

Advisory Committee

Professor Dr. Stratos Pistikopoulos, Director, Texas A&M Energy Institute, Texas A&M University, United States of America

Professor Dr. M. Tamim, Vice Chancellor, Independent University, Bangladesh

Professor Dr. Mohammad Iqbal, Vice Chancellor, Dhaka University of Engineering and Technology, Bangladesh

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Professor Dr. Abdus Salam, Pro-Vice Chancellor (Academic), University of Dhaka, Bangladesh

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Professor Dr. Muhammad Masroor Ali, Dean, Faculty of Postgraduate Studies, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Md. Mufazzal Hossain, Dean, Faculty of Science, University of Dhaka, Bangladesh

Professor Dr. Alfonso Mauricio Sales Cruz, Department of Process and Technology, Universidad Autónoma Metropolitana, Mexico

Professor Dr. Md. Abdul Mojib, Dean, Faculty of Agricultural Engineering and Technology, Bangladesh Agricultural University (BAU), Bangladesh

Professor Dr. Syeda Sultana Razia, Member, Bangladesh Energy Regulatory Commission, Bangladesh

Scientific Committee (Tentative)

Scientific Committee Convener: **Professor Dr. Iftekhar Uddin Bhuiyan**, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Michael Georgiadis, Department of Chemical Engineering, Aristotle, University of Thessaloniki, Greece

Professor Dr. Harun, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Md. Ali Ahammad Shoukat Choudhury, Department of Chemical Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Metin Turkay, Department of Industrial Engineering, Koç University Rumelifeneri Yolu, Turkey

Professor Dr. Alfonso Mauricio Sales Cruz, Department of Process and Technology, Universidad Autónoma Metropolitana, Mexico

Professor Dr. Tania S. Khaleque, Department of Applied Mathematics, University of Dhaka, Bangladesh

Professor Dr. Muhammad Hasanuzzaman, Department of Nanomaterials and Ceramic Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Dr. Erdal Aydın, Associate Professor, School of Chemical Engineering, Aalto University, Finland

Professor Dr. Salma Akhter, Department of Chemical Engineering and Polymer Science, Shahjalal University of Science and Technology, Bangladesh

Professor Dr. H. M. Mamun Al Rashed, Department of Materials & Metallurgical Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Zobair Ibn Awal, Professor and Head, Department of Naval Architecture and Marine Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Mohammad Ariful Haque, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Md. Shakhawat Hossain Firoz, Department of Chemistry, Bangladesh University of Engineering and Technology, Bangladesh

Dr. Nasir Ahmed, Former Member (Engineering), Bangladesh Atomic Energy Commission, Dhaka, Bangladesh

Dr. Sheikh Manjura Hoque, Chief Scientific Officer and Head, Materials Science Division, Atomic Energy Centre, Dhaka, Bangladesh

Dr. AFM Tariqul Islam, Chief Scientific Officer, Agricultural Engineering Unit, Bangladesh Agricultural Research Council, Dhaka, Bangladesh

Organizing Committees

Organizing Committee Convener: **Professor Dr. Tahsina Farah Sanam**, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Organizing Sub-Committee Members:

Professor Dr. Mohidus Samad Khan, Director and Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Rafiqul Gani, Adjunct Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Professor Dr. Iftekhar Uddin Bhuiyan, Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Mr. Farid Ahmad, Assistant Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Dr. Manzila Islam Tuheen, Assistant Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Mr. Rifat Rahman, Assistant Professor, Institute of Appropriate Technology, Bangladesh University of Engineering and Technology, Bangladesh

Mr. Raihan Ahmad Ashrafi
Mr. Md. Moniruzzaman Sarker
Conference Secretary: Mr. Raihan Ahmad Ashrafi 2030 WRG, The World Bank

Important Dates

30 September 2026

Submission of Extended Abstract

31 October 2026

Notification of Extended Abstract Review

30 November 2026

ACamera-ready Manuscript Submission

** All accepted extended abstracts will be published in the Conference Proceedings*

** Selected papers will be invited for publication in a peer-reviewed indexed journal.*

Registration Fees

Early Bird: (before 15 Nov 2026)

Professionals : 6000/-

Students: 3000/-

Regular : (after 15 Nov 2026)

Professionals: 8000/-

Students: 4000/-

Conference Secretariat

All forms and relevant information will be posted on the conference website and updated regularly. Please contact the Conference Secretariat for all other correspondence and information.

Institute of Appropriate Technology (IAT)

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**SCAN for
Details**



**INTERNATIONAL CONFERENCE ON
APPROPRIATE TECHNOLOGY
AND SUSTAINABILITY 2027**

ICATS 2027



DATE

19–21 JANUARY 2027



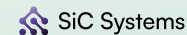
VENUE

BUET, DHAKA-1000, BANGLADESH

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About ICATS 2027

Rapid industrialization, climate vulnerability, resource constraints, and socio economic disparities have created an urgent need for appropriate, sustainable, and context-responsive technologies in developing countries. Bangladesh, as one of the world's fastest-growing economies, faces the dual challenge of sustaining industrial growth while ensuring environmental protection, resilience, and equitable development.

The Institute of Appropriate Technology (IAT) at BUET has long been a national leader in promoting affordable, inclusive, and environmentally responsible engineering solutions. To accelerate this mission and strengthen global collaboration, IAT proposes to host the International Conference on Appropriate Technology and Sustainability 2027 (ICATS 2027).

ICATS, a biennial event, will serve as a global platform for researchers, industry leaders, policymakers, and development partners to exchange knowledge, showcase innovations, and build partnerships that support sustainable industrial transformation in Bangladesh and beyond.

Conference Themes

ICATS 2027 will explore cutting-edge research and practical innovations across:

- Sustainable industrial systems
- Water, environment, and climate resilience
- Appropriate technologies in LEs and SMEs
- Community-focused appropriate technologies
- Digital, smart, and intelligent technologies for sustainability
- Sustainable materials, products, and process innovation
- Policy, governance, and technology transfer

Expected Participants

- International and national researchers
- Industry leaders and technology innovators
- Government agencies and development partners
- Development partners and donor agencies
- NGOs, entrepreneurs, and sustainability practitioners
- Entrepreneurs and start-ups
- Graduate students and early-career researchers

Expected Outcomes

- High-impact technical program
- Attractive publication policy
- Strategic partnerships and MoUs
- Roadmaps for sustainable industrial and community technologies
- Strengthening global network for appropriate technology and sustainability
- Enhanced visibility of BUET as a regional hub for sustainable innovation

Conference Publication

Accepted abstracts will be asked to submit Extended Abstracts. All Extended Abstracts will be included in the Conference Proceedings. Selected Extended Abstracts will be invited to prepare a complete manuscript for publication in a Special Issue in



"Appropriate Technology and Sustainability," which is a new thematic section of MDPI across four internationally indexed journals listed in both Scopus and Web of Science:

Journal Name	Impact Factor	CiteScore	Launched Year
 Multimodal Technologies and Interaction	3.3	6.6	2017
 Processes	3.3	5.7	2013
 Sustainability	3.4	8.9	2009
 Technologies	4.1	6.7	2013

"Appropriate Technology and Sustainability" aims to provide a platform for high-quality research on how appropriate, innovative, and sustainable technologies can help solve real-world challenges—particularly in developing and emerging economies.

Topic Editors

Prof. Dr. Rafiqul Gani

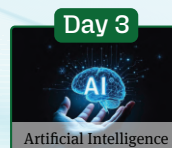
Prof. Dr. Mohidus Samad Khan

Keywords

Appropriate Technology; Context-Responsive Design; Sustainability and Circularity; Resource Efficiency and Economic Viability; Social Inclusiveness and Environmental Stewardship; Climate Resilience and Industrial Transformation; Community-Focused Development; Local Adaptation and Scalable Solutions

Water, Energy and AI EXPO: Appropriate Technology for Bangladesh

In addition to the Plenary Lectures and Technical Sessions, ICATS2027 will feature a dedicated series of Panel Discussions and Keynote Lectures, structured around three principal thematic areas.



Conference Co-Chairs



Prof. Dr. Rafiqul Gani

CEO
PSE for SPEED
Distinguished Adjunct Professor
Institute of Appropriate Technology (IAT), BUET



Prof. Dr. Mohidus Samad Khan

Director
Institute of Appropriate Technology (IAT), BUET
and Professor
Department of Chemical Engineering, BUET

Plenary Speakers



Prof. Stratos Pistikopoulos

Director, Texas A&M Energy Institute
Artie McFerrin Department of Chemical Engineering
Texas A&M University



Prof. Metin Turkay

Professor
Industrial Engineering
Koc University



Prof. Michael Georgiadis

Professor
Department of Chemical Engineering
Aristotle University of Thessaloniki



Prof. Dr. rer. Nat. Hesham A. El Enshasy

Director
Innovative Centre in Agrotechnology for Advanced Bioprocessing (ICA)
Universiti Teknologi Malaysia (UTM)



Prof. A. Mauricio Sales-Cruz

Professor
Department of Process and Technology
Autonomous Metropolitan University – Cuajimalpa (UAM.-C)



Dr. Erdal Aydin

Associate Professor
Department of Chemical and Metallurgical Engineering
Aalto University