

Welcome and Introductions

CAETS President Oh-Kyong Kwon opened the meeting by greeting all participants, with a special welcome to representatives from newly elected member academies: Royal Society Te Aparangi of New Zealand, Nigerian Academy of Engineering, and Academy of Engineering Sciences of Serbia. He also welcomed the Irish Academy of Engineering, participating in observer status. He then turned to Secretary/Treasurer Ruth David to introduce each agenda item.

1. Approval of Agenda

The meeting agenda was approved as presented.

2. Approval of Council Minutes of 27 June 2019

Council minutes from 27 June 2019 were approved as presented.

3. Report from the 12 October 2020 Meeting of the Board**a. Information: 2019 Audit Committee Report**

The Treasurer reported that the 2019 financial audit was completed without issues, noting that a copy of the summary financial statements was provided in the meeting materials, and thanking David Thomlinson (RAEng) for his service as Chair of the Audit Committee. She noted that at year end 2019 Operating Expenses were nearly \$15, 000 below budget, but Reserve Expenses (unbudgeted) of \$41,635 had been incurred by three visiting committees performing site visits for membership applications from New Zealand, Nigeria, and Serbia. That resulted in a net decrease in reserves of approximately \$21,000 when accounting for Reserve Contributions by the newly elected member academies. She also projected an underrun in the 2020 Operating Expenses of at least \$30,000 due to the lack of travel and related expenses and indicated that CAETS Reserves should be fully restored to by the end of 2020.

The Treasurer also noted that an issue was identified during a pre-review of the CAETS 2019 financials by the NAE Chief Financial Officer relating to the disparity between dues payable and dues received stemming from transfer fees and/or currency fluctuations. After discussion, the Board had agreed that a new business procedure should be implemented to note on annual dues invoices any deviation (positive or negative) relating to the prior year payment, and adjusting the current dues invoice by that amount; this procedure will be implemented beginning with the 2021 Dues Invoices.

b. Information: Approved 2021 Operating Budget

The Treasurer reported that the Board had approved the 2021 Operating Budget as presented and that a copy was provided with the meeting materials.

c. Information: Conduct of Working Groups/Committees

The Secretary reported that the Board briefly discussed how CAETS decides when to establish new working groups/committees and also how their activities might more effectively be supported. The Board agreed that the details should be worked in conjunction with the next steps of CAETS strategy development and implementation.

4. Administrative Items

a. Approval of 2021 Rotation Schedule

The Secretary noted that the CAETS rotation schedule was provided in the meeting materials and that annual meeting hosts for 2023 (Croatia) and 2024 (Finland) had been confirmed. She also reported one change in the 2020 Rotation Schedule: Denmark asked to defer their nomination of a Board member and Switzerland agreed to submit a nominee in their place. In accordance with the 2021 Rotation Schedule presented, nominations include: Croatia (President-Elect), and Norway, South Africa, Denmark, and New Zealand (Board Members). The Rotation Schedule was approved as presented.

b. Approval of 2021 Dues Schedule

The Secretary noted that the 2021 Dues Schedule was provided in the meeting materials and that dues payable amounts remained unchanged. The Dues Schedule was approved as presented.

c. Information: Future CAETS Meeting Schedule

- i. 2021: Buenos Aires, Argentina – September 20-23
- ii. 2022: Paris, France – March 21-25

The Secretary noted that the future CAETS meeting schedule was as shown on the agenda; additional information will be provided during upcoming agenda items.

5. Election of Board Members for 2021-2022

The Secretary introduced the slate of candidates for Board positions beginning in 2021, noting that a change had been made in the acatech nominee, but that the updated biography was provided in the meeting materials. The Board approved the election of the Board Members shown below.

President-Elect: Pascal Viginier, France (NATF)

Board Member: Ulrich Wagner, Germany (acatech)

Board Member: Elisabeth Monard, Belgium (BACAS)

Board Member: Rita Hofmann-Sievert, Switzerland (SATW)

Board Member: Nasim Khan, Pakistan (PAE)

6. Information: CAETS Strategic Plan Next Steps

CAETS Past-President Tuula Teeri (IVA) provided an update to the Council regarding the status of the strategic planning effort. She introduced a proposed revision of the CAETS

Bylaws – Article 1. Objectives: addition of an objective specifically relating to CAETS *promotion of diversity, inclusion, and ethics in the global engineering profession* as well as other minor revisions. She also introduced two options for structuring CAETS to more effectively achieve its objectives via the activities of its committees/working groups. She reported the following next steps: Refine specific proposals and gain approval of current Board Members by 31 December; socialize with and gain approval of incoming Board Members by 28 February 2021; socialize with entire Council through 31 May 2021; final language for any proposed Bylaws changes provided to Council 90 days in advance of 2021 Annual Meeting to support Council decision-making.

7. Information: CAETS 2021 Status Update

CAETS President-Elect Manuel Solanet (ANI) provided a brief overview of the CAETS 2021 program, which will be held in Buenos Aires, Argentina from 20-23 September. The event venue will be the Sheraton Hotel; the technical conference theme is *Engineering a better world: The Future of Energy*. He noted that ANI would begin inviting speakers and panelists by December 2020, would issue a call for papers on 1 April 2021, and that registration would open on 1 July 2021. He also shared a video introducing Argentina to CAETS members.

8. Information: CAETS 2022 Status Update

Bruno Revellin-Falcoz (NATF) gave opening remarks regarding CAETS 2022, which will be held in Paris, France from 21-25 March 2022, and then introduced Gerard Creuzet, NATF President of CAETS 2022 Organization Committee, to provide additional details. The event venue will be the Palais des Congres at Versailles; the theme for the technical conference is *Engineering a better world: Technological Breakthrough for Health*.

9. Committee Report: Energy

Chinho Park (NAEK), Chair of the CAETS Energy Committee, summarized the activities of the committee, indicating that a report titled “Solutions for High-Level Penetration of Intermittent Renewable Energy” is in final draft, with a target publication date of December 2020. The report will: 1) Compare each country’s status quo in the energy mix; 2) Showcase new technologies that offset intermittency; and 3) Offer policies that control the energy market to reduce intermittency. The committee is also considering an external communications strategy targeting key international bodies.

10. Committee Report: Communicating with the Public

Hugh Bradlow (ATSE), Chair of the CAETS Communications Committee presented a proposal for a CAETS Communications Prize developed in alignment with committee objectives: 1) Improve communications of technology policy to government and the public; 2) Inspire young people with the importance of engineering and technological sciences; and 3) Improve understanding of the important benefits of technology among the general public. The prize is designed to inspire students with engineering success stories and to show the general public how engineering changes their lives for the better.

This proposal was endorsed by the CAETS Board, which recommended approval by the Council. The Council voted to implement the proposal, with the first prizes to be awarded during the CAETS annual meetings in Buenos Aires in September 2021.

11. Working Group Report: Diversity and Inclusion

David Thomlinson (RAEng), Chair of the CAETS Diversity & Inclusion Working Group, delineated the purpose of the group, which is to share best practice among Academies in embedding diversity and inclusion into their Fellowships and activities, and to think of the role CAETS can play in disseminating best practice among Academies. He briefly summarized key messages identified during the group's initial meeting on 8 October 2020, as well as next steps, which include three future meetings to share more in-depth learning on D&I in Fellows, D&I in programs, and building inclusive cultures.

12. Working Group Report: Sustainable Development Goals

David Thomlinson (RAEng), Chair of the CAETS SDG Working Group, delineated the purpose of that group, which is to build the capacity of academies to take more leadership roles in sustainability policies by sharing knowledge and best practice on how the engineering profession is influencing, driving and leading progress towards sustainability targets at a national level. He reported that during its initial meeting on 29 September the discussion focused on academies' engagement in national sustainability plans, and looked for examples of good engineering leadership. Key learnings were captured and next steps were identified, including an intent to host three additional zoom meetings (quarterly), with an initial focus on national sustainability policies, particularly decarbonization.

13. Working Group Report: Engineering Education

Jesse Zhu (CAE, Canada), Chair of the CAETS Engineering Education Working Group, discussed a (virtual) Global Engineering Education Conference that the Canadian Academy of Engineering is proposing to host in the February-March 2021 timeframe. During the working group meeting on 7 October, CAETS sister academies were invited to co-organize the meeting; member response was positive. As a result, he offered CAETS an opportunity to become a recognized co-sponsor for the conference. He indicated that the working group would meet again on 21 October to begin development of the conference program. After discussion, the Council decided to defer a decision regarding CAETS co-sponsorship of the conference; a final decision will be subject to Board review and approval of the conference program.

14. Committee Report: COVID-19

Youn Hee Choi (NAEK), Chair of the CAETS COVID-19 Special Committee, summarized the outcomes from the committee's initial discussion on 12 October 2020. The purpose of the committee is to determine what role engineering professionals can play in overcoming the difficult situation of COVID-19. During its initial meeting the committee identified as its main agenda "Lessons Learned from COVID-19 and Future Directions for Engineering Innovation." The committee drafted a proposed CAETS statement focusing on three



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measures that were shared with the Council. The proposed statement will be further refined prior to distribution to the Council members for their review.

The Council Meeting entered into Executive Session with CAETS member academies only.

15. Membership Application – The Irish Academy of Engineering (IAE)

The Secretary reported that the IAE submitted an application for membership in March of 2020 and that the full application was posted on the CAETS website, with a brief summary included in Council meeting materials. She also noted that due to ongoing travel restrictions the EXCOM decided a virtual meeting would be scheduled in lieu of a site visit; the agenda and a summary of that meeting was also provided in Council materials. Tuula Teeri, CAETS Past-President, led the CAETS delegation, which included Panu Nykanen (CoFA) and Ruth David (Secretary/Treasurer) during the virtual visit. Tuula summarized the outcomes from the discussion, strongly recommending election of IAE into CAETS—a recommendation endorsed by all members of the CAETS delegation.

The Irish Academy of Engineering was elected into CAETS with an affirmative vote by all members present and voting.

The Secretary reported that the EXCOM recommended initial annual dues for IAE of \$1030, which is consistent with recent past practice. The Council voted in agreement, setting IAE's annual dues at \$1030.

16. New Business

The Secretary invited members to introduce new business items. Sanak Mishra (INAE) observed that it was important to establish a consistent lexicon for describing CAETS activities, noting the current use of committees, working groups, and discussion groups without meaningful distinction. This issue will be addressed during the strategic planning process. There being no further new business, the agenda was turned back to President Kwon.

17. Recognition of CAETS Service

President recognized and thanked the following individuals for their service to CAETS:

Tuula Teeri, Officer (2018-2020), CAETS President 2019, Sweden
Hugh Bradlow, Board (2019-2020), Australia
Xiaohong LI, Board (2019-2020), China
Panu Nykanen, Board (2019-2020), Finland
Sanak Mishra, Board (2019-2020), India

18. President Kwon adjourned the meeting at 1655 (KRT).

Council Member Attendees

Argentina	Manuel Solanet (President); Oscar Vignart (Past-President)
Australia	Hugh Bradlow (President); Kylie Walker (Executive Director, Policy)
Belgium	
Canada	Jesse Zhu (Chair, CAETS Education Committee)
China	Zhijia Zhong (Vice President), Hongtao Ren (Director, International Cooperation)
Croatia	
Czech Republic	
Denmark	Martin Bech (Senior Advisor)
Finland	Panu Nykanen (Secretary General)
France	Pascal Viginier (President); Bruno Revellin-Falcoz (Delegate for Foreign Affairs), Gerard Cruzet (Deputy Delegate for Foreign Affairs); Wolf Gehrisch (Fellow)
Germany	Ulrich Wagner (CAETS Representative), Diana Xu
Hungary	Miklos Bendzsel (President)
India	Sanak Mishra (President)
Japan	Hideaki Koizumi (Distinguished Fellow); Koichi Morimoto (International Affairs)
Korea	Oh-Kyong Kwon (President); Chinho Park (Energy Cmte); Inkyu Lee
Mexico	Monica Barrera Rivera (Vice President)
Netherlands	Lucas Noldus (International Affairs); Margrethe Jonkman (President)
New Zealand	Geoff Chase (CAETS Representative); Andrew Cleland (Chief Executive)
Nigeria	Alex Ogedegbe (President); Eme Ijioma (Treasurer); Titi Omo-Ettu (Executive Secretary)
Norway	Gisle Johanson (Secretary General); Tor Inge Waag (Secretary General Elect)
Pakistan	Jameel Ahmad Khan (President)
Serbia	Sanja Vranes (CAETS Representative)
Slovenia	Stane Pejovnik (Secretary General)
South Africa	Elsabe Kearsley (Vice President); Trueman Goba (President)
Spain	Jaime Dominques (CAETS Representative); Eloy Alvarez (Secretary General)
Sweden	Tuula Teeri (President); Elin Elliot (International Secretary)
Switzerland	Rolf Hugli (Secretary General)
United Kingdom	David Thomlinson (International Secretary); Shane McHugh (International Partnerships)
United States	John Anderson (President)
Uruguay	Julio Fernandez (President); Adriana Gambogi (Secretary)

Observers

Ireland	Jim Browne (President)
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