

CANADIAN ENGINEERING ACCREDITATION BOARD
Abridged minutes of the 167th meeting

CONFIDENTIAL

3107 DATE AND PLACE

The 167th meeting of the Canadian Engineering Accreditation Board took place via webinar on June 6 & 7, 2020.

3108 ATTENDANCE

The following were in attendance:

Chair: L. (Luigi) Benedicenti, FEC, P.Eng.
Vice-Chair: R. (Robert) Dony, FEC, P.Eng.
Past-Chair: W. (Wayne) MacQuarrie, FEC, P.Eng.
Members: S. (Suzelle) Barrington, FIC, ing.
D. (Dan) Candido, FEC, P.Eng.
E. (Emily) Cheung, FEC, P.Eng.
P. (Pemberton) Cyrus, FEC, P.Eng.
W. (Waguih) EIMaraghy, FEC, P.Eng.
R. (Ray) Gosine, FEC, P.Eng.
P. (Paula) Klink, P.Eng.
S. (Suzanne) Kresta, FEC, P.Eng.
P. (Pierre) Lafleur, FIC ing.
A.M. (Anne-Marie) Laroche, ing.
J. (Julius) Pataky, P.Eng.
J. (Jeff) Pieper, FEC, P.Eng.
A. (Allen) Stewart, P.Eng.
R. (Ramesh) Subramanian, FEC, P.Eng.
T. (Tara) Zrymiak, FEC, P.Eng.

Secretariat: A. (Aude) Adnot-Serra
E. (Elise) Guest
J. (Johanne) Lamarche
A. (Alexander) Olivas
M. (Mya) Warken

Engineers Canada Director Appointee:

J. (Jeff) Card, FEC, P.Eng.

Observers: (the following were in attendance for all, or part, of the meeting)

K. (Kalina) Bacher-René (Engineers Canada Board Director)
V. (Victor) Benz, FEC, P.Eng. (Engineers Canada Board Director)

J. (Jean) Boudreau, FEC, P.Eng. (Engineers Canada President)
P. (Pierre) Bourque, ing. (incoming Accreditation Board member)
R. (Ranjan) Bhattacharya (Seneca College)
D. (Danny) Chui, FEC, P.Eng. (Engineers Canada Board Director)
K. (Kevin) Deluzio, P.Eng. (Queens University)
B. (Braulio) Duenas (Instituto de Calidad y Acreditación de Programas de Computación, Ingeniería y Tecnología)
R. (Rafik) Guindi, P.Eng. (Conestoga College)
H. (Hasril) Hasini (Board of Engineers Malaysia)
R. (Ryan) Huckle, P.Eng. (Conestoga College)
E. (Éric) Hudier, ing. (Université du Québec à Rimouski)
T. (Tim) Joseph, P.Eng. (Engineers Canada Board Director)
H. (Hossam) Kishawy, P.Eng. (University of Ontario Institute of Technology)
C. (Chung) Lim Law, P.Eng. (Board of Engineers Malaysia)
D. (David) Lynch, FEC, P.Eng. (Past-president, Engineers Canada)
M. (Mrinal) Mandal, P.Eng. (incoming Accreditation Board member)
C. (Christine) Moresoli, ing. (Waterloo University)
H. (Hassan) Naser, P.Eng. (Lakehead University)
J. (John) Newhook, P.Eng. (Dalhousie University)
J. (Jim) Nicell, P.Eng. (McGill University)
M.J. (Marie-Josée) Nollet (École de technologie supérieure)
J. (James) Olson, P.Eng. (McGill University)
J. (Jason) Ong (Engineers and Geoscientists British Columbia)
G. (Greg) Phillips, P.Eng. (Royal Military College of Canada)
G. (Gillian) Pichler, FEC, P.Eng. (Engineers and Geoscientists British Columbia)
S. (Stephanie) Price, P.Eng. (Engineers Canada Executive vice-president)
K. (Kelly) Reid, P.Eng. (Engineers Canada Board Director)
W. (William) Rosehart (University of Calgary)
C. (Changiz) Sadr, FEC, P.Eng. (Engineers Canada Board Director)
A. (Amin) Saiful (Board of Accreditation for Engineering and Technical Education)
C. (Caroline) St-Denis (École de technologie supérieure)
L. (Laura) Stoyco (Canadian Federation of Engineering Students)
P.J. (Pedro-Jose) Duran Talledo (Instituto de Calidad y Acreditación de Programas de Computación, Ingeniería y Tecnología)
B. (Beryl) Strawczynski (Engineers Canada staff)
C. (Charlie) Than (Myanmar Engineering Council)
T. (Tony) Thoma, P.Eng. (Conestoga College)
J. (Jimmy) Tullume (Instituto de Calidad y Acreditación de Programas de Computación, Ingeniería y Tecnología)
O. (Olman) Vargas (Colegio Federado de Ingenieros y de Arquitectos de Costa Rica)

3108 OPENING

3108.1 CALL TO ORDER AND APPROVAL OF AGENDA

The Chair called the meeting to order and provided the list of attendees in the slide deck. The confidentiality of the Accreditation Board proceedings was shared with all present.

The meeting's agenda was reviewed, and the following motion was carried unanimously:

MOTION:

“That the agenda be approved and that the Chair be authorized to revise the order of business as necessary to accommodate the needs of the meeting.”

3108.2 MEMBERSHIPS

L. Benedicenti provided a status update of Accreditation Board memberships.

On June 30, 2020 the following term changes will be effective:

- Wayne MacQuarrie’s term on the CEAB will come to an end
- Luigi Benedicenti will become past-chair
- Bob Dony will become chair
- Pierre Lafleur will become vice-chair
- Dan Candido’s term on the CEAB will come to an end
- Louis Champagne’s term as Engineers Canada Board appointee will come to an end

3108.3 NOMINATING SUBCOMMITTEE UPDATE

J. Card, Chair of the CEAB Nominating Committee provided an update on Accreditation Board membership.

Re-appointments

The following re-appointments were approved by the Engineers Canada Board at their May 2020 meeting for a three-year term from July 1st 2020 to June 30th, 2023.

- Pemberton Cyrus, representative for Atlantic region
- Suzanne Kresta, member-at-large
- Anne-Marie Laroche, member-at-large
- Julius Pataky, representing the British Columbia and Yukon region
- Jeff Pieper, member-at-large
- Tara Zrymiak, representative for Manitoba/Saskatchewan

New members

The following new members were approved by the Engineers Canada Board at their May 2020 meeting for a three-year term from July 1st, 2020 to June 30th, 2023.

- Pierre Bourque, member-at-large
- Mrinal Mandal, representative for Alberta / Northwest Territories and Nunavut

3109 CONSENT AGENDA

3109.1 Approval of the minutes

“That the minutes of the February 8, 2020 Accreditation Board meeting be approved as amended.”

3109.2 Follow up on action items from the minutes of the February 8, 2020 Accreditation Board meeting

3109.3 Approval of the minutes

"That the minutes of the April 9, 2020 Accreditation Board meeting be approved as distributed."

3109.4 Accreditation Board's observation of the April 4, 2020 Qualifications Board meeting

3109.5 Canadian Federation of Engineering Students update

Motion 3109

Moved by R. Subramanian, seconded by P. Cyrus

"That the consent agenda items 3109.1, 3109.2, 3109.3, 3109.4, and 3109.5, be approved."

Carried

3110 REPORTS TO THE BOARD

3110.1 Engineering Deans Canada (EDC)

J. Olson, Chair, Deans Liaison Committee (DLC) provided an overview of the changes that occurred at institutions across Canada due to the Covid-19 pandemic, including:

- Temporarily closed all campus activities and implemented:
 - Teaching and learning from home
 - Work from home with employment continuity
 - Research from home
- Institutional and personal investment in on-line pedagogy, training, and technology to prepare programs to be delivered online for one year
- Virtualization of labs, design projects, and capstone projects
- National collaboration to develop online resources, modules, etc.

J. Olson also provided a summary of the EDC's most urgent concerns including:

- Eliminate clauses 8 and 9 from appendix 3 *Interpretive statement on licensure expectations and requirements* as it is not supported by good pedagogy
- Address EDC's concerns about barriers to students participating in international exchanges
- Address EDC's concerns about workload associated with an accreditation process that is based both on Accreditation Units (AUs) and Graduate Attributes
- Work in partnership to modify accreditation regulations in light of the new and widespread capabilities institutions have mobilized to response to COVID-19

In subsequent discussion it was noted that:

- At their June 6 meeting, the Accreditation Board approved a motion to consult on the proposed changes to Appendix 3 of the Accreditation Criteria and Procedures
- The report titled *Statistical analysis on the time-variance of Accreditation Units (2001-2017)* is available on the Engineers Canada [website](#).
- Most student exchange experiences are meant to be one term in duration and are not meant to be a formal partnership between the home institution and the institution abroad.

ACTION ITEM:

Secretariat to forward the weblink to the report titled *Statistical analysis on the time-variance of Accreditation Units (2001-2017)* to J. Olson.

3110.2 Accreditation Board's attendance at the virtual May 7 & 8, 2020 Engineering Deans Canada meeting

B. Dony provided an update on the following items presented at the EDC meeting:

- CEAB activities & COVID-19 response
- Ongoing discussions with the Deans Liaison Committee including:
 - International student exchanges
 - AU distributions across curriculum categories
- 2020 Enrolment and Degrees Awarded Survey
- Consultations

3110.3 Update on the February 24 to 26, 2020, the April 8, 2020 and the May 22 & 23, 2020 Engineers Canada Board meetings

L. Benedicenti provided an update on the following topics of discussion:

February 24-26 (face-to-face)

- A strategic foresight workshop where participants discussed major trends, strategic risks, and the vision, mission, and values of Engineers Canada. They identified proposed elements for an organizational vision and brainstormed potential strategic priorities for the 2022-2024 strategic plan. Input will be compiled and shared, and the vision and strategic priorities list will be refined at the Engineers Canada Board June workshop.
- Operational imperative 9: Sub-strategy on Indigenous access to engineering was discussed. An amended motion was carried which tasked the Engineers Canada CEO to investigate, with appropriate consultation, options for truth and reconciliation efforts to be incorporated into engineering undergraduate education in Canada. The motion as originally proposed directed the CEAB to investigate, with appropriate consultation, the potential for the accreditation process to incorporate truth and reconciliation efforts and make recommendations to the Engineers Canada Board, on recommendation of the CEO.
- The Board discussed and approved the policy for assessments of directors, committee chairs, and of the Board itself, as well as the structure and content of the assessment surveys. The surveys were distributed on March 2 and closed on March 18. Board assessment results will be included in the Board's May meeting package.

April 8 (web meeting)

- Approval of the Engineers Canada financial statements for the fiscal year ending December 31, 2019, as audited by KPMG LLP, and that the financial statements be placed before the Members at the May 2020 Annual Meeting of Members for approval.
- Updates and actions due to the COVID-19 pandemic. L. Benedicenti discussed the impacts of the coronavirus on higher education institutions (HEIs) and on the accreditation process, and possible changes that might be necessary to respond to the new reality.

May 21-23 (web meeting)

- Board self-assessment report
- Motion to approve the CEAB appointments (six renewals and two new appointments)
- Motion to approve Operational imperative 6: Sub-strategy on actively monitoring, researching, and advising on changes and advances that impact the Canadian regulatory environment and the engineering profession
- Motion to approve the CEAB recommended change to Criterion 3.4.6 (reduction in minimum program AUs)
- Motion to approve the national position statement on Professional practice in cyber security
- Election of the president-elect

3110.4 Update on the Accountability in Accreditation Committee

The Accountability in Accreditation Committee is routed in Engineers Canada's strategic priority #2 which is to establish an annual assessment process to assess transparency and effectiveness of accreditation system to be designed collaboratively with stakeholders.

R. Gosine provided an update on the Accountability in Accreditation Committee whose members include:

- Ray Gosine, Chair
- Suzelle Barrington, member, industry
- Jeff Card, member CEAB, Engineers Canada Board representative
- Suzanne Kresta, member, academia
- Pierre Lafleur, member, P&P representative
- Matthew Oliver, regulator representative

The Engineers Canada strategic priority (SP2) has directed the CEAB to:

- Strike the (permanent) Accountability in Accreditation Committee
- Create a documented, annual measurement of the transparency and effectiveness of the accreditation system

The framework development timelines shifted as a result of the COVID-19 pandemic and the availability of committee members to finalize the materials. As a result, the contract with Higher Education & Beyond was extended from the end of March to the end of May 2020 while maintaining the original scope.

On May 11, the Accountability in Accreditation Committee approved the Accountability in Accreditation Evaluation Strategy. The strategy provides the framework, tools, and processes for the CEAB to assess and inform the effectiveness, trustworthiness, transparency and efficiency of the accreditation process, as required by Strategic Priority #2. The evaluation strategy includes outcomes of the accreditation system, measures of those outcomes that are clearly worded and can be asked on feedback forms, data collection plans, timelines, analysis plans and reporting plans. The committee provided a full description of the strategy in the agenda and is now bringing forth the strategy for approval. The strategy would be implemented starting June 2020 with surveys being sent to institutions receiving a decision in June 2020 from visits during the 2019/2020 cycle and to all regulators.

Given the limitations of data collection in 2020/2021, the CEAB could consider delaying implementation of the strategy by one year. However, the Committee suggested there

is value in implementing this year and noting the limitations of the data in the first year of reporting.

The following motion was carried unanimously:

"THAT the Accountability in Accreditation Committee evaluation strategy be approved for implementation starting June 2020."

In subsequent discussions, it was noted that:

- the same questions were being asked of visit chair, vice-chairs and volunteers in the survey and suggested that because vice-chairs are normally CEAB members that there is no need to ask them the same questions.
- Consider accessibility standards and not rely on color coding for the dashboard. Instead, consider using three different columns to identify assessment results.
- Consider moving the last indicator in outcome 3 to either outcome 5 or 6.
- Consider undertaking an Accreditation Board effectiveness assessment similar to the one by the Engineers Canada Board. This would then be an input into the overall assessment of the effectiveness and transparency of the accreditation system.

3110.5 Accreditation Board fall 2020 and winter 2021 visits

M. Warken provided an update on the 2020/2021 visits.

At their April 9, 2020 meeting, the CEAB approved the following motion:

"THAT visits to currently accredited programs in the 2020/2021 cycle be deferred for one year to the 2021/2022 cycle."

"THAT a one-time, one-year accreditation cycle extension be granted to all programs who received a favorable accreditation decision before June 5, 2020."

The Engineers Canada Board subsequently approved the CEAB's recommendation at their meeting on April 28, 2020.

The Secretariat has communicated with each institution impacted by the April 9 decision of the Accreditation Board, in writing on May 20, 2020.

While visits to currently accredited programs in the 2020/2021 cycle have been deferred, visits to five new programs will be maintained if health and government directives allow the visits to proceed, unless the institution decides to postpone the visit. If in-person visits are not possible, the CEAB will work with regulators and the institutions to determine how the accreditation process could be adapted to adequately evaluate the new program(s).

ACTION ITEM:

The Secretariat to present the revised visit schedule at the September 2020 meeting.

3110.6 Anticipated visits 2021-2025

As a result of the approved motion noted in section 3110.5, the Secretariat will provide an updated schedule of anticipated visits 2021-2025 at the September CEAB meeting.

ACTION ITEM:

The secretariat to review the list as one Board member mentioned that the University of Windsor was missing from the list.

3111 ACCREDITATION ACTIVITIES

3111.1 Member Assignments for the September 2020 Accreditation Board Meeting

11 programs at six institutions are due to submit a report to the Accreditation Board on June 30, 2020. The preliminary member assignments were provided for information. The Secretariat and the Executive Committee make the preliminary member assignments while considering the following elements:

- Conflicts of interest
- Avoiding assigning the previous visiting team chair to the role of presenter or lead reviewer
- Language
- Experience

Any report received by June 30, 2020 will be assigned to a review team and the CEAB will make an accreditation decision on these reports at their September 2020 meeting.

The CEAB's recent decision to grant a one-year accreditation cycle extension to all programs who received a favorable accreditation decision before June 5, 2020 extends the due date for each of these reports. The Secretariat has communicated with each institution impacted by this decision.

3111.2 Programs under development

L. Benedicenti presented the list of programs under development. Meeting participants were encouraged to report anything of interest related to this issue. No changes were reported.

3112 ACCREDITATION DECISIONS - ABRIDGED

3113 POLICIES AND PROCEDURES

3113.1 Update on the May 6 & 7, 2020 Policies and Procedures Committee / Deans Liaison Committee meetings

B. Dony provided a summary of the May 6 & 7, 2020 Policies and Procedures Committee / Deans Liaison Committee meetings.

The following agenda items were discussed:

- Impact of COVID-19 on HEIs and the accreditation process/criteria/policies
- Proposed approach to streamlining international exchanges for students
- CEAB working group on instructions for onsite materials

- Expanding scope of accreditation process to include student mental health, gender parity, etc.
- Outcomes from Ottawa dinner – Consultation process with regulator CEOs
- Additional white paper recommendations (learning unit, graduate attributes, etc.)
- Independent review of the engineering professional accreditation system in Canada
- Onboarding of new faculty/departments and schools – Enabling new hires that are new applicants for licensure to teach specified AUs with oversight from a licensed engineer

The next meeting of the P&P and DLC will be scheduled to occur in the Fall, 2020.

3113.2 Policies and Procedures Committee report

On April 30 and May 6, 2020, the P&P met to discuss business arising from previous meetings and the items on their 2020 workplan, as well as one new piece of business.

The following agenda items were discussed:

- International student exchange and the purpose of specified AUs
- Accreditation deferrals due to COVID-19
- Provision of paper copies of submission materials to program visitors
- Review of the P&P Terms of reference
- Frequency of changes to the Questionnaire
- Counting AUs – from sig figs to whole numbers
- Updating and publishing Engineers Canada report on Washington Accord accreditation and licensing systems
- Volunteer management
- Support of the 30 by 30 initiative
- APEGA National Entry to Practice exam

Next steps

- The in-person summer meeting of the P&P will likely be replaced by two virtual meetings.
- The September 2020 meeting was previously scheduled to be held in Vancouver, but planning will be subject to public health recommendations and travel restrictions.

3113.3 Clauses 8 and 9 of Appendix 3 – Interpretive statement on licensure expectations and requirements

The Engineering Deans Council (EDC) submitted to the Policies and Procedures (P&P) Committee a “statement on the implications of CEAB accreditation policies on modern curriculum design.” The statement notes that “restrictions on AU distributions, particularly category minima and limitations on the number of categories that can be represented in a particular course, are an impediment to curriculum reform and are unnecessary constraints in a highly constrained process. These constraints on the quantification of course content are now in direct contradiction to the spirit of the outcomes-based assessment and the continual improvement process.”

To address the concerns raised above, the EDC’s originally requested that clauses 9 and 10 (now 8 and 9) be removed from the Interpretive Statement on licensure expectations and requirements. However, following further discussion with the

group, the following language was proposed by the EDC and found support at the February 2020 P&P meeting:

8. Engineering science, engineering design, natural science, mathematics and complementary studies curriculum content should be readily and easily identifiable in each course where they appear.

9. For any course having one or more curriculum categories (ES, ED, NS, Math, CS) constituting less than 10% of the total AU count, the institution should ensure that sufficient course materials are available to support the AU distribution.

The P&P recommended that the CEAB now consult with stakeholders on the proposed amendment to the Interpretive statement on licensure expectations and requirements.

The following motion was carried unanimously:

"THAT the P&P consult with stakeholders on proposed changes to Clauses 8 and 9 in Appendix 3 of the CEAB Accreditation Criteria."

ACTION ITEM:

The secretariat to verify the French translation of Clause 8 and 9.

3114 INTERNATIONAL RELATIONS

3114.1 Washington Accord general information

L. Benedicenti provided a brief description of the role of the Washington Accord of which Engineers Canada is a signatory. He noted that the next International Engineering Alliance meeting will be held virtually in June 2020.

3114.2 Engineers Canada monitoring visit update

M. Warken presented this item.

A monitoring team is currently scheduled visit in 2020 with the visit report heard at the June 2021 meeting of the International Engineering Alliance. The monitoring team is drawn from the following Signatories:

- Turkey – MUDEK
- Japan – JABEE
- United Kingdom - ECUK

The review team typically receives a presentation on Engineers Canada's accreditation processes and policies and accompanies CEAB teams to two visits (currently scheduled to occur at the University of Ottawa and the Université de Moncton).

Due to travel restrictions due to the COVID-19 pandemic, the CEAB has deferred the 2020/2021 accreditation visit cycle. Only the five new programs that have submitted requests for accreditation will be evaluated. The accreditation process may need to be adapted to accommodate the restrictions on travel, and, therefore, physical accreditation visits may not occur in the 2020/2021 visit cycle.

The Washington Accord Secretariat has been advised of the CEAB's decision to defer 2020/2021 visits to currently accredited programs. Engineers Canada is awaiting further information about what, if any, monitoring of the accreditation system will take place in 2020.

Next steps

- Secretariat will keep the members apprised of any updates related to the Washington Accord monitoring visit

3114.3.1 Application for signatory membership to the Washington Accord – Institution of Engineers Bangladesh (IEB)

The report of the Washington Accord review team on the Accreditation system of the Institution of Engineers Bangladesh (IEB) was reviewed by J. Pieper and P. Klink.

Their observations included the following:

- Bangladesh seems to have put together a good system that works well
- The demographic background of everyone involved was represented equally by industry and academia

The following motion was carried unanimously:

“That the Canadian Engineering Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support, that, in accordance with Rule B.2.2.3 d), the signatories approve the establishment of a IEB BAETE Verification Review team, comprising three Assessors who have not served as nominators and/or mentors of IEB BAETE.”

3114.3.2 Application for signatory membership to the Washington Accord – Institution of Engineers Indonesia

The report of the Washington Accord review team on the Accreditation system of the Institution of Engineers Indonesia (IABEE) was reviewed by S. Barrington and T. Zrymiak

Their observations included the following:

- IABEE's conflict of interest rules are quite strict. They may be difficult to implement but their policy was admirable.
- IABEE is funded by accreditation fees.
- IABEE reported on an extensive list of criteria that must be met for admission as a signatory. It appeared to be a challenge to produce an appropriate response and/or evidence to demonstrate compliance.

The following motion was carried unanimously:

“That the Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support that, in accordance with Rule B.2.2.3 d), the signatories approve the establishment of a Verification Review team, comprising three Assessors who have not served as nominators and/or mentors of PII IABEE.”

3114.3.3 Verification review – *Colegio Federado de Ingenieros Y Arquitectos de Costa Rica (CFIA)*

The report of the Washington Accord review team on the Accreditation system of the *Colegio Federado de Ingenieros Y Arquitectos de Costa Rica (CFIA)* was reviewed by E. Cheung and P. Cyrus

Their observations included the following:

- The programs that were observed by the WA team and accredited by CFIA were substantially equivalent in engineering education and graduate attributes to those of the WA signatories; the CFIA evaluation team was effective in evaluation of programs involved in these institutions while the CFIA Accreditation Board was rigorous and effective in making the accreditation decisions for these programs.
- CFIA has a strong legal position in the engineering community of Costa Rica; it has the human, financial and organizational resources to sustain the accreditation activities.
- CFIA has significant experience in accreditation as the result of a long term collaboration with Engineers Canada.
- The governance, policy and operational procedures are well documented. The procedures and forms used in the accreditation process are quite clear and effective. 2
- Accreditation criteria are comprehensive and robust; they cover the graduate attributes that are substantially equivalent to the WA Graduate Attributes.
- The evaluation team members (from academia and industry) are well trained and experienced; the teams are also strengthened with international evaluators.
- CFIA has well educated and experienced officials that coordinate the accreditation process.
- Significant review completed by the IEA Signatories took place in February and November of 2019. Numerous issues were raised including requests for clarification of the accreditation agencies within CR and what the relationships are between them. Other than this outstanding issue, responses were provided that provided sufficient detail. Currently there is no formal agreement in place since the previous agreement between the agencies expired. A list of suggestions for improvement were provided in the signatory report all of which would be considered appropriate suggestions. Detailed suggestions were also made that may be useful for all CEAB members to consider including sufficient information in the self-assessment report prior to visit, single specialist evaluator per program, platform programs improvements, documentation of student performance, as well as others. A comparison was provided of the other signatories and their own processes of accreditation including differences.

The following motion was carried unanimously:

“That the Canadian Engineering Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support the Colegio Federado de Ingenieros Y Arquitectos de Costa Rica (CFIA), holding provisional status be made a signatory and the date at which recognition by the other signatories of the substantial equivalence of the engineering academic programs concerned shall be one year prior to the date of admission to signatory status.”

3114.3.4 Verification review – Consejo de Acreditacion de la Enseñanza de la Ingeniería, Mexico (CACEI)

The report of the Washington Accord review team on the Accreditation system of the Consejo de Acreditacion de la Enseñanza de la Ingeniería, Mexico, (CACEI) was reviewed by J. Pataky and R. Gosine.

Their observations included the following:

- CACEI was asked to provide answers to a checklist of recommendations of which some of the items requested had not been implemented, specifically related to graduate attributes and continuous improvements.
- It has come to Engineers Canada's attention that CACEI is in contact with the Washington Accord as they are not satisfied with the Verification Visiting Team's recommendations. As a result, the motion put forth at the International Engineering Alliance meeting may be different from the one presented to the CEAB, depending on the outcome of those discussions.

The following motion was carried unanimously:

“That the Canadian Engineering Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support the Consejo de Acreditacion de la Enseñanza de la Ingeniería, Mexico, (CACEI), holding provisional status be declined becoming a signatory, but that provisional status be extended for a further period of two years.”

3114.3.5 Periodic review – National Board of Accreditation - India (NBA)

The report of the Washington Accord review team on the Accreditation system of the National Board of Accreditation - India (NBA) was reviewed by P. Lafleur and A.M. Laroche

Their observations included the following:

- The standard of the graduates of the Washington Accord equivalent, i.e., Tier 1 accredited programs are substantially equivalent to graduates of other Accord signatories;
- The tier-based NBA's accreditation system is well developed and is led by experienced professionals and administrative staff, working in collaboration with relevant academic and engineering industry stakeholders;
- The outcome-based accreditation system, criteria, rules and procedures are well-documented and sustainable, and the accreditation activities follow the documented process; and,
- The Visiting Team Chairs and Program Evaluators are well-qualified to carry out accreditation.

The following motion was carried unanimously:

“That the Canadian Engineering Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support the acceptance of the National Board of Accreditation, India (NBA), for a period of six years, as leading to outcomes substantially equivalent to those recognized by the Accord.

Recognition of programmes accredited by NBA is restricted to Tier 1 institutions only. These institutions and their accredited programmes shall be listed on the web-based

Register unambiguously as Tier 1 institutions with programmes ac-corded WA status ”.

3114.3.6 Periodic review – Engineering Council UK (ECUK)

The report of the Washington Accord review team on the Accreditation system of the Engineering Council UK (ECUK) was reviewed by B. Dony and R. Subramanian

ECUK received a monitoring review in 2017, they were given a decision last year that they were to provide a progress report on issues. After the CEAB reviewed the report they agreed that the report was not fully compliant in the it did not satisfy CEAB that adequate steps were being taken to address the issues of the monitoring report.

The following motion was carried unanimously:

“That the Canadian Engineering Accreditation Board recommends that the Engineers Canada delegation to the Washington Accord support:

1. That the signatories endorse the WA Chair determination of signatory intent regarding the timing of the ECUK review required consequential to their vote at IEAM19 by offering a route that would delay a review. This determination establishes a precedent consistent with the IPEA/APEC decisions on the same rule wording. She offered this to provide ECUK with the opportunity to operationalise its plan ready for signatory review, not to replace signatory review. Review rather than reliance on self-certification is a core element of IEA due diligence.

*2. That the signatories of the Washington Accord accept the three reports (Dec 2018, April 2019 and 20 Feb 2020) provided by the ECUK as satisfying the other signatories that adequate steps are being taken to address the specific issues identified by the monitoring team. *This will confirm the acceptance of the ECUK for two years to IEAM21 as required by the 2018 and 2019 decisions.*

3. That, consistent Accord Executive deliberations on Rule 3.5.3 in Singapore in Dec 2019 and the precedence emerging from the IPEA/APEC discussion/decisions, the signatories vote to establish a targeted review on the basis that review rather than reliance on self-certification is a core element of IEA due diligence. The targeted review to focus on progress to address the issues of concern raised during the 2017 Periodic Review.”

3115 NEW BUSINESS

3115.1 September 2020 workshop topics

L. Benedicenti facilitated a discussion on possible topics for the Accreditation Board workshop in September 2020. He noted that as the Accreditation Board will not be conducting accreditation visits in 2020 that the following topics of discussion which were recommended at the February 2020 AB meeting be suggestions for the September 2021 workshop.

- Unconscious Bias
- A workshop for new CEAB member on How to Chair a visit and how to build your team
- How to prepare program visitors for their role on the visiting team (a train-the-trainer model). One area of focus could be how to manage visiting team members' expectations in terms of Graduate Attribute assessment data.

Board members provided the following suggestions for the September 2020 AB workshop:

- Debrief and additional training of the checkmark / asterisk method with visiting team observations in the report.
- Focus on the definition and utility of ‘concern’, ‘weakness’, and deficiency in accreditation decisions.
- Elaboration of the unconscious bias topic to encourage members to take a step back from the details and examine the foundational principles of the Accreditation Board’s work and avoiding the temptation to uphold traditional approaches to that work.
- An examination of the Accreditation Unit and the Learning Unit as conceived by the AU Task Force considering COVID-era changes to undergraduate education delivery methods.
- An examination of the accreditation criteria as a whole to determine their ongoing relevance considering the evolution of education over time.
- The future of the accreditation visit model post-COVID-19
- Strategies to evaluate the effectiveness of the Accreditation Board
- Authentic assessment
- Offer a specific workshop for new program visitors for the upcoming cycle

3115.2 Comments from Observers

- D. Lynch, Past-President, Engineers Canada, expressed his thanks on behalf of the Engineers Canada Board for the work of the Accreditation Board.
- Others remarked that:
 - The meeting was well organized
 - Having bilingual meeting agenda PowerPoint slides was appreciated
 - Conversations around accessibility and readability of CEAB work products was appreciated
 - Discussions around ethics and diversity in undergraduate engineering programs was encouraged
 - The Accreditation Board’s flexibility and accommodations for students graduating from new programs in 2021 was appreciated
 - Comments from Accreditation Board members regarding the presentation from the Canadian Federation of Engineering Students are welcome (to be directed to Laura Stoyco at socialissues@cfes.ca)

3116 FUTURE MEETINGS

Proposed future dates and locations for the Accreditation Board meetings were presented.

Current schedule for 2020/2021

2020 meeting:

- Fall meeting and workshop: September 19 & 20 in Vancouver, BC.

2021 meetings:

- Winter meeting and workshop: February 13 & 14 in Ottawa, ON.
- Spring meeting: June 5 & 6 in Ottawa, ON.
- Fall meeting and workshop: September 18 & 19 in Charlottetown, PEI (*tentative*)

M. Warken noted that the face-to-face Fall 2020 meeting and workshop may be changed to a virtual meeting.

ACTION ITEM:

Secretariat to send the new proposed 2021 winter meeting and workshop dates to the Accreditation Board members to seek their availability for February 6 & 7, 2021.

3117 SUMMARY OF ACTION ITEMS

M. Warken listed the summary of action items and are included in these minutes as appendix "A".

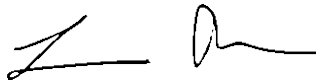
3118 MEETING EVALUATION BY ACCREDITATION BOARD MEMBERS

3118.1 Meeting Evaluations Report

Members were reminded to use the link to the electronic survey provided in the agenda to submit their evaluation.

3119 ADJOURNMENT

The 167th meeting of the Canadian Engineering Accreditation Board adjourned at 21:10 on Sunday, June 7, 2020.



Luigi Benedicenti, FEC, P.Eng.
Chair



Mya Warken
Secretary