PREFACE: INTERNATIONAL CONFERENCE ON THERMOFLUIDS AND MANUFACTURING SCIENCE—2022

An International Conference on Thermofluids and Manufacturing Science (ICTMS 2022) was held during January 24–25, 2022 at Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, India, and was graced by eminent researchers and participants from different reputed organizations. KIIT University, an Institution of Eminence (IoE) declared by the Government of India, is known for hosting such international events in its beautiful campus throughout the year. ICTMS 2022 happened virtually due to precautionary restrictions of COVID-19.

The event was inaugurated with keynote sessions by Prof. Amaresh Kumar from the National Institute of Technology (NIT) Jamshedpur, India, and Dr. M.V. Reddy from New Graphite Limited, Montreal, Canada. The keynote speaker, Prof. Shripad Revankar from the School of Nuclear Engineering, Purdue University, USA, had an engaging deliberation on passive condensation systems used in nuclear reactors. An invited talk on a lean blow-out problem in a combustor was delivered by Prof. Swarnendu Sen from Jadavpur University, Kolkata, India. The solar energy expert Prof. Mohamed M. Awad from Mansoura University, Egypt, delivered a talk on ‘Energy–water nexus.’ An invited talk on ‘Shock Wave applications’ was delivered by Prof. Nagaraja S.R. from Amrita Vishwa Vidyapeetham Bengaluru, India at ICTMS 2022. Thermal and fluid engineering topics are always interesting for energy enthusiasts on a mission to become energy expert.

Presenters showcased their studies in the fields of heat transfer, fluid dynamics, thermodynamics, combustion, energy technology, and manufacturing science. The whole world needs efficient energy production which is also sustainable. Many researchers and mechanical engineers across the globe are working in diversified areas of thermal engineering, but their broader aim remains in providing solutions to generate clean energy. Without clean energy, the future of mother earth seems gloomy. KIIT ICTMS 2022 also offered an excellent opportunity for the participants to forge research relations and to find partners for inter disciplinary research.

Around 67 papers were presented virtually in eight technical sessions. However, only the relevant articles were forwarded for publication in a Special Issue of International Journal of Energy for Clean Environment (IJECE), published by Begell House, Inc. All the publications were selected after a double-blind review process by reputed researchers working in the same field. We are extremely thankful to all the patrons, including Prof. Ashwani Gupta, Editor-in-Chief of IJECE, for their kind support to make this event a success. Published articles will help the researchers with a glimpse of concise writing on numerical analysis or renewable energy.
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