



CAETS

Communications Committee

Presentation to CAETS Council - 9 September 2025

Lucas Noldus (Committee chair)

Netherlands Academy of Engineering

Overview of the Communications Committee

Leadership



Lucas NOLDUS

Chair

Netherlands Academy of Engineering



Siegfried Zhiqiang WU

Deputy Chair

Chinese Academy of Engineering

Secretariat

Wei Wang, Sisi Chen, Ziqin Yang

Tongji University

Members

47 committee members (August 2025)

From 27 out of 31 member academies (**87%**)

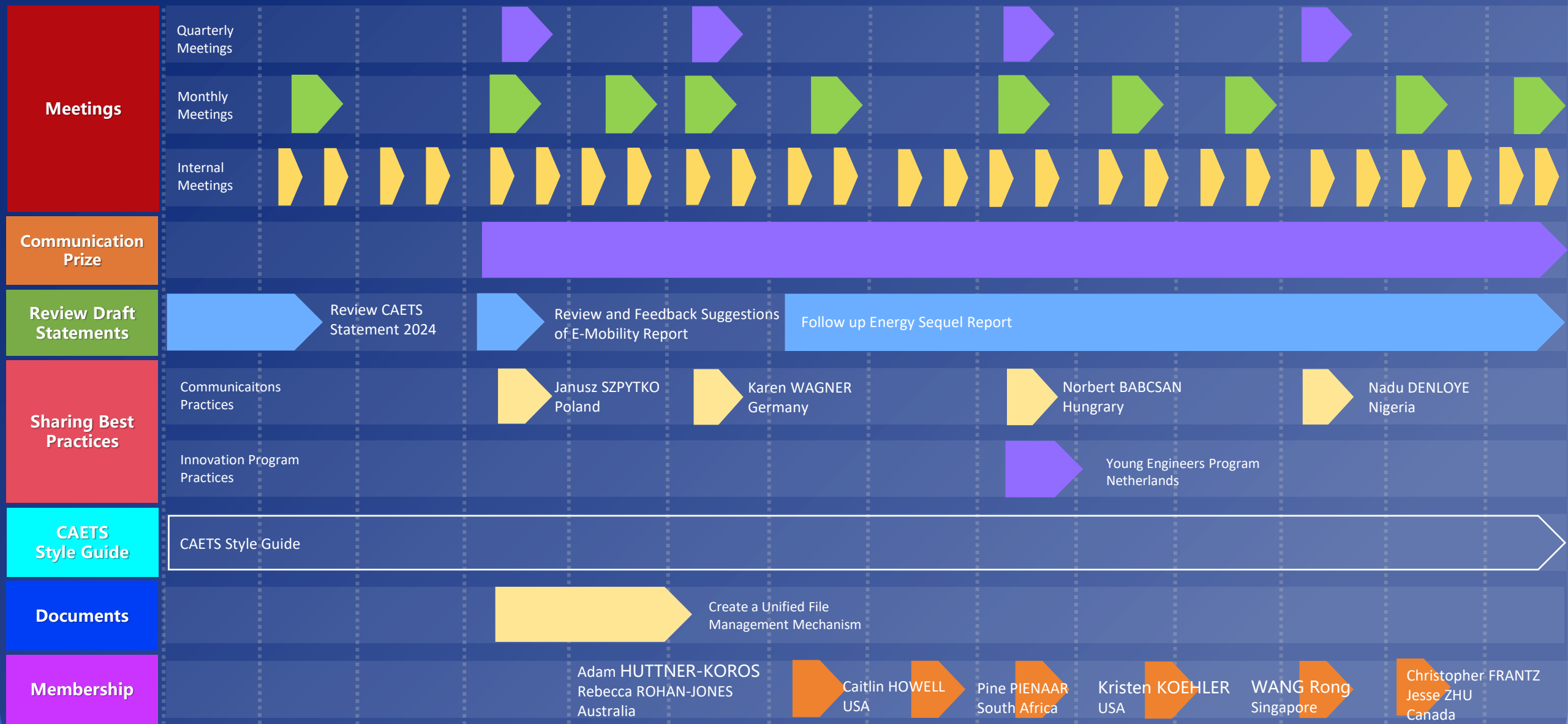
Mix of Fellows and Communications professionals

Committee Activities (July 2024 - August 2025)

Work plan is guided by charter in CAETS Operating Guidelines¹ :

1. Development and maintenance of a CAETS Style Guide
2. Coordination and supervision of the CAETS Communication Prize competition
3. Derivation and synthesis of key messages from Working Groups and other activities

1. Section 4b, Standing Committees - CAETS Operating Guidelines (February 2022)

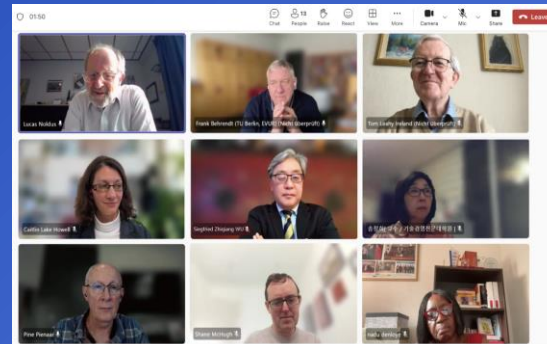


Committee Activities - Meetings

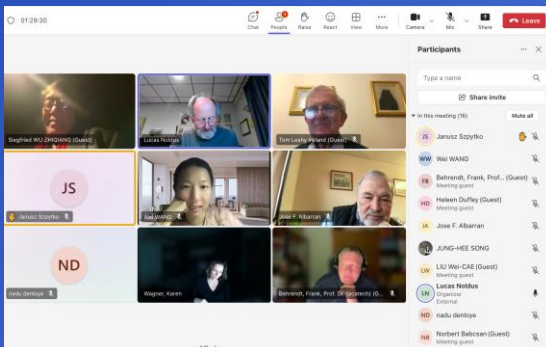
4 Quarterly Meetings



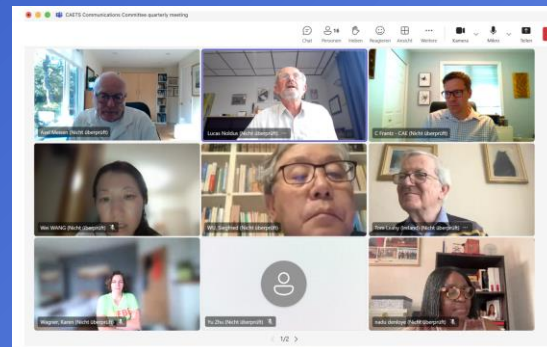
17 Oct 2024



13 Mar 2025

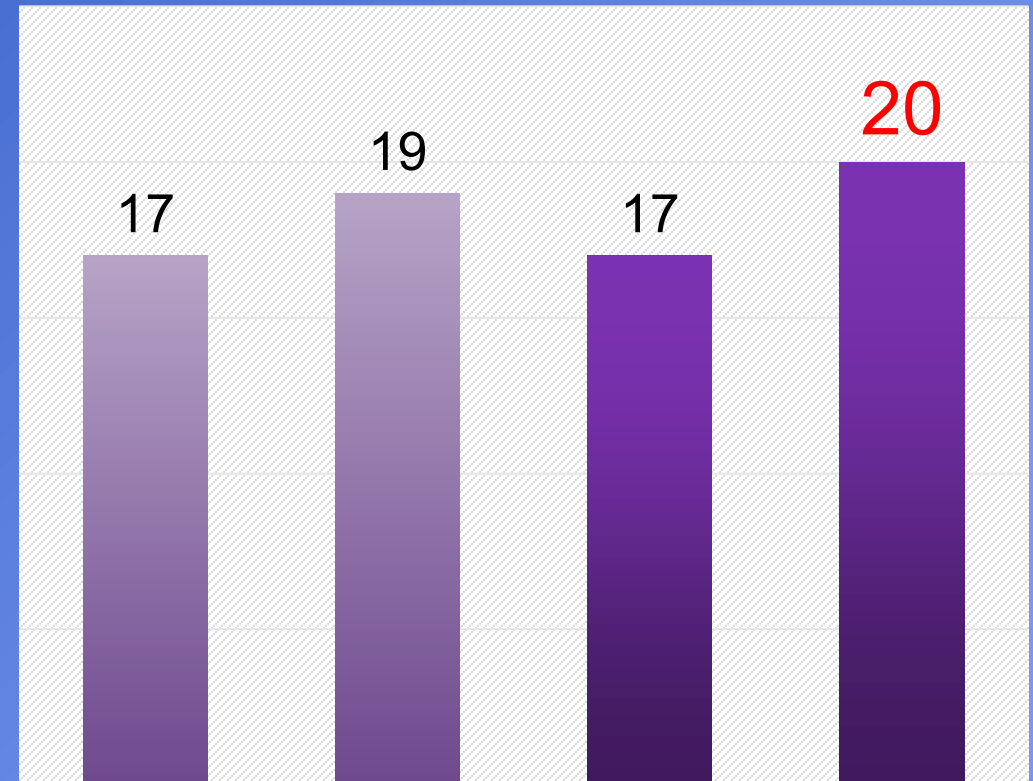


6 Dec 2024



10 Jun 2025

Number of Attendees



October December March June

Committee Activities - Meetings

10 Monthly Leadership Meetings



26 Biweekly Internal Meetings



Committee Activities - Communication Prize 2025

Work plan

- One prize category
- Monetary award of USD 5,000
- Support winner's travel to CAETS conference (reimbursement of travel, accommodation and conference fee)
- Judging complete 3 months ahead of conference

Communication Prize 2025 - Progress

CAETS Communication Prize 2025

Framework

Introduction
The paper sets out the Framework for the annual CAETS Communication Prize.

Background
The CAETS Communication Committee was established to help member academies enhance their communication on policy, educational activities, and the role of engineering and technological sciences in society. The goal is to strengthen an influence on both government and the public in an objective manner by clearly conveying the importance of technology to broad audiences.

We encourage technological innovation and engineers worldwide to communicate in a simple, engaging way with general audiences, including young people and students. This is done through a competitive selection of their videos, which will be assessed, recognizing the societal significance of technological advances and engineering achievements. Such videos have the best chance of:

1. Inspiring students to follow careers in engineering and technological sciences;
2. Educating the general public on the impact that engineering and technological sciences have on their lives and Britain.

The annual CAETS Communication Prize was established to recognize the best such video from each early career member and Academic Member globally.

Engineering Education Section
The Prize will be awarded to the most outstanding educational communication of a technological science or engineering innovation in the United Kingdom. The winning entry will have clearly demonstrated the societal significance of an innovation being benefited by the economy or society, either nationally or internationally. The video submissions may contain the problem and an evidence-based or applied solution, but not a commercial outcome or a call to action.

The prize will cover the registration fee to the annual conference as well as travel, accommodation up to £1000 (2024) in addition to a £1000 USD monetary award.

CAETS Communication Prize | Framework 2025

CAETS Communication Prize 2025

Submission Guidelines

The CAETS Communication Prize recognizes effective educational communication to general audiences of how applied technology and engineering has been or can be used to address a real-world problem, and the resulting benefits to the economy or society.

The prize is judged as a two-step process. Firstly, each CAETS member Academy selects a national winner. The national winner is then shortlisted for the international CAETS prize, selected by an international judging panel from CAETS member Academies. One international winner will be selected.

Deadline for national submissions: 11:59pm local time 31 March 2025

Deadline for international submissions: 11:59pm local time 30 April 2025

Winner's commitment
The winner of the prize will be announced online on 30 May 2025. The recipient will receive the prize at CAETS 2025, 8-11 September in Brisbane, Australia.

Each member Academy is to submit no more than one video, except where they are competing from different prizes.

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CAETS Communication Prize | Submission Guidelines 2025

CAETS Communication Prize 2025

Entry & Declaration

Entrants are to complete this form along with their video submission.

Title of entry

Name of member Academy submitting through

Personal details

Title	First name	Last name	Post nominal

Organization

Email address

International phone number

Country of residence

This should be the same country as the Academy you are submitting your entry to.

CAETS Communication Prize | Entry & Declaration

Launch the

Progress

Overview

How Samasara Eco Made a Jacket from Enzymatically Recycled Polyester



Glass Changes the World, We Change Glass



Smart QR: Empowering Women with Device-Free Body Fluid Testing towards Good Health and Well-Being



Solena: Living Engineering with Mexican Roots and Global Vision



Bio-mimicry: Inspired Sensors for Biomedical Sensing Applications



Innovative Technologies in the House of Arts



Sustainable Automotive Technologies: A TUT Case Study



Biofilters: Inside the Black Box



Ingestible Robotics - Unlocking the Gut's Brain



Automated Irrigation with Computer Vision in a Forestry Company



Communication Prize 2025 - Entrants

Australia



How Samasara Eco Made a Jacket from Enzymatically Recycled Polyester

Entrant: Nicholas Vevers

China



Glass Changes the World, We Change Glass

Entrant: Shou Peng

India



Smart QR: Empowering Women with Device-Free Body Fluid Testing towards Good Health and Well-Being

Entrant: Suman Chakraborty

Mexico



Solena: Living Engineering with Mexican Roots and Global Vision

Entrant: Guillermo Jose Aguirre Esponda

Netherlands



Bio mimicry: Nature-Inspired Sensors for Biomedical Sensing Applications

Entrant: Ajay Giri Prakash Kottapalli

Poland



Innovative Technologies in the House of Arts

Entrant: Marian Przybylski

South Africa



Sustainable Automotive Technologies: A TUT Case Study

Entrant: Barend Van Wyk

United Kingdom



Biofilters: Inside the Black Box

Entrant: Maria Vignola

United States



Ingestible Robotics- Unlocking the Gut's Brain

Entrant: Shriya Srinivasan

Uruguay



Automated Irrigation with Computer Vision in a Forestry Company

Entrant: Lucio Pelufo

Communication Prize 2025 - Outcome

- 10 entries from 10 countries
- Higher quality entries than previous years
- Winner: to be announced tomorrow

Communication Prize 2026 - Timeline

1 Oct 2025 ●

Launch of prize competition

31 Mar 2026 ●

In-country entries close

30 Apr 2026 ●

International entries close

31 May 2026 ●

Winner selected

14-17 Sep 2026 ●

Winner honored at the CAETS Annual Meeting

Committee Activities - Draft Statements Review

Work plan

- CAETS reports under development:
 - e-Mobility (transport decarbonisation)
 - Energy Community Sequel Project (low-GHG emissions >2040)

Our job

- Support authors to prepare CAETS statement based on executive summary of report

Committee Activities - Sharing best practices

Work plan

Provide a forum for member academies to learn from each other about:

- Communicating to the **sector/Fellows**
- Communicating with **the public**
- Communicating to **policy makers/decision makers**

Sharing best practices - Prensenterers



CAETS Communications Committee
quarterly meeting, on-line,
October 17, 2024, at 16:00 CEST



Akademia Inżynierska w Polsce
Academy of Engineering in Poland



Academy of Engineering in Poland
AIP communication activities



Prof. Dr hab. C. Eng. Janusz SZPYTKO
AGH University of Krakow,

www.henriccaets.org <https://akademianinzynierska.pl/>

Janus SZPYTKO
Poland
17 Oct 2024



CAETS Communications Committee –
Quarterly Meeting
December 6, 2024

Dr. Karen Wagner



Karen WAGNER
Germany
6 Dec 2024



Hungarian Academy of Engineering
communication activities

Magyar Mérnökakadémia (MMA)

Dr. Norbert Babcsán



Norbert BABCSAN
Hungary
13 Mar 2025

COMMUNICATING THE MISSION
AND IMPACT OF THE NIGERIAN
ACADEMY OF ENGINEERING



CAETS Communications Committee – Quarterly Meeting
June 10, 2025

Dr. Nadu Denloye

Nadu DENLOYE
Nigeria
10 Jun 2025

Sharing best practices – Current status

Presentations from 12 member academies

China

Ireland

Nigeria

Denmark

Korea

Poland

Germany

Mexico

UK

Hungary

Netherlands

USA

All presentations are archived on CAETS website (Members Only section)





Young Engineers

Netherlands Academy of Engineering

February 2025

Young Engineers at NAE

Our selection criteria for new Young Engineers span across their achievements, personality, motivation, and situation

Selection criterion	Description
Achievements	<ul style="list-style-type: none"> • Technical entrepreneurs or enterprising / highly valorising technical scientists • Evident impact and success from concrete valorisation of research and/or innovative products/services • Rising star / high potential in engineering-based entrepreneurship
Personality	<ul style="list-style-type: none"> • Active, enthusiastic and visible innovators • Unconventional, original view within the field of NAE, as well as a broad interest in applications of science and technology, also outside their own field
Motivation	<ul style="list-style-type: none"> • Aspire to be actively involved in the NAE, and are willing to work for the NAE's projects • Balance between how NAE adds value to them (network, mentor program), and the added value they want to provide for the NAE (contribution in working groups)
Study	<ul style="list-style-type: none"> • Completed an (engineering-relevant) education less than 10 years ago

JIAJUN CEN

CEO & FOUNDER AQUABATTERY



Jiajun obtained his PhD at Imperial College London. He has built two water-energy related companies: Desolenator (CTO) and AQUABATTERY (CEO). His patented ideas have established the foundation of Desolenator's solar-driven thermal desalination technology to produce purified water.

In 2014, he founded AQUABATTERY, a renewable energy storage company tackling the challenge of intermittent power from wind and solar. The company provides safe, scalable, and sustainable long-duration storage solutions using only water and salt.

Jiajun and his companies have won many awards and recognitions, including the personal accolades of FD Young Talent and Forbes 30 Under 30.

JIAJUN IS LOOKING FOR...

Opportunities for collaboration in advancing the technology and partners for manufacturing and distribution



"Engineers are needed to develop clean technologies to provide food, water, and energy for a sustainable and circular world. Let's make it happen, together!"



MARJOLEIN HELDER

CEO & FOUNDER PLANT-E



Marjolein obtained her PhD at Wageningen University, after which she started Plant-e in 2009.

Plant-e revolutionised the world of IoT, making use of energy generated by plants for sensors and lighting. This allows for worldwide monitoring of precious ecosystems at very remote locations, with a power source that lasts for decades. Plant-e provides 15 years of engineering and entrepreneurship knowledge with a strong focus on multidisciplinary and sustainable businesses.

Marjolein and Plant-e have won numerous awards, including the Impact Award as part of the Amsterdam Science & Innovation Award.

MARJOLEIN IS LOOKING FOR...

Landowners with a mission to restore wetlands that have a need for monitoring of environmental parameters



"Nature has developed a balanced energy system over billions of years. What makes us think that we humans can do better than that? Let's use the power of nature to power our sensors and charge your sensors!"

New members in 2025



Adam HUTTNER-KOROS
(Australia)



Rebecca ROHAN-JONES
(Australia)



Caitlin HOWELL
(USA)



Pine PIENAAR
(South Africa)



Kristen KOEHLER
(USA)



WANG Rong
(Singapore)



Christopher FRANTZ
(Canada)



Jesse ZHU
(Canada)

Expecting more members in 2026

Please join us! - Share best practices, learn and be inspired

Fully Occupied	Argentina Australia China Canada Denmark	Germany Ireland Korea Netherlands	New Zealand Nigeria Pakistan South Africa	Spain Switzerland United Kingdom United States
Partly Occupied	Czech Republic Finland France	Hungary India Japan	Mexico Poland	Serbia Singapore
Invited	Croatia	Slovenia	Sweden	Uruguay

Plans for the coming year (2025-2026)

Proposed activities

- Support CAETS 2025 conference hosts with preparation of CAETS statement
- Organize Communication Prize 2026 competition
- Support WGs with preparation of reports and CAETS statements
- Expand CAETS Style Guide with guidelines for reports
- Continue to share best practices

Resources needed

- WGs: provide planning of reports
- Member academies with communication teams: please share style guides
- More member academies represented in the Communications Committee
- Member academies: please sign up for presentation at quarterly meetings