

About CWM

To encourage and motivate researchers across the globe, several research centers have been initiated in the institution and are progressively working towards innovation in the field of Science and technology. Sathyabama Institute of Science and Technology with the joint initiative of the National Solid Waste Association of India (NSWAI) has established the Center for Waste Management in 2011. Center was devoted to develop innovative products, patent liable novel ideas in Waste Management, publish experimental outcomes in Q1 journals, train graduate students, offer consultancy services and pursue outreach activities so as to translate the research findings to the society for environmental and economic benefits

About UTS

UTS is a public university of technology that supports economic, social and cultural prosperity of communities. UTS has a culturally diverse campus life and vibrant international exchange study and research programs that prepare graduates for the workplaces of today and the future. Continuing a 10-year period of major development, the ongoing transformation of the UTS campus ensures to maintain and develop a purpose- and sustainably-built campus to support innovation in education and research. The purpose of UTS is to advance knowledge and learning through research-inspired teaching, research with impact and partnerships with industry, the professions and community

About ICAME-2022

"Advanced Materials for Environmental Protection" is a thematic subject area towards protecting the environment and is urgently needed globally. This e-conference is being organized by Sathyabama Institute of Science and Technology (SIST), Chennai and University of Technology Sydney (UTS), Australia to present and exchange knowledge in advances in material science that allow developing effective tools for water/air/soil protection and remediation. The conference will be organized to create forums to deliberate on interdisciplinary topics, especially on advanced materials for a wide range of environmental applications. This thematic session will provide opportunities for researchers, engineers, students, professionals, and business giants to present their research results, breakthrough innovations, discoveries, path-breaking ideas, experiences, and product display at a global platform

**Articles of high quality will be published
in Scopus / WoS / Impact factored
journals**

About Sathyabama

Sathyabama Institute of Science and Technology is one of South India's premier Academic and Research Institutions that offers multi- disciplinary academic programmes in various fields of Engineering, Science, Technology, Management, Dentistry, Law and Nursing. It has been Accredited with 'A' Grade by the National Accreditation and Assessment council. Sathyabama's standing in rankings and ratings are excellent at National and International level. For the year 2020, Sathyabama Institute of Science and Technology has been ranked in 39th position among the Universities in India by the National Institutional Ranking Framework (NIRF), Government of India. NIRF has consistently ranked Sathyabama in the top 50 positions and this is the fifth consecutive year the Institution is receiving this recognition.

About CNSNT

The Centre for Nanoscience and Nanotechnology was established in January 2006 at the University campus to accomplish the goal of enhancing advanced research in the areas of Nanoscience and Nanotechnology. The leading area of research includes nanomaterials, nanotechnology, composite materials, nanoelectronics and nanofabrication. In addition to research, the centre also conducts training and awareness programme, workshops, national and international conferences on recent trends and developments on various themes of national interests. The Centre is undertaking research and development projects from various national/international funding agencies. The MHRD, Government of India has funded for the establishment of Centre of Excellence for Energy Research under the scheme of Establishment of Centre of Excellence in the Frontier Areas of Science and Technology (FAST) at the Institute. The institute offers research fellowships and scholarship programmes to students and researchers to facilitate for innovations and advancements in higher education

About Chennai

Chennai, capital city of Tamil Nadu is a historical city of India, residing on the coromandel coast of Bay of Bengal. It serves as a major cultural, economical, educational and commercial center of south India. It has numerous UNESCO heritage sites in Mahabalipuram, Marina beach, theme parks, Arignar Anna Zoological park, etc.



Sathyabama

Institute of Science and Technology
(Deemed to be University)



International Conference on Advanced Materials for Environmental Protection

ICAME-2022

19-10-2022 to 21-10-2022

Sponsored by SPARC-MHRD



Organised by

Centre for Nanoscience and Nanotechnology
Centre for Waste Management &
Centre of Excellence for Energy Research



The topics which are covered are

Carbon Materials (SDG 6, 7, 8, 9, 14)

- Formation, structure, properties, behaviours, and technological applications of carbons
- Carbon black; carbon fibres and filaments; carbon nanotubes; diamond and diamond-like carbon; fullerenes; glassy carbon; graphite; graphene; graphene-oxide; porous carbons; pyrolytic carbon; and other sp² and non-sp² hybridized carbon systems
- Application in biology and medicine; catalysis; electronic, optoelectronic, spintronic, high-frequency, and photonic devices; energy storage and conversion systems; environmental applications and water treatment; smart materials and systems; and, structural and thermal applications

Biofouling (SDG 9, 11, 14)

- Membrane Biofouling
- Biofilm in food industry
- Biofouling in Biomedical devices
- Antimicrobial agents/nanoparticles
- Biofouling in Heat exchanger Pipelines
- Biofouling in Concrete Structures
- Marine Biofouling
- Biofouling in Refineries

Biomass and Bioenergy (SDG 1, 2, 7, 15)

- Waste to Bio-energy (Bio-gas, Bio-oil, Bio-diesel, Bio-hydrogen, Bio-ethanol, Bio-methanol, etc)
- Biomass and Feedstock Utilization
- Biopolymer and Bio-plastics
- Bioprocesses and Bioproducts from Waste
- Waste Valorisation for Sustainable Development and Green Engineering
- Solid waste and Hazardous Waste Management
- Resource recovery from E-Waste
- Sustainable Processing of Plastic Waste, Sludge, Bio-medical waste, Biomass, etc
- Waste Processing via Artificial Intelligence and IoT, etc

Gas/Oil Pipeline Corrosion (SDG 6, 7, 9, 11)

- Corrosion in Crude oil/Natural gas/ Water injection pipeline
- Cathodic Protection
- Corrosion inhibitors
- Deepwater corrosion
- Corrosion protection of heritage monuments

Protective Coatings (SDG 8, 9, 11)

- Organic based thin film coatings
- High performance coatings in protection of metallic substrates
- Antibiofouling based organic coatings
- Organic based coatings for smart packaging in food and Agricultural industry
- Photocatalytic and self-cleaning coatings for optical industries
- Organic based superhydrophobic coatings for emerging applications
- Thermal / Diffusion barrier coatings for high temperature environment
- Hybrid nanocomposite organic coatings for environmental and energy applications
- Electrospun polymer nanofibers

Wastewater Treatment (SDG 3, 6, 9, 14)

- Carbon materials in water and environment
- Water Management for Sustainable Cities
- Wastewater Discharge Processing
- GIS Application for Water Management
- Removal and Degradation Strategies for Organic pollutants and other Emerging Pollutants
- Industrial Wastewater Treatment
- Water Pollution and Water Quality Control
- Sludge Management in Treatment Regimes
- Marine, Terrestrial and Freshwater Ecosystems
- Resource Recovery from Wastewater
- Adsorption, Bio-Remediation, AOPs, etc
- Nano-materials and Composites in Water Treatment

Bio-Remediation (SDG 13, 15)

- Biological/physical treatment to treat contaminated soil
- Environmental restoration
- Heavy metal detection/removal
- Detoxify contaminants by plant enzymes
- Phyto-assisted bioremediation (PABR) strategy
- Microbial genetic improvement

Bio-Corrosion (SDG 6, 9 11)

- Corrosion in fuel pipelines
- Bio tribo-corrosion
- Microbially Influenced Corrosion
- Concrete corrosion
- Bio-Electrochemistry
- Electrochemical applications in biomedical industries
- Theoretical approaches in bio-electrochemistry
- Environmentally influenced bio-corrosion

Organizing committee

Patrons

Dr. Mariazeena Johnson, Chancellor

Dr. Marie Johnson, President

Mr. J. Arul Selvan, Vice-President

Ms. Maria Bernadette Johnson, Vice-President

Ms. Maria Catherine Jayapriya, Vice-President

Dr. T. Sasipraba, Vice Chancellor

Organising Secretary

Dr. Vinita Vishwakarma, Professor (Research), CNSNT

Dr. Dawn S S, Professor (Research), CWM

Dr. Saravanamuthu Vigneshwaran, Emeritus Professor, UTS

Conveners

Dr. K. Gobi Saravanan, Assistant Professor (Research), CNSNT

Dr. J. Arun, Assistant Professor (Research), CWM

Important dates

Abstract submission deadline : 10-10-2022

Notification of acceptance : 12-10-2022

Last date for registration : 15-10-2022

Registration fees

Students & Research scholars : Rs. 1000

Academicians & Industrial person : Rs. 1500

Foreign Delegates : 40 USD

For payment and further details kindly visit

<http://icame-2022.com/>

Contact us

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