\$800,000.00
Nat'l Bank of Canada GIC - Annual (1.800% Annual Yield)	171002-B144D6	Oct 3/17	Oct 3/22	1.800%	\$200,000.00	\$200,000.00
Bank of Nova Scotia GIC - Annual (2.910% Annual Yield)	1809404-B18A76	Sept 5/18	Sept 5/23	2.910%	\$1,000,000.00	\$1,000,000.00
Bank of Montreal GIC - Annual (2.85% Annual Yield)	180927-B08AA7	Sept 27/18	Sept 27/23	2.850%	\$800,000.00	\$800,000.00
Canadian Tire Bank GIC - Annual (3.050% Annual Yield)	180927-B084E2	Sept 27/18	Sept 27/23	3.050%	\$100,000.00	\$100,000.00
Natcan Trust Company GIC - Annual (2.850% Annual Yield)	180927-B085CD	Sept 27/18	Sept 27/23	2.850%	\$100,000.00	\$100,000.00
HomeEquity Bank GIC - Annual (2.350% Annual Yield)	190829-B05794	Aug 29/19	Aug 29/24	2.350%	\$100,000.00	\$100,000.00
LBC Trust GIC - Annual (2.160% Annual Yield)	190829-B058EE	Aug 29/19	Aug 29/24	2.160%	\$100,000.00	\$100,000.00
PC Bank GIC - Annual (2.150% Annual Yield)	190829-B05F7D	Aug 29/19	Aug 29/24	2.150%	\$100,000.00	\$100,000.00
Royal Bank of Canada GIC - Annual (2.030% Annual Yield)	190903-B0C9D1	Sept 3/19	Sept 3/24	2.030%	\$500,000.00	\$500,000.00
BMO Mortgage Corp GIC - Annual (2.020% Annual Yield)	190903-B0C4F6	Sept 3/19	Sept 3/24	2.020%	\$100,000.00	\$100,000.00

## Investments and Cash Funds continued

COMPANY	CERTIFICATE NUMBER	PURCHASE DATE	MATURITY DATE	ANNUAL YIELD%	INVESTED VALUE \$	MATURITY VALUE \$
<b>RBC DOMINION SECURITIES INC.</b>						
Effort Trust GIC - Annual (2.10% Annual Yield)	190903-B0C39F	Sept 3/19	Sept 3/24	2.100%	\$100,000.00	\$100,000.00
Bank of Montreal GIC - Annual (2.370% Annual Yield)	191223-B0C2B3	Dec 23/19	Dec 23/24	2.370%	\$700,000.00	\$700,000.00
TOTAL INVESTMENTS					\$8,700,000.00	
ROYAL BANK CURRENT ACCOUNT					\$2,247,583.33	
RBC DOMINION ACCOUNT					\$0.00	
RBC INVESTMENT SAVING ACCOUNT					<u>\$4,205,059.94</u>	
TOTAL INVESTMENTS & CASH BALANCES					<u><u>\$15,152,643.27</u></u>	

## 2018 - 2019 APEGS Volunteers

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### Thank you to our volunteers!

APEGS depends on contributions of hundreds of volunteers who carry out the functions of our committees and assist with special projects and events. These are people who take time out of their own busy schedules to donate their time and talents for the benefit of public safety and the advancement of our professions. Please join us in thanking all of these dedicated individuals.

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### L

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Herve Lahamy



---

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Henry Ollegasagrem, P.Eng.

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Karisa Purvis, P.Eng.

## Q

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Lily Quilty, P.Eng.  
Anna Qureshi, P.Eng.

## R

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Olagoke Rufai, Engineer-In-Training  
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