

National Symposium on Sustainable Energy Conversion & Storage Materials (NSSECSM-2018)

26-27 April 2018

Sponsored by



DST-SERB
New Delhi

BRNS
Mumbai



Organized by

Centre for Nanoscience and Nanotechnology
Centre of Excellence for Energy Research



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with Grade "A" by NAAC

Sathyabama Institute of Science and Technology

Sathyabama Institute of Science and Technology is a pioneer institute, imparting knowledge in the areas of Engineering, Science, Technology and Management. It is accredited with “A” Grade by NAAC and declared as category “A” deemed University by MHRD, Government of India and has been ranked in 44th position by the NIRF among the Indian Higher Education Institutions in 2017. The Institute has a team of dynamic and outstanding faculty, innovative pedagogical practices, state-of-art infrastructure and multi-disciplinary academic programmes at under graduate, postgraduate and doctoral level and global alliances with leading universities and research establishments. It is a research intensive Institute involved in research in the emerging areas of Science and Technology. Sathyabama deemed University is a potential destination for students across the globe owing to its admirable academic and research ambiance. The Institution has undertaken many sponsored and collaborative Research and Development projects funded by various national organizations such as Department of Science and Technology (DST), Indian Space Research Organization (ISRO), Department of Biotechnology (DBT), Department of Atomic Energy (DAE), Defence Research and Development Organization (DRDO), Ministry of Environment and Forests (MoEF), Ministry of Earth Sciences (MoES) etc.

Centre of Excellence for Energy Research

The Centre of Excellence for Energy Research, a part of **Centre for Nanoscience and Nanotechnology** has been funded by the Ministry of Human Resource Development, Govt. of India in 2014. The Centre activities are initiated by an expert team comprising of scientists and engineers from various disciplines of science and engineering with an expectation to manage the challenging tasks in education, training, research and development programmes in the novel and newly emerging areas of energy research. The Centre has focused more on the challenging tasks in the field of dye-sensitized solar cells, hydrogen production via water splitting, solid state and polymer electrolytes for energy devices, solid-oxide fuel cells, novel electrode materials for supercapacitor, batteries, biological and environmental applications. Moreover, developments of optical materials, new absorber materials for solar cells, dye-sensitized PV, would expand our research scope towards green and clean energy.



About the Symposium

Nanostructured materials have received tremendous interest due to their unique mechanical/electrical properties and overall behavior contributed by the complex synergism of bulk and interfacial properties for efficient and effective sustainable energy conversion and storage. The booming development of an advanced energy materials provides emerging and effective tools in designing the electrochemical energy conversion and storage devices. This symposium would surely produce a forum for the researchers from various disciplines not limited to chemistry alone to discuss their innovative results on sustainable energy conversion and storage. We hope this conference will also advance the knowledge on the development of sustainable energy conversion and storage devices. In addition to the development of new materials that will be helpful in direct social applications, production of new bio materials will be discussed in this conference. Such development will benefit both India's environment and economy.

This symposium is sure to illuminate young minds, illustrate the challenges of disciplines of modern science, especially with those that pertain to the electrochemical energy conversion and storage devices, and to the integrate the technologies and nature.

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Contact Us

Dr.J.Theerthagiri

Scientist-C,

Centre of Excellence for Energy Research,
Sathyabama Institute of Science and
Technology, Chennai – 600 119.

Ph: +91-9626453229

Email: j.theerthagiri@gmail.com

Dr.P.Kuppusami

Senior Scientist,

Centre of Excellence for Energy Research,
Centre for Nanoscience and Nanotechnology
Sathyabama Institute of Science and
Technology, Chennai – 600 119.

Ph: +91-9444425291

Email: pkgicar@gmail.com

CALL FOR CONTRIBUTIONS

Interested researchers working on the above mentioned themes can present their papers (Oral or Poster). Abstract should be sent by e-mail: nssecsm2018@gmail.com. For oral presentations, the participants are requested to bring their presentation material in CD only. Conference Souvenir will be released and will be distributed to the participants. Categorization of oral/poster will be decided by Organizing Committee. A special prize will be awarded for the best oral and poster presentation.

Important dates

Abstract Submission Deadline	10 April 2018
Notification of Acceptance	11 April 2018
Early Bird Registration Deadline	20 April 2018

Registration Fees

Participation type	Early Bird (INR)	Spot (INR)
Research scholars/ Students	500	750
Faculty/ Industry	600	850

MODE OF PAYMENT

Registration fee is accepted through Demand Draft in favour of "Dean (Publications & Conferences), "Sathyabama University", payable at Chennai.

The account details for **online fee transfer**:

Account name : Dean (Publications & Conferences), Sathyabama University

Account number : 891734627

IFSC Code : IDIB000T020

Bank, Branch Address : Indian Bank, Thousand Lights Branch, Chennai-600006.

ACCOMMODATION

Accommodation for research scholars and participants can be arranged in the institution's hostels at free of cost. External accommodation can be arranged on payment basis for interested participants in nearby hotels.

VENUE

International Research Centre, Sathyabama Institute of Science and Technology, Chennai-600119

The symposium will cover the following topics:

- ✓ Nanotechnology and Nanobiotechnology in Energy Applications.
- ✓ Thin Films and Coatings.
- ✓ Electrochemistry and Device Fabrication.
- ✓ Smart Materials for Energy Applications (DSSCs, SOFC, Battery, Supercapacitor and Hydrogen Production).
- ✓ Modified Electrolytes for Electrochemical Device Applications.
- ✓ Nanostructured Electrode Materials for Energy Conversion and Storage Devices.
- ✓ Photocatalysis for Waste Water Treatment.
- ✓ Bioenergy and Biofuels