

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 2022, Sathyabama Institute of Science and Technology has been ranked in 43rd 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 seventh consecutive year the Institution is receiving this recognition.

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 Conference

ICWEE-2023 promotes the major themes of sustainable waste utilization, energy and environmental engineering. Waste is a valuable resource for recovery of various value added products. Energy engineering is the emerging discipline for acheiving negative carbon emission. Environmental engineering aims to provide clean water, air and land for better living as per sustainable development goals (SDGs). This forum will be a platform for researchers, scientists, academicians, etc to share their research ideas in acheiving SDG goals.



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

Conveners

- Dr. N. Nirmala, Assistant Professor (Research), CWM
- Dr. Arun J, Assistant Professor (Research), CWM

Co-conveners

- Dr. Sathish S, Associate Prof & Head, Chemical
- Dr. Prabu D, Associate Prof, Chemical
- Dr. M. Sivasakthi Assistant Professor (Research), CWM
- Dr. P. Priyadarsini, Scientific Assistant, CWM

Organising Committee

- Mr. Santhosh A, Project Coordinator (STI-HUB), CWM
- Ms. A. Bhuvaneshwari, Project Assistant (STI-HUB), CWM
- Mr. J. Jayakanth, Project Assistant (STI-HUB), CWM
- Mr. S. Sanjay Kumar, Project Assistant (STI-HUB), CWM
- Mr. P. Mazhalaiselvan, Project Assistant (STI-HUB), CWM

Highlights

- An arena for **Industry-Academia Connect** to nurture the translation of research outcomes to real time applications in various walks of life will be provided. This will create opportunities for **Startups, MSMEs, Social Entrepreneurs** and relevant industries to interact with the researchers worldwide.
- R&D organizations and Industries can avail opportunities to **exhibit their latest technologies** and developments in Waste, Energy and Environment sectors by being elite sponsors of the conference.
- Paper and Poster presentations** to deliberate the research findings amidst a panel par excellence.
- Invited Talk & Panel discussions** in the thematic areas.
- Post Conference Workshop/Hands** on Training on 8-7-2023 with an additional INR 300, that provides opportunities for the delegates to get trained in **Atomic Absorption Spectrometry and Gas Chromatography-TCD/FID** relevant to heavy metal detection in waste water samples and composition analysis of biofuels and solvents.



Sathyabama

Institute of Science and Technology
(Deemed to be University)



Centre for Waste Management

&



Centre of Excellence for Energy Research

jointly with

Department of Chemical Engineering

Organize

3rd International Conference

on

Waste, Energy and Environment

ICWEE-2023

05-07-2023 TO 07-07-2023



Topics to be covered

The topics which are covered are

Energy Engineering (SDG 7, 15)

- Renewable energy - Biofuels
- Applied Catalysis in Energy Engineering
- Thermo-chemical Conversion of Biomass into Fuel
- Energy Storage, Conservation and Conversion
- Energy from Biomass, Water, Waste
- Alternative fuels Strategies for India
- Engine performance and Emission Studies
- Sustainability and Clean Energy
- Fuel Cell Technologies
- Energy Materials and Devices
- Solar cells and Energy
- Nano-technology in Energy and Environment
- Biomass and Bio-energy
- Process Modelling, Simulation and Chemical Reaction Engineering

Waste Processing (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
- Safety Engineering and Occupational Health
- Labor Safety and Sanitation
- Workplace Risk Management
- Public Health and Environment
- Waste Minimization and Pollution Prevention

Environment and Water Quality (SDG 6, 13, 14)

- Water Management for Sustainable Cities
- Wastewater Discharge Processing
- GIS Application for Water Management
- Removal and Degradation Strategies for Organic pollutants and other Emerging Pollutants

Contd.....

- Biochar based materials in water and environment
- Water Purification
- Adsorption, Bio-Remediation, Advanced Oxidation Process, Other Techniques, etc
- Nano-materials and Nano-Composites in Water Treatment
- Industrial Wastewater Treatment
- Water Pollution and Water Quality Control
- Sludge Management in Treatment Regimes
- Marine, Terrestrial and Freshwater Ecosystems
- Resource Recovery from Wastewater

Environmental Engineering (SDG 3, 6, 13, 14)

- Climate Change and Global Warming
- Air, Soil, Water Pollution and Modelling
- Air Quality Control
- Carbon Capture, Storage and Utilization
- Resource Recovery During Pollution Control
- GIS Application for Air Pollution Modelling
- Soil Health Assessment
- GIS Application for Land Use
- Environmental Risk Assessment
- Ecology and Mitigation Engineering
- Environmental Fate Studies (Transport, Bio-accumulation, Bio-degradation, etc)
- Environmental System Modelling and Optimization
- Economic, Social and Policy towards Environmental Management

Important dates

Abstract submission deadline : 22-06-2023

Notification of acceptance : 22-06-2023

Early bird registration : 24-06-2023

Registration with late fees : 28-06-2023

Registration fees

	Before 24-06-2023	After
Students & Research scholars	Rs. 2000	:Rs. 2500
Academicians & Faculty	: Rs. 3000	:Rs. 3500
Industrial persons	: Rs. 4000	:Rs. 4500
Foreign Delegates	: 75 USD	:100 USD
Participation	: Rs. 1000	:Rs. 1500

Call us for fees concession (For UG & PG students)

Accommodation is free of cost if approached early

Publication charges extra (if you choose open access)

Advisory committee

INTERNATIONAL

Dr. Arivalagan Pugazhendhi, Ton Duc Thang University, Vietnam.

Dr. Eldon Rene, IHE-Delft, Netherlands

Dr. Ajay Shah, Ohio State University, United States

Dr. Jorge Beltrami, Queensland University of Technology, Australia

Dr. Saravanamuthu Vigneshwaran, University of Technology, Sydney, Australia

Dr. Anteneh Mesfin Yeneneh, International Maritime College, Oman

Dr. Ayushi Agarwal, University of Toronto, Canada

Dr. Vadivel S, Tokyo Institute of Technology, Japan

NATIONAL

Dr. Sivasubramanian, NIT Calicut, Kerala

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Dr. I Ragupathi - NIT, Surathkal

Dr. G. Arthanareeswaran, NIT Trichy

Dr. Deepak Kumar Ohja - IIT Roorkee

Technical committee

Dr. Karthikeyan K, Former Member Secretary, TNPCC.

Dr. A. Annam Renita, Professor, Chemical

Dr. D. Venkatesan, Associate Professor, Chemical

Dr. M. Karthikeyan, Assistant professor, Chemical

Mr. Michael Rahul Soosai, Assistant professor, Chemical

Journal Publications

1. Energy, Ecology and Environment

2. Archives of Microbiology

Few more journals will be updated shortly in website

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.



Valluvar kottam



Marina beach



Santhome church



Mahabalipuram



Vandalur zoo



Muttukadu

Speakers



Dr. Tjandra Setiadi
Institut Teknologi Bandung
Indonesia



Dr. P. Kuppusami
Sathyabama



Dr. Kannan Pakshirajan
IIT Guwahati



Dr. K. Karthikeyan
Former Member Secretary,
TNPCC



Dr. Deepak Kumar Ojha
IIT Roorkee



Dr. R. Saravana Thamizhan
A. C. Tech, Anna University

Facilities at CWM



Biogas plant
1 Tonne Capacity



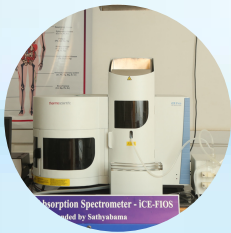
Bio-diesel plant
50 L Capacity



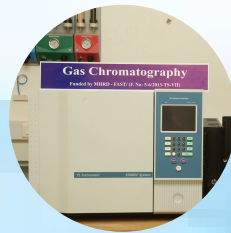
Hydrothermal Reactor



Photo bio-reactor



Atomic absorption spectrophotometer (AAS)



Gas Chromatography



Microalgae cultivation



Cloud, Pour, Flash & Fire point



Bomb Calorimeter
Bio-diesel property testing



Turbidity meter

Registration details

1. **GPay and PhonePe** : 9080713565, 9789035073
2. **Demand draft** : Demand Draft in favor of "Sathyabama Institute of Science and Technology", payable at Chennai, INDIA.
3. **Netbanking** :

Account Name : "Dean (Publications & Conferences), Sathyabama Institute of Science and Technology (Deemed to be University) "

Account Number : 891734627

IFSC Code : IDIB000T020

SWIFT Code : IDIBINBBTTLT

Branch code : 098

Bank & Branch : Indian Bank, Thousand lights branch, Chennai - 600 006, India.

To Register

- Kindly register through following link

CLICK HERE

Further communications will be sent to your registered mail id

Click for Conference website

Contact us

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Centre Website : **CLICK HERE**

Centre Youtube channel : **CLICK HERE**

