

# ORGANIZING COMMITTEE

## ADVISORY COMMITTEE

Dr. Eden Y. Woon, President, Asian Institute of Technology  
Prof. Deepak Sharma, Vice President Academic Affairs,  
Asian Institute of Technology  
Prof. Rajendra Shrestha, Dean, School of Environment,  
Resources and Development, Asian Institute of Technology  
Prof. S. Kumar, Conference Chair, Energy,  
Asian Institute of Technology

## SCIENTIFIC ORGANIZING COMMITTEE

### Conference Chair

Prof. S. Kumar, Energy

### Technical Program Co-Organizers

Dr. Avishek Datta, Agricultural Systems and Engineering  
Prof. Shobhakar Dhakal, Energy

Prof. Thammarat Kootatep, Environmental Engineering  
and Management

Dr. Brahmanand Mohanty, Energy

Prof. Nguyen Thu Kim Oanh, Environmental Engineering  
and Management

Prof. Weerakorn Ongsakul, Energy

Dr. Indrajit Pal, Disaster Preparedness, Mitigation  
and Management

Prof. Joyashree Roy, Energy

Dr. P. Abdul Salam, Energy

Dr. Oleg Shipin, Environmental Engineering  
and Management

Dr. Sangam Shrestha, Water Engineering and Management

Dr. Jai Govind Singh, Energy

Dr. Sylvia Szabo, Development and Sustainability

Prof. C. Visvanathan, Environmental Engineering  
and Management

Dr. Ekbordin Winijkul, Environmental Engineering  
and Management

Dr. Wenchao Xue, Environmental Engineering  
and Management

# AWARDS and PUBLICATIONS

## Best Student Paper Awards and Conference Proceedings

Awards will be accorded to well-written and presented student papers.

The winning papers will also be invited for publication in the

### International Energy Journal

(a Scopus-indexed, ESCI-abstracted, and EI Compendex-listed peer-reviewed journal).

Conference proceedings will be published in IEEE Xplore

# SUBMISSION GUIDELINES

## Authors are invited to submit Full Papers

Papers must be written in English language, should be original and unpublished results of a conceptual, constructive, experimental and theoretical work or research in any of the topic areas covered by the conference theme. The full paper should be typically 7-10 pages in double column, single-spaced, (please see the guidelines for manuscript preparation at the conference website).

## Full Paper Submission Method (choose only 1 method)

1. as an attachment file to an email ([icue2020@ait.ac.th](mailto:icue2020@ait.ac.th)); or
2. via our Online Paper Submission platform at the website.

## Entries for Best Student Paper Awards (due on 31 May 2020)

The corresponding author MUST CLEARLY indicate that the submission will be vying for the Best Student Paper Award.

## Evaluation Process

All full papers will be subjected to *blind peer-reviews*. Relevancy, structure, sound research method and approach, innovativeness, results presentation, format, amongst many other factors will be considered for the evaluation process.

## Notification of Full Paper Acceptance for Oral Presentation

Acceptance of the full paper for oral presentation will be sent along with the review comments and recommendations by 31 July 2020. The same date stands for the Best Student Paper Award entries.

## Early submissions are very much welcome.

Notification of acceptance will be sent within 2 months of submission.

Authors are expected to present the accepted papers at the conference. Only full papers with *paid registration fee* of at least *one of the authors* will be included in the conference schedule and the abstract booklet/ program.

# IMPORTANT DATES

- 31 May 2020 Deadline for submission of full papers
- 31 July 2020 Notification of acceptance of full papers
- 31 July 2020 Deadline for early registration
- 31 July 2020 Deadline for registration for Best Student Paper Award entries

20-22  
October 2020 CONFERENCE

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# SPECIAL HIGHLIGHTS

- Plenary / Keynote presentations
- Paper presentations
- Best Students Paper Awards
- Special topics sessions
- Discussion forums
- Exhibition
- Trainings/workshops
- Technical field visits
- Network sessions

# CONTACT INFORMATION

## ICUE 2020 SECRETARIAT

Energy Program  
Department of Energy, Environment and Climate Change  
Asian Institute of Technology  
P.O Box 4, Klong Luang, Pathumthani, 12120, THAILAND

## Street Address:

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E-mail: [icue2020@ait.ac.th](mailto:icue2020@ait.ac.th)  
Tel: (66 2) 524 5413, 524 6216 (Direct)  
Fax: (66 2) 524 5439 (Direct)

Updates will be available at our website:  
[www.icue2020.ait.ac.th](http://www.icue2020.ait.ac.th)



**ICUE 2020** International Conference on  
**ENERGY ENVIRONMENT and CLIMATE CHANGE**  
20 - 22 October 2020  
Pattaya City, Thailand



ORGANIZED BY:  
ASIAN INSTITUTE OF TECHNOLOGY (AIT)



# CONFERENCE TOPICS

The ICUE 2020 conference will focus on three areas of current global concern and challenges – energy, environment and climate change. The list of conference topics are listed below.

## A. Energy

In the energy area, the technical, economic, and social dimensions of energy utilization, its effect to the environment and to climate change will be covered. The topics to be included (but not limited to) are:

- Recent trends in renewable (green) energy systems (RES), such as wind power, hydropower, solar energy, biomass, biofuel, geothermal energy, wave energy, tidal energy, hydrogen, etc
- Energy storage principles, trends and technologies
- Recent trends in fossil fuels (coal, oil and natural gas) technologies
- Power devices, driving circuits, and control techniques for renewable energy systems
- RESs in smart grid
- Grid interactive systems in hybrid RESs
- Hybrid RESs with/without fossil-based technologies
- Smart cities and transportation
- Electric power generation, transmission and distribution
- Power system design, operation and interconnection
- Power system optimization, planning and analysis
- Energy infrastructure
- Greening the industrial sector's energy use and options
- Reliability and maintenance in RESs
- Policies and strategies for promoting RESs
- Public awareness and education on RESs
- Energy efficiency in building designs
- Energy policies for improving energy access by promoting renewable energy, energy efficiency, and GHG mitigation
- New directions for energy policies in the context of rapid digitalization, application of artificial intelligence, big data and data analytics
- Green financing, green economy initiatives
- New business and financial models for energy projects
- Energy and sustainable development goals (SDGs)
- Trade-off and synergies of SDG goal 7
- Tariffs, incentives, and subsidies

## B. Environment

The current major concerns with regard to the environment include the status and remediation measures through technology and policy of air, water, and soil pollution, and issues related to waste and plastic management. Accordingly, some of the major areas of interest to the conference are on:

- Air, water and soil pollution: estimation, technologies and policies
- Waste management
- Plastic pollution and management
- Environmental management systems and policies
- Cleaner production
- Ecosystems, services, accounting, and management

## C. Climate Change

Climate change is one of the major threats to human survival due to increasing greenhouse gas emissions. The conference will broadly discuss topics related to climate science, greenhouse gas mitigation and climate change impacts and adaptation in terms of technology, policies, and measures to address the challenges. Some selected/suggested topics could be:

- Greenhouse gas mitigation and climate change
- CO2 capture and sequestration
- Economics of climate change
- Accounting of greenhouse gases
- Deep carbonization
- Climate policy assessment (progress and analysis of Nationally Determined Contributions, NDCs)
- Carbon market and climate financing
- Low carbon and climate resilient cities
- Lifestyle and behavioural change and climate change
- Climate-energy-water-food nexus: policy and practice
- Climate change projections: models and methods
- Climate change impacts and adaptation in water sector
- Critical infrastructures and risks

# VENUE



## Pattaya, Thailand

The Pattaya area of Thailand's eastern seaboard is host to a beguiling range of attractions. The range includes anything from ancient Thai traditions to modern adventures. One can find the simple pleasures of the nation's most lively party street or be humbled by unique religious treasures. Explore nature, art, science and culture in ways one would never have imagined. Enjoy the raw beauty of the rainforest canopy or the glitz and glamour of the cabaret stage. Top attractions include the Sanctuary of Truth, Nong Nooch Tropical Garden, Pattaya Floating Market, the Tiffany Cabaret Show, and nearby islands such as Koh Larn (Coral Island) and Koh Si Chang.

ICUE 2020 will be held in Jomtien Palm Beach Hotel and Resort. Located in the heart of Jomtien and a short ride from the rest of Pattaya, the hotel offers an outdoor pool and the beachfront is just across the road.

*A Special Hotel Booking form (guaranteed lowest rate) is available to download from the conference website.*

Visiting Pattaya is easy as there are many travel options to choose from. The city is just 147km off Bangkok and is one of the easiest cities to get to. It is well connected via Highway 7 (Motorway) and Highway 3 (Bangna-Chonburi route) and several buses and minivans depart from Bangkok's bus terminals in Ekamai and Mochit every half hour.



# REGISTRATION FEES

CATEGORY	Before 31 July 2020	After 31 July 2020
Regular Fee	[ ] 15,500 THB	[ ] 17,500 THB
RERIC Member, AIT Alumni and IEEE members**	[ ] 13,500 THB	[ ] 14,500 THB
Student ***	[ ] 8,500 THB	[ ] 10,500 THB
Extra Paper Fee+	[ ] 3,500 THB	[ ] 3,500 THB
Accompanying Person Fee	[ ] 7,500 THB	[ ] 7,500 THB

Payment via credit card is accepted. An online payment registration portal is available at the conference website: [www.icue2020.ait.ac.th](http://www.icue2020.ait.ac.th)

\* The registration fee covers attendance to all sessions, all conference materials, luncheons, coffee breaks, an invitation letter (for visa), and a technical tour. Registration is incomplete until payment is received. Authors MUST register for their papers to be included in the conference schedule, abstract/program, and proceedings. Cash is required for on-site registration. One (1) registration fee will be valid for only one (1) paper presentation.

\*\*, \*\*\* Scanned IEEE Member card and valid student ID cards must be submitted by email and shown during the event.

+ Any additional paper will be charged of an extra paper fee. Only one(1) extra paper will be allowed per one registered author/presenter. Student registration is also for one(1) presentation only.

**CANCELLATION POLICY:** All cancellations or refund request must be made in writing by email or fax to the ICUE 2020 Secretariat. Fifty percent (50%) refund of the amount received by the secretariat as stated in the original receipt will be given to cancellations received on or before 20 September 2020 (Thailand time). No refunds will be given for cancellations received afterwards. The refunds will be processed only after the conference.