



EXCOM Meeting Agenda

Schedule: TBD

EXCOM Members

Tuula Teeri, President
Oh-Kyong Kwon, President-Elect
Lucio Caceres, Past-President
Ruth David, Secretary/Treasurer

Additional Participants

Magnus Breidne (IVA)
Narai Kim (NAEK)
Adriana Gambogi (ANIU)

1. Welcome and approval of agenda Tuula Teeri
 2. EXCOM Minutes of 14 March 2019 Tuula Teeri
Action: Approval
 3. Report of the Secretary/Treasurer Ruth David
 - a. **Information:** 2019 Dues Receipts
 - b. **Information:** 2020-2021 Dues Schedule **Action:**
Consider Board-Chartered Task Force Tuula Teeri
 - c. **Information:** Rotation Schedule
 - d. **Information:** 2020 Board Nominees
 4. 2019 CAETS Annual Meetings Status Update IVA
 - a. 2019 CAETS "Reflections"
 5. 2020 CAETS Annual Meeting Status Update NAEK
 6. 2021 CAETS Annual Meeting Status Update Ruth David
 7. **Information:** Member Applications Ruth David
 - a. New Zealand
Action: Initial Dues Recommendation to Council Tuula Teeri
 - b. Nigeria
Action: Initial Dues Recommendation to Council Tuula Teeri
 - c. Serbia
Action: Initial Dues Recommendation to Council Tuula Teeri
 8. New Business
- Adjourn

Thursday, 14 March 2019

EXCOM Members

Dr. Tuula Teeri (President)
Acad. Eng. Lucio Cáceres (Past-President)
Prof. Oh-Kyong Kwon (President-Elect)
Dr. Ruth David (Secretary/Treasurer)

Additional Participants

Magnus Briedne, IVA
Adriana Gambogi, ANIU
Narai Kim, NAEK
Inkyu Lee, NAEK

1. Welcome and approval of agenda
The agenda was approved as presented.
2. **ACTION:** Approval of EXCOM Minutes of 30 August 2018
The minutes were approved as presented.
3. Report of the Secretary/Treasurer
 - a. 2018 Financial Statements
The Secretary/Treasurer reported that the 2018 Financial Audit was underway, and that Trueman Goba (SAAE) was serving as co-chair for his second year.
 - b. 2019 Dues Status
The Secretary/Treasurer reported that all but 7 members had paid their 2019 dues, which were payable by 31 January 2019.
 - c. 2020 Board Nominees
The Secretary/Treasurer reported the nomination of Manuel Solanet (ANI) as President-Elect in 2020. While no other Board Nominees had been confirmed, two academies (CAE and RAEng) had indicated their intent to do so. No response had been received from the other two academies (EA CR and NTVA).
 - d. 2020 Rotation Schedule
The Secretary/Treasurer presented the draft 2020 Rotation Schedule for information.
 - e. Website Update
The Secretary/Treasurer reported that the new site was hosted and that design and content development was progressing.
4. 2019 CAETS Annual Meeting: 24-28 June 2019, Stockholm, Sweden
 - a. Status Update: IVA
Magnus Briedne reported that planning and logistics were progressing well and that the symposium schedule was nearly complete. He observed that 12 member academies were represented on the program.
 - b. CAETS Statement: IVA
Discussion of the CAETS Statement was deferred to New Business.

5. 2020 CAETS Annual Meeting: 22-25 June 2020, Seoul, South Korea
 - a. Status Update: NAEK

Inkyu Lee reported that NAEK had formed a planning committee and that initial efforts were progressing well. The committee is working to refine more detailed topics under the “Smart Society” theme and is beginning to recruit speakers.
6. 2021 CAETS Annual Meeting: Argentina
 - a. Status Update: Secretary/Treasurer

The Secretary/Treasurer reported that she had been in contact with ANI and had received confirmation of their intent to host CAETS 2021 with a focus on energy. More details will be provided during the annual meeting of the Council. Lucio Caceres reported that he also had been in contact with ANI and had offered his assistance.
7. New Zealand Membership Application—Received 19 December 2018
 - a. Application Summary

The Secretary/Treasurer provided a brief summary of New Zealand’s application for membership.
 - b. **ACTION:** Visiting Committee—23-24 May 2019

The EXCOM appointed a Visiting Committee to include Oh-Kong Kwon (NAEK, CAETS President-elect), Hugh Bradlow (CAETS Board Member), and Ruth David (CAETS Secretary/Treasurer). A Trip Report is to be provided to the Council prior to the annual meeting.
8. Nigeria Membership Application—Received 30 January 2019
 - a. Application Summary

The Secretary/Treasurer provided a brief summary of Nigeria’s application for membership.
 - b. **ACTION:** Visiting Committee—3-4 June 2019

The EXCOM appointed a Visiting Committee to include Lucio Caceres (ANIU, CAETS Past-President), Trueman Goba (recent CAETS Board Member), and Ruth David (CAETS Secretary/Treasurer). A Trip Report is to be provided to the Council prior to the annual meeting.
9. Membership Inquiry from Serbia
 - a. Update: Secretary/Treasurer

The Secretary/Treasurer reported that she had just received an application for membership from Serbia and that she would perform additional due diligence. While dates had not been established for the onsite visit, it was agreed that June 6-7 should be targeted to consolidate travel with the visit to Nigeria. The EXCOM appointed a Visiting Committee to include Tuula Teeri (IVA, CAETS President), Ruth David (CAETS Secretary/Treasurer), and one other individual from the region to be recruited by the Secretary/Treasurer.

10. New Business

The EXCOM re-opened the discussion regarding CAETS Statements and the difficulty of rapidly building consensus such that publication could occur shortly after the annual meetings. Members observed that a more viable approach may be to have the host academy prepare a synopsis of the symposium/convocation that could be posted on the CAETS website (e.g. "*Reflections*") after a brief discussion of key themes with the Council. The content would not make recommendations or imply consensus.

EXCOM members observed that future CAETS Statements may be more productively derived from CAETS Discussion Group collaborations and/or Committees, both of which provide more opportunity to reach consensus.

EXCOM Members also discussed the need for actionable CAETS strategies both for expanding membership and achieving CAETS broad objectives. It was agreed that a Board discussion should be initiated on this topic in June, with a plan for work over the coming year and a report to the Council in 2020.

There being no further business, the meeting was adjourned.

CAETS Dues Receipts - 2019

3.a 2019 Dues Receipts - 27 May 2019

Country	Academy		2018	2019*	Amount	Date	Method
Argentina	Academia Nacional de Ingeniería	ANI	1000	1030	1030	11/28/2018	Wire
Australia	Australian Academy of Technological Sciences and Engineering		6000	6180	6180	11/14/2018	Wire
Belgium	Royal Belgium Academy of Applied Sciences	BACAS	2000	2060	2032	12/18/2018	Wire
Canada	Canadian Academy of Engineering	CAE	3000	3090	3166	1/25/2019	Wire
China	Chinese Academy of Engineering	CAE	6000	6180	6180	3/28/2019	Wire
Croatia	Croatian Academy of Engineering	HATZ	1000	1030	1030	1/23/2019	Wire
Czech Republic	Engineering Academy of the Czech Republic	EA CR	1000	1030			
Denmark	Danish Academy of Technical Sciences	ATV	3000	3090	3060	1/8/2019	Wire
Finland	Technology Academy Finland	TAF	3000	3090	3090	3/19/2019	Wire
France	National Academy of Technologies of France	NATF	3000	3090	3090	2/4/2019	Wire
Germany	German Academy of Science and Engineering	acatech	3000	3090	3090	12/3/2018	Wire
Hungary	Hungarian Academy of Engineering	HAE	1000	1030	1005	5/15/2019	Wire
India	Indian National Academy of Engineering	INAE	6000	6180	6180	3/6/2019	Wire
Japan	The Engineering Academy of Japan	EAJ	6000	6180	6180	1/31/2019	Wire
Korea	The National Academy of Engineering of Korea	NAEK	3000	3090	3090	1/18/2019	Wire
Mexico	Academy of Engineering, Mexico	AI	3000	3090	3090	12/5/2018	Wire
Netherlands	Netherlands Academy of Technology and Innovation	AcT.nl	2000	2060	2045	3/22/2019	Wire
Norway	Norwegian Academy of Technological Sciences	NTVA	3000	3090	3060	12/31/2018	Wire
Pakistan	Pakistan Academy of Engineering	PAE		1030	995	1/22/2019	Wire
Slovenia	Slovenian Academy of Engineering	IAS	1000	1030	1030	11/19/2018	Wire
South Africa	South African Academy of Engineering	SAAE	1000	1030	1030	1/22/2019	Wire
Spain	Royal Academy of Engineering, Spain	RAI	3000	3090			
Sweden	Royal Swedish Academy of Engineering Sciences	IVA	3000	3090	3082	2/4/2019	Wire
Switzerland	Swiss Academy of Engineering Sciences	SATW	3000	3090	3075	1/18/2019	Wire
United Kingdom	Royal Academy of Engineering, UK	RAEng	6000	6180	6155	12/21/3018	Wire
United States	National Academy of Engineering, US	NAE	6000	6180	6180	1/25/2019	Check
Uruguay	National Academy of Engineering of Uruguay	ANIU	2000	2060	2000	1/24/2019	Wire
			81000	84460	80145		

*Dues Increase CAETS Council agreed on 15 September 2016 that the dues for 2019 would be increased by 3%.

3.b. EXCOM: Dues Schedule

Information:

In accordance with CAETS Operating Procedures, the dues schedule is approved by the Council 2 years in advance.¹ Thus, during the Council meeting on 27 June 2019, the dues structure for 2021 must be approved. Absent any rationale for change, tradition is to simply copy the current dues structure as shown on the schedule that follows.

For Consideration/Action:

Aside from agreeing upon a 3% across-the-board increase that took effect this year, no adjustments have been made to the overall schedule since 2006, when the 3-level dues structure was implemented.² Based on historical notes, part of the motivation behind the tiered structure was to attract new academies without imposing an immediate financial burden (it was noted that the cost of attending meetings far exceeds the dues payment and that new members should be encouraged to actively participate).

The lowest dues level (\$1,000) was apparently intended to be “temporary”, used largely for new members with limited financial resources and small countries. Members at that level were ‘encouraged’ (by the Secretary/Treasurer) to increase their contributions over time upwards toward the mid-level (\$3,000). At present, member dues are distributed across 4 levels as shown below.

- 7 countries paying \$1,030
- 3 countries paying \$2,060
- 11 countries paying \$3,090
- 6 countries paying \$6180.

Since 2006, only 2 new members have been elected: South Africa (2008) and Pakistan (2018). Both countries were brought in at the lowest level.

Action: Given that the Council will consider three new member applications on 27 June, the EXCOM should be prepared to recommend an initial dues payment for 2020 and 2021. This will be discussed as trip reports are reviewed (Item 7).

Consideration/Action: From a long-term perspective, it would be helpful to have a stronger rationale for both initial dues-setting and periodic adjustments (in levels as well as member placement within tiers).

CAETS records indicate that the income from dues is intended to fund the recurring operating costs of the Secretariat, and that member academies are expected to pay individually for the cost of their participation in CAETS activities since their academies derive direct benefits. Recurring operating costs of the Secretariat are covered by the current dues structure.

CAETS reserves (assets less projected standard operating costs for 2019) are approximately \$295,000 prior to reimbursing the costs for 3 Visiting Committees (non-recurring costs that do not directly benefit member academies). A preliminary estimate of the total costs is in the range of \$40,000 for travel expenses. [That total includes travel for the Secretary/Treasurer for these visits since the annual

¹ Operating Procedures: [4) Financial Issues: b) At each Annual Meeting the Council shall approve the next year’s expense budget and the dues for the year following the next year.]

² [CAETS Operating Procedures: 4) Financial Issues: c) For FY2006 a 3-level annual dues structure of \$1,000, \$3,000, and \$6,000 was introduced with member academies placed at levels approved by the Council, with the understanding that these could be changed for subsequent years by agreement of the Council or by the Board of Directors between Council meetings.]

3.b. EXCOM: Dues Schedule

operating budget is not funded to cover non-recurring costs.] Note that the Visiting Committee costs are projected to decrease reserves by more than 13%.

Given that we have discussed the need for a Member Development strategy (as well as an overall CAETS strategy), we should anticipate the need to fund additional Visiting Committees in future years. Annual operating costs have historically been less than dues collected, leaving a modest amount for return to reserves each year, but even with that margin we are likely to continue erosion of CAETS reserves due to non-recurring costs such as Visiting Committees. [Note: With Council approval in 2019 to increase the stipend for the Secretary/Treasurer from \$44,000 to \$50,000, the annual operating margin shrinks by \$6,000.]

The Secretary/Treasurer suggests that the EXCOM consider a recommendation to the CAETS Board that a small task force be established examine the CAETS dues structure and make a recommendation to the Council in 2020 that, if approved, would take effect in 2022.

The Secretary/Treasurer would support the task force with:

- Synthesis/analysis of CAETS historical dues structures/payments since incorporation
- Analysis of comparative data that may provide a more equitable basis for establishing initial dues for new members
- Other analyses requested by the task force

Suggested timeline:

- Appointment of the task force – Board on June 24
 - Task force discussions (July – December)
- Task force draft to Board members for review and comment by 31 December 2019
 - Iterations as required (January – February)
- Board-approved recommendation to Council by 1 March 2020 for review and comment
 - Iterations as required (March – May)
- Final recommendation posted with Council meeting materials by 31 May 2020
- Task force final recommendation to Council for approval on 24 June 2020 (Seoul meeting)

CAETS Dues Schedule

3.b 2021 Dues Schedule

Country	Academy		2018	2019*	2020	2021
Argentina	Academia Nacional de Ingeniería	ANI	1000	1030	1030	1030
Australia	Australian Academy of Technological Sciences and Engineering	ATSE	6000	6180	6180	6180
Belgium	Royal Belgium Academy of Applied Sciences	BACAS	2000	2060	2060	2060
Canada	Canadian Academy of Engineering	CAE	3000	3090	3090	3090
China	Chinese Academy of Engineering	CAE	6000	6180	6180	6180
Croatia	Croatian Academy of Engineering	HATZ	1000	1030	1030	1030
Czech Republic	Engineering Academy of the Czech Republic	EA CR	1000	1030	1030	1030
Denmark	Danish Academy of Technical Sciences	ATV	3000	3090	3090	3090
Finland	Technology Academy Finland	TAF	3000	3090	3090	3090
France	National Academy of Technologies of France	NATF	3000	3090	3090	3090
Germany	German Academy of Science and Engineering	acatech	3000	3090	3090	3090
Hungary	Hungarian Academy of Engineering	HAE	1000	1030	1030	1030
India	Indian National Academy of Engineering	INAE	6000	6180	6180	6180
Japan	The Engineering Academy of Japan	EAJ	6000	6180	6180	6180
Korea	The National Academy of Engineering of Korea	NAEK	3000	3090	3090	3090
Mexico	Academy of Engineering, Mexico	AI	3000	3090	3090	3090
Netherlands	Netherlands Academy of Technology and Innovation	AcT.nl	2000	2060	2060	2060
Norway	Norwegian Academy of Technological Sciences	NTVA	3000	3090	3090	3090
Pakistan	Pakistan Academy of Engineering	PAE		1030	1030	1030
Slovenia	Slovenian Academy of Engineering	IAS	1000	1030	1030	1030
South Africa	South African Academy of Engineering	SAAE	1000	1030	1030	1030
Spain	Royal Academy of Engineering, Spain	RAI	3000	3090	3090	3090
Sweden	Royal Swedish Academy of Engineering Sciences	IVA	3000	3090	3090	3090
Switzerland	Swiss Academy of Engineering Sciences	SATW	3000	3090	3090	3090
United Kingdom	Royal Academy of Engineering, UK	RAEng	6000	6180	6180	6180
United States	National Academy of Engineering, US	NAE	6000	6180	6180	6180
Uruguay	National Academy of Engineering of Uruguay	ANIU	2000	2060	2060	2060
			81000	84460	84460	84460

*Dues Increase CAETS Council agreed on 15 September 2016 that the dues for 2019 would be increased to

CAETS Rotation Schedule - 2019

Member Academy	Date Elected	Annual Meeting Host	Officer			Board			
			President Elect	President	Past President	Board	2019	2020	2021
Sweden (IVA)	1978 (F)	2019	2018	2019	2020	2018	Tuula Teeri	Tuula Teeri	
Korea (NAEK)	2000	2020	2019	2020	2021	2019	Prof. Kwon Oh-Kyong	Prof. Kwon Oh-Kyong	Prof. Kwon Oh-Kyong
Argentina (ANI)	1999	2021	2020	2021	2022	2020		Manuel A. Solanet	Manuel A. Solanet
France (NATF)	1989	2022	2021	2022	2023	2021			NOM (Pres-Elect)
Croatia (HATZ)	2000	2023	2022	2023	2024	2017			
Finland (TAF)	1989	2024	2023	2024	2025	2019	Dr. Panu Nykanen	Dr. Panu Nykanen	
Czech Republic (EA CR)	1999	2025	2024	2025	2026	2015		DEFERRED	DEFERRED
USA (NAE)	1978 (F)	2026	2025	2026	2027	2018	Roger McCarthy		
Norway (NTVA)	1990	2004				2015		DEFERRED	DEFERRED
Germany (acatech)	2005					2017			NOM (2021-2022)
Australia (ATSE)	1978 (F)	2005				2019	Prof. Hugh Bradlow	Prof. Hugh Bradlow	
Belgium (BACAS)	1990	2006				2016			NOM(2021-2022)
Japan (EAJ)	1990	2007				2016		*HideakiKoizumi	HideakiKoizumi
Netherlands (AcTI.nl)	1993	2008				2018	Lucas P. J. J. Noldus		
Slovenia (IAS)	2000					2018	Prof. Stane Pejovnik		
South Africa (SAAE)	2009					2017			
Canada (CAE)	1991	2009				2015		Peter Mascher	Peter Mascher
Denmark (ATV)	1987	2010				2016			NOM (2021-2022)
Mexico (AI)	1978 (F)	2011				2016		*Jose Albarran	Jose Albarran
Switzerland (SATW)	1988	2012				2017			
Hungary (HAE)	1995	2013				2018	István Králik		
China (CAE)	1997	2014				2019	Prof. LI Xiaohong	Prof. LI Xiaohong	
India (INAE)	1999	2015				2019	Dr. Sanak Mishra	Dr. Sanak Mishra	
United Kingdom (RAEng)	1978 (F)	2016			2017	2015		David Thomlinson	David Thomlinson
Spain (RAI)	1999	2017	2016	2017	2018	2018			
Pakistan (PAE)	2018								NOM (2021-2022)
Uruguay (ANIU)	2000	2018	2017	2018	2019	2019	Lucio Cáceres		
Secretary/Treasurer	2017						Ruth David	Ruth David	Ruth David

F = Founding Member

*Changes to Rotation Schedule due to deferrals by EA CR and NTVA

3.d 2020 Board Nominees

Individual biographies are included in Council meeting materials

President-Elect:

Manuel Solanet, Argentina

- Vice President, Academia Nacional de Ingenieria, Argentina

Board Member (2020-2021):

Hideaki Koizumi, Japan

- Executive Vice President, Chair of the International Committee on International Affairs

Peter Mascher, Canada

- Member of the Board of Directors of the Canadian Academy of Engineering

Jose Albarran, Mexico

- President, Academy of Engineering of Mexico

David Thomlinson, United Kingdom

- International Secretary, Royal Academy of Engineering

6. 2021 CAETS Annual Meeting Status Update

The Future of Energy

Argentina's Academia Nacional de Ingenieria (ANI) will host CAETS 2021 in Buenos Aires from September 20th through the 23rd. The technical session will focus on ***The Future of Energy***, during which participants will analyze the changes in the energy matrix resulting from the technological advances and the increasing consideration of the environment. The tentative schedule is as follows:

- September 20th (Monday): CAETS Board Meeting, Committees and Discussion Groups; Reception
- September 21st (Tuesday): The Future of Energy
- September 22nd (Wednesday): The Future of Energy (morning); CAETS Council Meeting (afternoon)
- September 23rd (Thursday): Technical Tour

7. EXCOM: Member Applications

Full membership applications are posted on the CAETS Website (Members Only section).

Trip Reports will be provided as an addendum to Council Meeting Materials

New Zealand: 23-24 May 2019

Visiting Committee:

Oh-Kyong Kwon (Korea)

Hugh Bradlow (Australia)

Ruth David (Secretariat)

Trip Report (out for review/comment) – Recommends election

Nigeria: 3-4 June 2019

Visiting Committee:

Lucio Caceres (Uruguay)

Trueman Goba (South Africa)

Ruth David (Secretariat)

Trip Report – Pending completion of visit

Serbia: 6-7 June 2019

Visiting Committee:

Tuula Teeri (Sweden)

Panu Nykanen (Finland)

Ruth David (Secretariat)

Trip Report – Pending completion of visit

Action: Recommendation for initial dues.

Note: New elected academies are required to contribute \$2,000 to CAETS reserves within 3 months of election; initial dues payment is the following year.

As we have no real rationale for dues-setting at present, and little by way of historical precedent, I would suggest that we bring all newly elected members in at the lowest level (\$1030) with the understanding that the Board and Council can adjust over time.