

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 NOLDUSChair
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%)

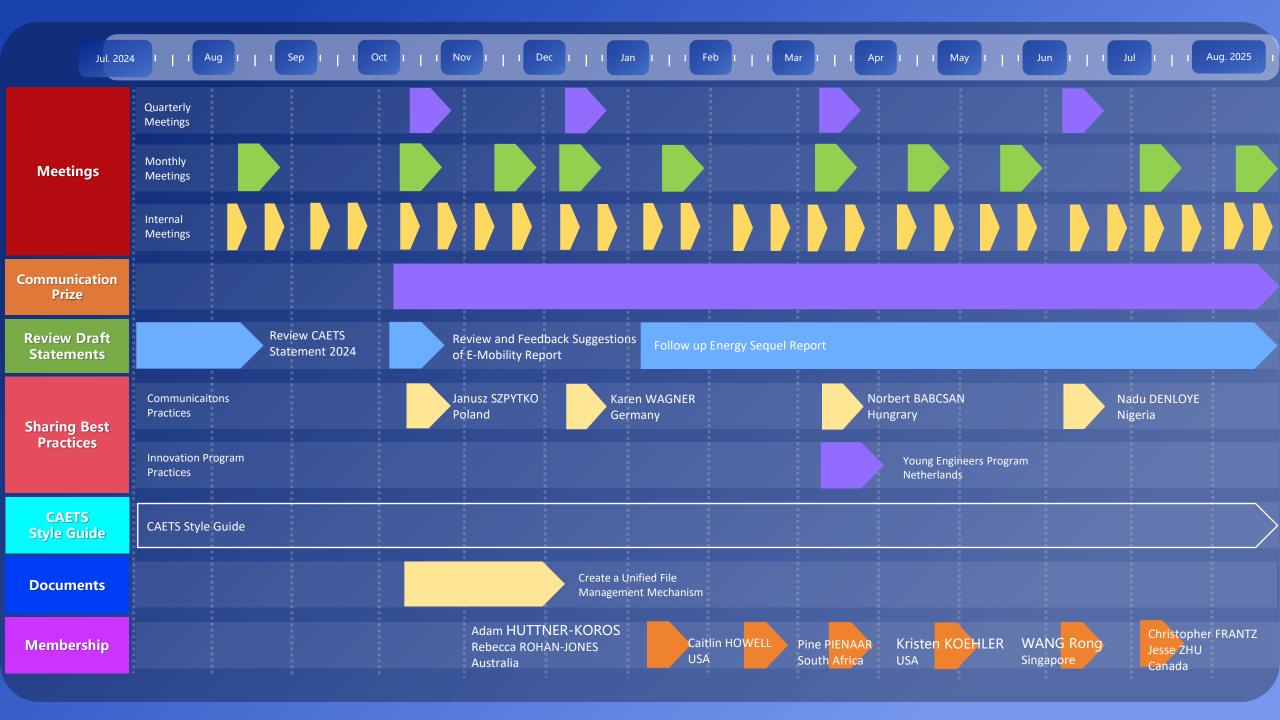
Mix of Fellows and Communications professionals

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

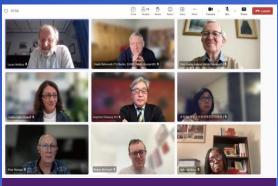
4 Quarterly Meetings



17 Oct 2024



6 Dec 2024



13 Mar 2025



10 Jun 2025

Number of Attendees



Committee Activities - Meetings

10 Monthly Leadership Meetings



26 Biweekly Internal Meetings

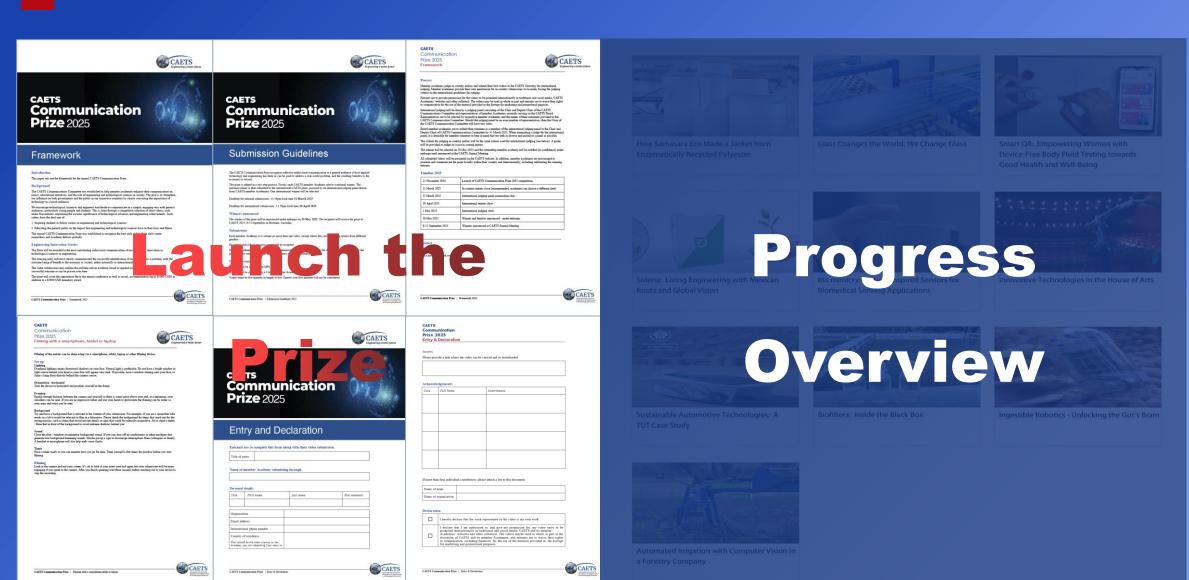


Committee Activities - Communication Prize 2025

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



Communication Prize 2025 - Entries

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

Mexio



Solena: Living Engineering with Mexican Roots and Global Vision
Entrant: Guillermo Jose Aquirre

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!

CAETS Communication Prize

Improvements approved by Communications Committee (today)

- Name of the prize remains "CAETS Communication Prize" but we add an explanatory subtitle:
 "The global award for engineering communication"
- We will shorten and simply the framework document
- We will launch next year's competition shortly after CAETS meeting
- Judging panel to be populated by Communications Committee (with ex-officio member from Board) rather than Board alone, with max. 1 member per academy
- Finalists to be published on CAETS and conference websites shortly after submission deadline

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 2026 Meeting

Committee Activities - Draft Statements Review

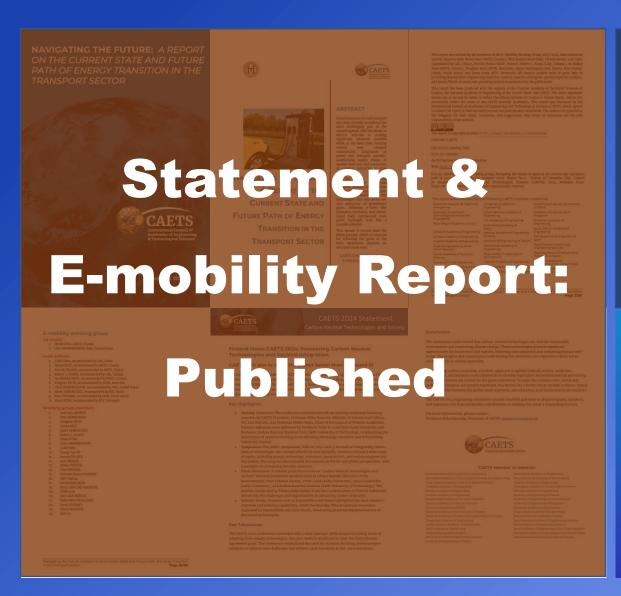
Work plan

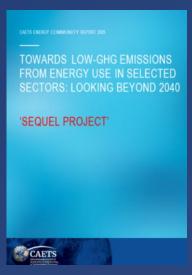
- CAETS reports under development:
 - · e-Mobility (transport decarbonisation)
 - · Energy Community Sequel Project (low-GHG emissions >2040)

Our job

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

Committee Activities - Draft Statements Review





Energy Sequel Report: almost finished

Looking forward to deliverables from WGs

- Diversity & Inclusion
- Engineering Education
- Engineering for Sustainability
- Artificial Intelligence

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 - Presenters



Janusz SZPYTKO
Poland
17 Oct 2024





Norbert BABCSAN
Hungary
13 Mar 2025



Nadu DENLOYE Nigeria 10 Jun 2025

Sharing best practices – Current status





JIAJUN CEN

CEO & FOUNDER AQUABATTERY



in

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!"

Young Engineers at NAE

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

S election criterion	Description
Achievements	 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	 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	 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	Completed an (engineering-relevant) education less than 10 years ago



MARJOLEIN HELDER





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 sense's!





New members in 2025



Adam HUTTNER-KOROS (Australia)



Rebecca ROHAN-JONES (Australia)



Caitlin HOWELL





Christopher FRANTZ (Canada)



Pine PIENAAR (South Africa)



Jesse ZHU (Canada)



Kristen KOEHLER (USA)



WANG Rong (Singapore)

Welcoming more members in 2026

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

Fu	lly

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 ATSE with preparation of CAETS 2025 statement
- Organize Communication Prize 2026 competition
- Support WGs with preparation of reports and CAETS statements
- Explore potential of AI tools
- Explore broader dissemination of CAETS statements
- Expand CAETS Style Guide with guidelines for reports
- Continue to share best practices

To do so, we need...

- Working groups: provide planning of reports
- Member academies with communication teams: please share style guides
- Communications Committee members: sign up for presentation at quarterly meetings → two more signed up today!
- Communications Committee members: volunteer to help with specific projects (AI tools, dissemination beyond CAETS academies) → several signed up today!