

1. Welcome and Introductions

New Member (elected 2018):

Pakistan Academy of Engineering
President, Jameel Ahmad Khan

Observers from Academies whose applications for membership will be considered during this meeting:

New Zealand's Royal Society Te Aparangi
Andrew Cleland, Chief Executive

Nigerian Academy of Engineering
Fola Lasisi, President

Academy of Engineering Sciences of Serbia
Petar Petrovic, Member of AESS



CAETS Council Agenda

27 June 2019

1:30 p.m. – 6 p.m.

IVA Conference Center

Grev Turegatan 16

Stockholm, Sweden

1:30	1. Welcome and Introductions	Tuula Teeri
	2. Approval of Agenda	Tuula Teeri
	3. Approval of Council Minutes of 13 September 2018	Tuula Teeri
1:40	4. CAETS 2020 Update	Inkyu Lee
2:00	5. CAETS 2021 Status Update	Manuel Solanet
2:20	6. Report from the 24 June 2019 Meeting of the Board	Ruth David
	a. 2018 Audit Committee Report	
	b. 2020 Operating Budget	
2:40	7. Report of the Secretary/Treasurer	Ruth David
	a. Rotation Schedule	
	b. 2021 Dues Schedule	
	c. Future CAETS Meeting Schedule	
	i. CAETS 2020: Seoul, Korea – June 22-25	
	ii. CAETS 2021: Buenos Aires, Argentina – September 20-23	
2:55	8. Administrative Actions	Tuula Teeri
	a. Approval of Rotation Schedule	
	b. Approval of 2021 Dues Schedule	
	c. Election of Board Members for 2020-2021	
3:10	9. Report from the Energy Committee	NAEK
3:20	10. Discussion Group Report: Engineering Education	
3:30	11. Discussion Group Report: Communicating with the Public	
3:40	12. Discussion Group Report: Diversity and Inclusion	
3:50	13. Discussion Group Report: Sustainable Development Goals	
4:00	BREAK – RECONVENE IN CLOSED SESSION	
4:30	14. Membership Application: New Zealand	Ruth David
	a. Action: Call for vote	Tuula Teeri
4:45	15. Membership Application: Nigeria	Ruth David
	a. Action: Call for vote	Tuula Teeri
5:00	16. Membership Application: Serbia	Ruth David
	a. Action: Call for vote	Tuula Teeri
5:15	17. New Business	Tuula Teeri
5:30	18. Presentation of Certificates in Recognition of CAETS Service	Tuula Teeri
	a. Lucio Caceres, ANIU (President-Elect, President (2018), Past-President)	
	b. Roger McCarthy, US NAE (Board Member 2018-2019)	

DRAFT 27 May 2019



CAETS Council Agenda

- c. Lucas Noldus, AcTI.nl (Board Member 2018-2019)
- d. Stane Pejovik, IAS (Board Member 2018-2019)
- e. Istvan KRALIK, HAE (Board Member 2018-2019)

6:00 ADJOURN

Thursday, September 13, 2018 – 0900 - 1430

Sheraton Montevideo Hotel

Victor Solino 349, Punta Carretas, Montevideo, Uruguay

Meeting Attendees

Frank Behrendt (acatech)
Al Romig (US NAE)
Roger McCarthy (US NAE)
Magnus Breidne (IVA)
Bruno Revellin-Falcoz (NATF)
Pascal Viginier (NATF)
Mike Shand (SAAE)
Bob Pullen (SAAE)
Trueman Goba (SAAE)
Xiaohong LI (CAE-China)
Axel Meisen (CAE-Canada)
Hugh Bradlow (ATSE)
Matt Wenham (ATSE)
Manuel Solanet (ANI)
Postiglioni Osvaldo (ANI)
Narai Kim (NAEK)
Suhwan Choi (NAEK)
Doggun Park (NAEK)

Jose F. Albarran (AIM)
Kenji Oeda (EAJ)
Stane Pejovnik (IAS)
Istvan Kralik (HAE)
Jaime Dominguez (RAI)
Panu Nykanen (CoFA)
Lucas Noldus (AcTI.nl)
Adimurthy Vipparthi (INAE)
B. N. Suresh (INAE)
Purnendu Ghosh (INAE)
David Thomlinson (RAEng)
Shane McHugh (RAEng)
Russell Lamb (RAEng)
Adriana Gambogi (ANIU)
Lucio Caceres (ANIU)
Ruth David (US NAE)
Kyung-Ho Shin (NAEK)
Oh-Kyong Kwon (NAEK)

Observers

Jameel Ahmad Khan (PAE)

1. Welcome and Introductions

President Cáceres provided a brief welcome and invited participants to introduce themselves.

2. Approval of Agenda

The agenda was approved as drafted.

3. Approval of Council Minutes of 16 November 2017

The minutes of the Council meeting on 16 November 2017 were approved as presented.

4. Report of the 10 September 2018 Meeting of the Board of Directors

a. 2017 Audit Committee Report

The Secretary/Treasurer, Ruth David, reported that the Board had received the audited 2017 Financial Statements and that no issues had been identified during the audit.

b. 2019 Operating Budget

The Treasurer reported that during its review of the proposed 2019 Operating Budget the Board had recommended a change in the Management Fee. After discussion led by the President, the Council concurred with the Board's recommendation that the Management Fee be increased from \$44,000 to \$50,000 for 2019, with the understanding that the President-Elect would lead a benchmarking analysis to determine the appropriate fee going forward.

- c. Rotation Schedule
The Rotation Schedule was provided for information.
 - d. InterAcademy Partnership for Research (IAP-R)
The Secretary/Treasurer reported that she had represented CAETS at the 2018 Board Meeting of the IAP-R and that NAEK agreed to represent CAETS at the 2019 meeting in South Korea.
 - e. CAETS Statements
The Secretary/Treasurer summarized the Board's discussion regarding CAETS Statements; Council discussion followed. There was general agreement to try a new process in 2019 but concerns were expressed that statements lacking complete consensus should not be published as CAETS Statements. There also was a lack of consensus regarding the target audience for the statements and skepticism regarding the ability of a host academy to draft a statement in advance of the meeting. As the 2019 host academy, IVA agreed to lead an effort to refine the process of statement development; the Secretary/Treasurer will work with IVA in this regard.
 - f. CAETS Website
The Secretary/Treasurer provided a brief summary of the Board's feedback regarding both public and member-only sections to be implemented in the new CAETS website.
 - g. CAETS Discussion Topics Going Forward
This topic was deferred for discussion during the outbriefs later in the meeting.
5. Administrative Actions
- a. Election of Board Members for 2019-2020
Oh-Kyong KWON (South Korea) was elected to the CAETS Board for a 3-year term beginning in 2019 (President-Elect, President, Past President). The following individuals were elected to the CAETS Board for 2-year terms beginning in 2019: Hugh Bradlow (Australia); Xiaohong LI (China); Panu Nykanen (Finland); Sanak Mishra (India).
 - b. Approval of 2020 Dues Schedule
The 2020 Dues Schedule was approved as presented; dues remain the same as for 2019, which was set at 3% above 2018.
 - c. Future CAETS Meeting Schedule
The future CAETS meeting schedule is: 2019—IVA, Sweden – June 24-28, 2019; 2020—NAEK, South Korea – June 22-25, 2020; 2021—ANI, Argentina (dates to be determined)
6. Progress Report on New Zealand Application for CAETS Membership
- Matt Wenham (Australia) provided a brief update on progress by the Royal Society of New Zealand in transforming their governance structure to provide a distinct identity for the engineering component. Additional changes are being implemented in their Fellow election processes. New Zealand anticipates submission of a CAETS membership application in the near future.

7. CAETS 2019 Update: IVA, Sweden

Magnus Breidne provided a brief update on the status of planning for CAETS 2019, describing planned themes and structure for the convocation, which also will commemorate IVA's 100th anniversary; they intend to look back at major engineering contributions in the past century and also look forward to future challenges for engineering. Approximately 400-600 attendees are anticipated.

8. CAETS 2020 Update: NAEK, Korea

Doggun Park provided a brief description of CAETS 2020 plans and proposed a 1.5-day convocation around the theme "Smart Society." The proposal was approved.

The meeting was adjourned and reconvened in closed session. All member academies noted in the attendees list except INAE were in attendance.

9. Due Diligence: Pakistan Application for CAETS Membership

Frank Behrendt (acatech) summarized his visit to the PAE and related very positive impressions from his experience. His trip report was provided to all member academies in advance of the meeting. After Council discussion, a vote was taken. All members present concurred with the election of the Pakistan Academy of Engineering as a new member of CAETS.

The meeting reconvened in open session.

10. Report of the Energy Committee

Frank Behrendt provided a brief report on the work of the CAETS Energy Committee, noting that the report is in draft form and they hope to complete it shortly; he noted that their target audience is CAETS member academies. He also noted that NAEK has agreed to assume leadership of the Energy Committee for the next phase of effort and will schedule a meeting in the spring of 2019.

11. Summary and Next Steps: Engineering Education

Hugh Bradlow (Australia) provided a brief summary of the 10 September discussion on Engineering Education. There was substantial interest in continuing the exchange of information on this topic. A summary of the key topics will be posted separately.

12. Summary and Next Steps: How Engineering Academies Interact with the Public

Roger McCarthy (United States) provided a brief summary of the 10 September discussion on Communicating with the Public. There was substantial interest in continuing the exchange of information on this topic as well as a belief that the discussion should influence design of the new CAETS website. A summary of the key topics will be posted separately.

13. Summary and Next Steps: Engineering and the Sustainable Development Goals

David Thomlinson (United Kingdom) provided a brief summary of the 10 September discussion on Sustainable Development Goals. It was noted that individual academies have a variety of activities underway that relate to the SDGs and there may be opportunities to feature those individual efforts on the CAETS website as well as to share information and collaborate with other member academies. A summary of the key topics will be posted separately.

14. New Business

It was noted that the discussion topics considered on 10 September should be continued in future CAETS meetings and that Diversity and Inclusion should also be considered as a standing agenda topic. The Role of Academies in International Development was also suggested as a discussion topic for subsequent meetings.

David Thomlinson (RAEng) highlighted the upcoming Global Grand Challenges Summit to be held in London from September 16-18, 2019. The theme is “Engineering in an Unpredictable World.” He reported that RAEng is encouraging CAETS members to attend; they are targeting approximately 1000 attendees, to include about 700 students.

15. Presentation of Certificates in Recognition of CAETS Service

The following individuals were thanked and presented with certificates recognizing their service contributions to CAETS:

- Past President: Elías Fereres, Spain (RAI)
- Board (2017-2018): Vladimir Andročec, Croatia (HATZ)
- Board (2017-2018): Frank Behrendt, Germany (acatech)
- Board (2017-2018): Trueman Goba, South Africa (SAAE)
- Board (2017-2018): Ulrich (Ueli) Suter, Switzerland (SATW)

The meeting was adjourned.



CAETS

*International Council of Academies of
Engineering and Technological Sciences, Inc.*

2019 President
Tuula Teeri, IVA, Sweden

2019 President Elect
Oh-Kyong Kwon

2019 Past President
Lucio Cáceres, ANIU, Uruguay

Secretary/Treasurer
Ruth David, NAE, US
355 Toscana Circle
Gordonville, TX 76245
ruth.a.david@outlook.com
Tel+1-571-216-7773

CAETS Records
National Academy of Engineering
Room 302A
2101 Constitution Ave. N. W.
Washington, D.C. 20418 USA
www.caets.org

CAETS Member Academies
National Academy of Engineering, Argentina
Australian Academy of technology and Engineering
Royal Belgian Academy Council of Applied Sciences
Canadian Academy of Engineering
Chinese Academy of Engineering
Croatian Academy of Engineering
Engineering Academy of Czech Republic
Danish Academy of Technical Sciences
Technology Academy Finland
National Academy of Technologies of France
German Academy of Science and Engineering
Hungarian Academy of Engineering
Indian National Academy of Engineering
The Engineering Academy of Japan
The National Academy of Engineering of Korea
Academy of Engineering, Mexico
Netherlands Academy of Technology and Innovation
Norwegian Academy of Technological Sciences
Pakistan Academy of Engineering
Slovenian Academy of Engineering
South African Academy of Engineering
Royal Academy of Engineering, Spain
Royal Swedish Academy of Engineering Sciences;
Swiss Academy of Engineering Sciences
Royal Academy of Engineering, United Kingdom
National Academy of Engineering, USA
National Academy of Engineering, Uruguay

President Tuula Teeri
Royal Swedish Academy of Engineering Sciences
Grev Turegatan 14
WE-102 42 Stockholm, Sweden

Dear President Teeri:

We were nominated to the CAETS Audit Committee by our respective academies, the South African Academy of Engineering (SAAE) and the National Academy of Engineering (NAE) of the United States to serve 2-year terms on the Audit Committee, in accordance with CAETS Operating Procedures.

The CAETS Secretary/Treasurer prepared and submitted the enclosed two-page statement, CAETS Financial Summary FY2018, dated 25 February 2019. We have reviewed the relevant supporting account statements and vouchers and believe this enclosed statement accurately reflects the state of CAETS financial affairs as of 31 December 2018.

Submitted by,

Trueman Goba
President, SAAE

Al Romig
NAE Executive Director

Mary Kutruff
NAE Financial Officer

Enclosure: 2018 Financial Statements

Fiscal year 2018

1/1/2018 - 12/31/2018

OPERATIONS

	FY2016	FY2017	FY2018	FY2018 ¹	FY2019 ²
Receipts	actual	actual	actual	budget	budget
Dues	79,975.20	84,494.20	80,811.00	81,000.00	83,430.00
Expenses					
Communications	531.36	-	510.79	7,000.00	2,500.00
Equipment	1,230.78	-	-	500.00	200.00
Legal-Prof. Fees		1,113.00	162.00	100.00	500.00
Management Fee	44,000.00	44,000.00	44,000.00	44,000.00	50,000.00
Meetings		127.07	50.71	300.00	200.00
Postage, Delivery	21.24	33.30	183.12	300.00	300.00
Printing	600.00	-	-	500.00	500.00
Supplies	147.40	243.15	88.73	300.00	230.00
Travel	17,382.37	15,409.09	20,791.15	25,000.00	25,000.00
Strategy Implementation ³		-	2,887.70	3,000.00	4,000.00
Total Expenses	63,913.15	60,925.61	68,674.20	81,000.00	83,430.00

¹Approved By Board on 13 November 2017; dues based on 6 at \$1K; 3 at \$2K; 11 at \$3K; 6 at \$6K.

Note: \$7000 expense for CAETS website upgrade deferred pending further analysis and review.

²Approved by Board & Council September 2018; dues budget reflects previously approved 3% increase to tiers; Management Fee increase recommended by Board and approved by Council.

³2018 expense incurred for Visiting Committee trip to Pakistan (PAE Membership Application).

ACTIVITIES AND CHANGES IN RESERVE FUNDS

Balance From 12/31/2017	272,129.54
Revenue	
Dues Received	80,811.00
USAA Interest Income	3.49
Reserve Fund Contribution (PAE)	2,000.00
	<u>82,814.49</u>
Expenses	
Operating Expenses	68,674.20
Reserve Fund Expenses	-
	<u>68,674.20</u>
	14,140.29
Balance 12/31/2018	286,269.83

Statement of Financial Position
12/31/2018

ASSETS

USAA Account Balance 12/31/18 (closed)	-	
Bank of America Account Balance 12/31/18	312,008.41	
		<hr/>
Total Assets		312,008.41

LIABILITIES

Deferred Revenue from Prepaid Dues	25,667.00	
Checks Issued but Not Cleared	-	
Due to Secretary/Treasurer ¹	71.58	
On Account for Members	-	
		<hr/>
Total Liabilities		25,738.58

NET ASSETS	<hr/> 286,269.83
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Total Liabilities and Net Assets	312,008.41
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¹ 2017 Expense not reimbursed in 2018 (See 2017 Financial Statements)

Fiscal year 2017

1/1/2017 - 12/31/2017

OPERATIONS

	FY 2015	FY2016	FY2017	FY2017 ¹	FY2018 ²
Receipts	actual	actual	actual	budget	budget
Dues	77,286.97	79,975.20	84,494.20	81,000.00	81,000.00
Expenses					
Communications	1,538.20	531.36	-	2,000.00	7,000.00
Equipment	342.13	1,230.78	-	2,000.00	500.00
Legal-Prof. Fees			1,113.00	100.00	100.00
Management Fee	44,000.00	44,000.00	44,000.00	44,000.00	44,000.00
Meetings	101.21		127.07	600.00	300.00
Postage, Delivery	635.78	21.24	33.30	2,000.00	300.00
Printing		600.00	-	2,000.00	500.00
Supplies	170.63	147.40	243.15	300.00	300.00
Travel	8,587.68	17,382.37	15,409.09	25,000.00	25,000.00
Strategy Implementation			-	3,000.00	3,000.00
Total Expenses	55,375.63	63,913.15	60,925.61	81,000.00	81,000.00

¹Approved by Board on 16 September 2016; dues based on 6 at \$1K; 3 at \$2K; 11 at \$3K; 6 at \$6K

²Approved By Board on 13 November 2017; dues based on 6 at \$1K; 3 at \$2K; 11 at \$3K; 6 at \$6K.

Note: \$7000 expense for CAETS website upgrade deferred pending further analysis and review.

ACTIVITIES AND CHANGES IN RESERVE FUNDS

Balance From 12/31/2016	248,476.49
Revenue	
Dues Received	84,494.20
USAA Interest Income	84.46
Reserve Fund Contribution	-
	<u>84,578.66</u>
Expenses	
Operating Expenses	60,925.61
Reserve Fund Expenses	-
	<u>60,925.61</u>
	23,653.05
Balance 12/31/2017	<u>272,129.54</u>

Statement of Financial Position
12/31/2017

ASSETS

USAA ¹ Account Balance 12/31/17	6,103.95	
Bank of America Account Balance 12/31/17	<u>297,017.63</u>	
Total Assets		303,121.58

LIABILITIES

Deferred Revenue from Prepaid Dues	11,000.00	
Checks Issued but Not Cleared	19,359.99	
Due to Secretary/Treasurer	71.58	
On Account for Members	<u>560.47</u>	
Total Liabilities		30,992.04

NET ASSETS**272,129.54****Total Liabilities and Net Assets****303,121.58**

¹USAA Account to be closed during 2018; process is underway; remaining funds will be transferred to Bank of America Account.

6.b 2020 Budget

2020 Operating Budget

	FY2016	FY2017	FY2018	FY2019 ¹	PROPOSED FY2020
Receipts	actual	actual	actual	budget	budget
Dues	79,975.20	84,494.20	80,811.00	83,430.00	83,430.00
Expenses					
Communications	531.36	-	510.79	2,500.00	2,400.00
Equipment	1,230.78	-	-	200.00	-
Legal-Prof. Fees		1,113.00	162.00	500.00	230.00
Management Fee	44,000.00	44,000.00	44,000.00	50,000.00	50,000.00
Meetings		127.07	50.71	200.00	200.00
Postage, Delivery	21.24	33.30	183.12	300.00	200.00
Printing	600.00	-	-	500.00	200.00
Supplies	147.40	243.15	88.73	230.00	200.00
Travel	17,382.37	15,409.09	20,791.15	25,000.00	25,000.00
Strategy Implementation ²		-	2,887.70	4,000.00	5,000.00
Total Expenses	63,913.15	60,925.61	68,674.20	83,430.00	83,430.00

¹Approved by Board & Council September 2018; dues budget reflects previously approved 3% increase to tiers; Management Fee increase recommended by Board and approved by Council (budget shifted from Strategy Implementation to Management Fee to cover within fixed bottom line).

²2018 expense incurred for Visiting Committee trip to Pakistan (PAE Membership Application). Although non-recurring (unbudgeted) cost, given the relatively small cost it was covered within operating expenses.

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

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

3.d 2020 Board Nominees

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



Manuel A. Solanet

Born in Buenos Aires, Argentina, on December 14, 1940

Married Elisa Freixas, 6 children, 20 grand children

Studies:

Primary and secondary: Champagnat School, Buenos Aires

Civil Engineer, 1963, University of Buenos Aires

Post graduate: Economic and Transportation Planning, 1964, Economic Commission for Latin America (ECLA), United Nations,

Teaching activities:

University of Buenos Aires, School of Engineering, Professor of Transportation Economics, 1967-1973.

Eseade University, Argentina, Professor of Valuation, Mergers and Acquisitions, 2000- 2002

Courses and conferences about Project Evaluation 1965- current in various institutions from 1967 today

Member of the Academic Council of the Instituto Tecnológico de Buenos Aires (ITBA)

Professional and civil service activities:

1963-1967: National Council of Development, Transportation and Communications. National Plan

1968-1969 Ministry of Economy ,Advisory in the area of Transport and Infraestructure

1969-1977: SAE, Sociedad Argentina de Estudios Engineering

Consultants. Partner, responsible for the area of transportation and traffic engineering. Participation and Project manager in numerous projects in Argentina, Uruguay, Perú, Paraguay, Ecuador, ad Turkey, among others: Economic feasibility and design of main bridges over the Parana River and Iguazú River; Main Freeways: National Transport Plan for the Argentine

Government; Navigation improvement on Paraná River; Manual for feasibility studies on highways. Paraguay: highway construction plan in the oriental part of the country; Railroad Feasibility Asunción- Encarnación; National Transport Plan. Peru: Feasibility of the road Chiclayo- Jaen- San Ignacio and tunnel to cross Andean. Uruguay: Railway Program for rationalization and development (for the World Bank). Turkey: application of a transport model for Traffic allocation for transportation plan (World Bank).

1983- 2001 and 2002- 2017: Infupa S.A., Partner and President. Advisory on investment projects, mergers and acquisitions.

1977-1981: Technical Secretary of the National Institute of Economic Planning: responsible for the evaluation and selection investment of the National Investment Plan.

1981-1982 Secretary of Finance

2001 Secretary of Government Modernization

Participation in institutions:

1963- current: Member of Centro Argentino de Ingenieros (CAI); Member of the Board 1975-76.

1989-current: Academic Counselor of the Foundation of Economic Research for Latin American (FIEL). Managing and coordination of several projects as The National Government Reform; The Pension System Reform

2002-2008: Founder and Board Member of de political Party Recrear; Corrdinator of the technical study groups

2011- current: Founder and President of the Think Tank Libertad y Progreso Foundation

1999-current: Member of the National Academy of Engineering. Member of the board between 2009 2013. Second Vicepresident 2018-2019. Director of the Institute of transport between 2012 and 2015.

2008- current: Member of the National Academy of Moral and Political Sciences: member of the board 2010-2014 and President 2014-2017.

Director of the Institute of Ethics and Economic Policy and of the Institute of Environmental Policy

1997- current: Corresponding member of the Academy of Economics of Uruguay.

Books

"Transport economics", (Mimeo) 1972

"Economic Evaluation of Investment Projects", editorial El Ateneo, 1980, three editions.

"Government spending in Argentina 1960-1985" FIEL-CEA

"Notes on the Malvinas war", 2004,

"The hyperinflation of 1989", 2006, editorial Lumiere.

"Ten lectures on Argentina" 2018,

Publications numerous articles on transport and economic topics, on media and magazines.

Awards

1971, Instituto de Pesquisas Rodovias (Highway Research Institute) Brasil: 1st prize for "Analysis model for the replacement of railway secondary lines by roads"

1993 Award Brother Sixtus, Association of former alumni Champagnat School.

1998 Konex Award in the category Institutions Community and Bussines.

2016 River Plate Award, granted jointly by Rotary Clubs Montevideo and Buenos Aires.

Profile

Hideaki KOIZUMI, Prof., Ph.D.

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

The Engineering Academy of Japan (EAJ)

Fellow/Board Member, Research Center for Advanced Science and Technology (RCAST), The University of Tokyo

Honorary Fellow, Hitachi, Ltd.

Graduated from the University of Tokyo, Department of Pure and Applied Sciences, College of Arts and Sciences

Joined the Instruments Division of Hitachi, Ltd., and discovered the principle of the polarized Zeeman effect atomic absorption (PZAA) method (doctoral dissertation, patent). Commercialized the PZAA spectrometer in 1976 with more than 10,000 products shipped in Japan and overseas. The product has been sold for more than 40 years mainly in the environmental measurement field. The PZAA spectrometer received the Analytical and Scientific Instrument Heritage certification in 2013.

Invented and commercialized magnetic resonance angiography (MRA) and optical topography (OT, or near-infrared spectroscopic imaging (NIRS)). Developed, commercialized, applied and achieved the first domestic production of superconducting MRI equipment and functional magnetic resonance imaging (fMRI), thereby contributing to developments in the medical, welfare and neuroscientific fields.

Served as General Manager of the Advanced Research Laboratory and Senior Chief Scientist and Fellow at Hitachi, Ltd., developing international activities for the bridging and fusion of many fields mainly including the environmental, medical and life science fields. Delivered the Memorial Lecture at the 400th Anniversary of the Pontifical Academy of Sciences and gave lectures at an OECD Forum, the World Innovation Summit for Education (WISE) and the International Council of Academies of Engineering and Technological Sciences (CAETS). In recent years, invited to various venues in Japan and overseas to lecture on “Engineering Ethics.” In Japan, served as President of the Japan Society for Analytical Chemistry (JSAC), executive director and member of many councils and experts’ meetings, and member of The Science Council of Japan (Cabinet Office). Currently serving as Executive Vice President of the Engineering Academy of Japan; an advisor at various research institutes in Europe, the United States, China and Australia; foreign member of the Chinese Academy of Engineering; and an Honorable Professor at The South East University, China. Received many awards in Japan and overseas, including the Okochi Memorial Grand Technology Prize, the Friendship Award (PRC) and the RD-100 Prize (USA). Wrote part of many publications published by the Oxford University Press, the Cambridge University Press and Springer. Authored and/or edited many domestic publications.

Peter Mascher
Canadian Academy of Engineering
2020 Board Nominee

Peter Mascher obtained a PhD in Engineering Physics in 1984 from the Graz University of Technology (TUG) in Austria and joined McMaster University in 1989. He is a professional engineer and a professor in the Department of Engineering Physics, and chaired the department from 1994 to 2000. From 2003 to 2014 he served as the Associate Dean (Research and External Relations) of the Faculty of Engineering, with responsibilities for coordinating major research initiatives and collaborations of the Faculty. Since February 2014 he is overseeing McMaster's International Portfolio as Vice-Provost, International Affairs. He is a Fellow of the Canadian Academy of Engineering and the Electrochemical Society. In 2015, he was appointed as an Honorary Professor at Nanjing Tech University.

Dr. Mascher holds the William Sinclair Chair in Optoelectronics and leads active research groups involved in the fabrication and characterization of thin films for optoelectronic applications, the development and application of silicon-based nanostructures, and the characterization of defects in solids by positron annihilation spectroscopy. His research work has been continuously funded for more than 29 years by the Natural Sciences and Engineering Research Council of Canada (NSERC), and has drawn funding from the Canada Foundation of Innovation (CFI), several federal and provincial Centres of Excellence, and industry, for a lifetime total surpassing \$25M. Since 2010, he leads a collaborative initiative to transform the McMaster Nuclear Reactor into one of the world's brightest positron sources for applied and fundamental research.

Dr. Mascher has supervised more than 70 graduate students and post-doctoral fellows, has authored or coauthored close to 250 publications in refereed journals and conference proceedings, and has presented many invited lectures at international conferences and workshops. He is a member of the Steering Committee of the Canadian Semiconductor Science and Technology Conference (CSSTC), the International Advisory Committee of the International Conference on Optical, Optoelectronic and Photonic Materials and Applications (ICOOPMA) and Chair of the International Advisory Committee on Positron Annihilation. From 2003 to 2007 he served as the Program Director of the Ontario Photonics Consortium, at the time the largest Ontario-funded project.

Dr. Mascher is a member of the Board of Directors of the Canadian Academy of Engineering, is the Vice-Chair of Nano Ontario and Vice-Chair of the Dielectric Science and Technology Division of the Electrochemical Society. Since 2017, he serves as a Technical Editor for the ECS Journal of Solid State Science and Technology.

Dr. José F. Albarrán

Has a BS in Mechanical Engineering from the National University of Mexico, and a PhD in Electronics from the University of California at Berkeley.

Begun professional work in the academic sector, first as a professor at the School of Engineering of the National University of Mexico (UNAM) and later as a Researcher, first at the Applied Mathematics Institute, also at UNAM and then at the Institute for Electrical Research. Nine (9) years in all.

During the following 10 years, he worked in the industrial sector, founding a new company to manufacture electronic equipment developed during his tenure at the Institute for Electrical Research. Later moved to engineering and construction, where he worked for 15 years in industrial projects management.

After a short time (only 3 years) as Deputy Director for Engineering in the government-owned oil company (Pemex), he is now working as an independent consultant, author in project management and young professionals development fields and lecturer at his alma mater.

His research and consulting activities are aimed at improving the development and execution of infrastructure projects in Mexico.

Since 1983, has been a member of the Academy of Engineering, Mexico, of which he was the Secretary from 2010 to 2012, Treasurer from 2012 to 2014, Vice-president from 2016 to 2018 and is now its President until June 2020.

Mr David Thomlinson FREng

International Secretary, Royal Academy of Engineering

David Thomlinson is a Chairman of Moixa Energy and an Advisor to Arup Consulting Engineers. He is a member of the Business Leaders council for TeachFirst and the Global Advisory Council for Teach For All.

He retired in 2014 after a 28-year career with the Global Management Consulting and Technology firm, Accenture. He was a member of their Global Executive Committee for 11 years, including as Group Chief Executive for the Global Resources Operating Group (Energy, Utilities, Chemicals and Natural Resources), Managing Director for UK and Ireland and Chief Geographic Officer. In his last role, he was responsible for strategy and operations across 54 countries and was based in Shanghai, China.

He is a fellow of the Royal Academy of Engineering and a Chartered Engineer - being a Member of the Institution of Civil Engineers and Structural Engineers.



14-16 Member Applications

Full membership applications are posted on the CAETS Website.

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