

Call for Abstracts



pccc-5
Post Combustion Capture Conference

IEAGHG 5th Post Combustion Capture Conference (PCCC5)

Kyoto, Japan

17-20 September, 2019



RITE
Research Institute of Innovative
Technology for the Earth

Post-combustion capture

Capture technology is generally the highest cost component of CCS. Within the CCS community, the search for the next, improved capture technology is of high importance. Scientists, technologists and engineers globally are exploring new materials and processes that might meet particular criteria, e.g. they are less costly to produce, are more efficient in their uptake of CO₂, require less energy to regenerate or separate the CO₂, have a lower environmental impact or exhibit less degradation.

There are now many capture technologies and processes that have been investigated at various scales, from laboratory to commercial-size units. However, going forward, reducing capital and operating costs is essential.

Within the CCS framework, the selection of the next capture technology to achieve commercial scale is essential. First movers have confirmed the technical feasibility of CO₂ capture solutions and their objective is now focused on decreasing cost on the construction and operation of second generation plants.

PCCC5

The IEA Greenhouse Gas R&D Programme (IEAGHG) is pleased to announce that PCCC5 will be hosted by the Research Institute for Innovative Technology for the Earth (RITE), Kyoto, Japan. IEAGHG has established its Post-Combustion Capture Conference (PCCC) series as one of the leading, if not the leading, post-combustion capture conference in the world. These conferences provide delegates with an excellent opportunity to share their knowledge, findings and expertise, while being updated on recent advances made on post-combustion capture (PCC) technologies internationally.

The technical sessions provided an international forum for the post-combustion capture community to share their experiences and successes, and to discuss what had worked and what had not. Oral presentations given in the technical sessions cover research and development from bench-scale, through pilot-scale testing to demonstration at large scale, as well as addressing process modelling and environmental impacts. Keynote presentations that precede the technical sessions are given by internationally-recognised experts and generally centre on technology and policy overviews, along with learnings from some of the large commercial CCS plants now in operation.

Previous conferences in the series have been held in Birmingham, Alabama (PCCC4), Regina, Canada (PCCC3), Bergen, Norway (PCCC2) and Abu Dhabi, UAE (PCCC1). A particular appeal of the conferences has been the opportunity to take part in informative technical visits that, for many, takes the technology from the laboratory or lecture hall into the real world. Attendees to PCCC3, for example, had the opportunity to visit SaskPower's Boundary Dam Unit 3, while PCCC4 offered participants visited the United States' National Carbon Capture Centre (NCCC) and Mississippi Power's Kemper County IGCC Project.

Topics for PCCC5

Topics to be covered at PCCC5 will include, but not be limited to:

- Process configurations
- Separation technologies
 - Liquid-based, solid-based, membranes
- Applications
 - BECCS, DAC
- Modelling
 - Thermodynamic, process, dynamic modelling
- Cost assessments
 - Cost methodologies, costs relating to power and industry applications, costs of integrating PCC into competitive energy markets,
- Environmental assessments
 - Aerosols emissions and mitigation, degradation products and mitigation, GHG footprint and emissions accounting
- Demonstration activities
 - Demonstration projects (pilot and large-scale), major national and international programmes, integrated CCS projects (demonstration, large and commercial-scale), early stages of integrated and demonstration projects, integration of PCC as part of CCU projects

Abstract Submission

Abstracts should be maximum two pages long and should be submitted prior to the closing date of 5 April 2019. Please submit using the abstract template accessible via the website link below. Further information on the conference will be updated on the website as and when available.

<https://ieaghg.org/conferences/pccc>

Steering Committee

Following are the members of the steering committee:

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| • D Keith BURNARD | IEAGHG, United Kingdom (Chair) |
| • Dr Paul FERON | CSIRO, Australia |
| • Prof. GAO Lin | Chinese Academy of Sciences, China |
| • Dr Monica GARCIA | IEAGHG |
| • Dr Kazuya GOTO | RITE, Japan |
| • Dr Michiaki HARADA | Japan Coal Energy Centre (JCOAL), Japan |
| • Mr Frank MORTON | National Carbon Capture Centre (NCCC), United States |
| • Prof. Gary ROCHELLE | University of Texas at Austin, United States |
| • Prof. Hallvard SVENDSEN | NTNU, Norway |
| • Prof. Paitoon TONTIWACHWUTHIKUL | University of Regina, Canada |
| • Ms Suzanne KILLICK | IEAGHG, United Kingdom (Event Administration) |

Important Dates

Now open	Abstract submission
5 April 2019	Abstract submission deadline
Mid May 2019	Notification of acceptance of presentations
17-19 September 2019	PCCC5
20 September 2019	Site visit

If you have any question regarding the conference, please contact Suzanne Killick at suzanne.killick@ieaghg.org or call her on +44 1242 802899.