



CAETS

International Council of
Academies of Engineering
& Technological Sciences

CAETS Working Group: Engineering for Sustainability

CAETS Annual Conference

July 2024

@RAEngGlobal | www.raeng.org.uk

Overview

- The working group meets two to three times a year for cross-academy exchange
 - In the past there has been a focus on presentations from member academies on their initiatives relating to specific Sustainable Development Goals (SDGs) including SDGs 6, 7, 9, 11 and 13 focussing on clean water, energy, industry, cities and climate.
 - Most recently a new framing has been approved to bring the Working Group into a new phase of activity.
- The Working Group thanks David Thomlinson FREng for his fantastic term as Chair and welcomes Professor Peter Guthrie OBE FREng as the incoming Chair.

Professor Peter Guthrie OBE FREng

Director of Research in Sustainable Development, Department of Engineering, University of Cambridge



Peter Guthrie seeks to articulate sustainable development for engineers, and to pursue research that enables engineers to deliver more sustainable outcomes.

The research he leads is focused on the integration of sustainable development into decision-making in large infrastructure projects such as large-scale civil engineering projects, environmental restoration projects, regeneration schemes, and buildings worldwide.

Recent research has focused on the development of improved understanding of energy efficiency in buildings and the challenges (financial, social and environmental) faced in delivering significantly lower carbon emissions from building stock. The other main strand of research is into decision-making in infrastructure looking at stakeholder networks, the impacts of delay, post-disaster reconstruction, urban development, and heritage value.

Meeting attendees since the last convocation

Academy	Lead contributor(s)
AIP (Poland)	Prof. Sebastian Skoczypiec
ATSE (Australia)	Prof. Ian Lowe; John McGagh; Leeanne Bond
CAE (Canada)	Robert Crawhall
CAE (China)	Dr. Kejun Jiang
HAE (Hungary)	Norbert Babscan
INAE (India)	Pradeep Chaturvedi
IVA (Sweden)	Maria Rindeskar
NAE (Netherlands)	Prof. Jenny Dankelman
NAE (US)	Dr. David Butler
NATF (France)	Claude Nahon
PAE (Pakistan)	Prof. Dr Nasim A Khan
RAEng (UK)	David Thomlinson; Prof. Peter Guthrie (Chair)
SAAE (South Africa)	Felix Reinders

Refresh of the Working Group

Name: Engineering for Sustainability Working Group

Overall purpose: Promote the pivotal role of engineering in addressing global sustainability issues by positioning CAETS as an advocate for sustainable engineering practices globally.

- Through working group meetings, facilitate knowledge exchange between CAETS member academies around a set of key issues in engineering for sustainability, incorporating learning from emerging practice, policy and research.
- Generate examples of positive engineering interventions that can be used to engage and influence external stakeholders, promoting the pivotal role of engineering in addressing sustainability issues.
- Develop positions and messaging that represent the global engineering Academy's collective voice on key sustainability issues and promote these to global stakeholders, including by engaging with policymakers and decision makers in global multi-stakeholder forums.

Further information

See the members' area of the CAETS website for:

- Copies of presentations given by member academies
- Further resources relating to academies' own initiatives relating to the SDGs and sustainability more broadly

Academies not currently represented on the Working Group are very welcome to attend future meetings!