

Preface

The 2021 7th International Conference on Energy Materials and Environment Engineering (ICEMEE 2021) was planned to be held on April 23-25, 2021 in Zhangjiajie, China. Due to the impact of COVID-19, many communities from all over the world were under strict health measures and strict travel restrictions, and participants of 2021 7th International Conference on Energy Materials and Environment Engineering (ICEMEE 2021) also meet with the difficulty of travel restrictions. Considering the situation that most of the authors would like to publish their articles and make academic communications as scheduled, ICEMEE 2021 was held on-line instead of postponing the conference. It was a challenge, not only to the organizers, but also to the participants who were delivering their speeches using videoconference tools, under different time zones.

The idea of the conference is for the scientists, scholars, engineers and students from the Universities all around the world and the industry to present ongoing research activities, and hence to foster research relations between the Universities and the industry.

The conference brings together about 170 leading researchers, engineers and scientists in the domain of interest from China, Malaysia, South Africa, Saudi Arabia and India. The conference model was divided into two parts, including keynote presentations and online discussion. In the first part, each keynote speakers were allocated 30 minutes to present their talks via Zoom. After the keynote talks, all participants joined in a WeChat communication group to discuss more about the talks and presentations.

We were greatly honor to have invited six distinguished experts as our keynote speakers. A.Prof.Jia Wen, from Hunan University, China, was the first one to perform a thought-provoking speech. Her research interests included Industrial consulting cases of suitability assessment for irrigation water and contaminated soil assessment. A.Prof.Xingxing Zhang, from Energy and community building, Dalarna University, Sweden as our second keynote speakers. His research interests are Solar adaptive façades, Energy data analytics, Adaption to future climate and Urban energy system modelling. Prof. Kim Choon NG, from King Abdullah University of Science & technology, Saudi Arabia. His research interests included adsorption cooling and air conditioning, seawater desalination, co-generation power systems analysis and testing. Double Hundred Distinguished Prof. Ali Kamali, from Northeastern University, China. He has outstanding research in Green production of advanced materials area. A.Prof.Mohd Arif Agam, from University Tun Hussein Onn Malaysia, Malaysia. His research interests are Nanotechnology, polymer resists and nanomaterials. Prof. Steivan Defilla, our finale keynote speakers, from Tianjin University, China. He has outstanding research in Sustainable urbanization area. Their insightful speeches had triggered heated discussion in the second session of the conference. The WeChat discussion lasted for about 30 minutes. Every participant praised this conference for disseminating useful and insightful knowledge.

The proceedings of ICEMEE 2021 span over 4 topical tracks, that include: Energy and Environment, Renewable Energy, Advanced Energy Technologies, Fuels and Combustion and other related fields. All the papers have been through rigorous review and process to meet the requirements of International publication standard.

We would like to express our gratitude to everyone involved. Without this dedicated cooperation, it would be impossible to hold the conference at such a high level and prepare the ICEMEE 2021 proceedings.

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