ISERMAT - 2015

INTERNATIONAL CONFERENCE ON
SUSTAINABLE ENERGY RESOURCES,
MATERIALS AND TECHNOLOGIES

8 - 9 JANUARY, 2015

Organized by
DEPARTMENT OF MECHANICAL ENGINEERING
SSN COLLEGE OF ENGINEERING, CHENNAI
TAMIL NADU, INDIA. Website : www.ssn.edu.in

Co-Sponsors & Technical Sponsors

ABOUT THE INSTITUTION

Sri Sivasubramaniya Nadar College of Engineering (SSNCE) is the outcome of the vision and initiative of Padma Bhushan Dr. Shiv Nadar, Chairman, HCL Technologies, a pioneer in the field of Information Technology. The Institution reflects the ideals of the founder and seeks to achieve excellence as an academic institution and advanced research centre. The institution was established in 1996 on a sprawling complex of 250 acres on the Rajiv Gandhi Salai (OMR) known as “Cyber Corridor” of Chennai. The campus comprises aesthetically designed buildings that are networked by fiber optic cables. The institution offers eight B.E./B.Tech degree programmes in Mechanical Engineering, Civil Engineering, Electrical and Electronics, Electronics and Communication, Computer Science, Information Technology, Chemical and Biomedical Engineering. The institution also offers eleven M.E./M. Tech degree programmes in Energy Engineering, Manufacturing Engineering, Communication Systems, Applied Electronics, Information Technology, Power Electronics & Drives, Computer Science & Engineering, VLSI design, Software Engineering, Medical Electronics, Environmental Science and Technology in addition to MBA and MCA. The ISO 9001:2008 certified institution has been accredited by NAAC with ‘A’ Grade. The institution is one of the top ranked colleges affiliated to Anna University, Chennai. The college has Wi-Fi connectivity, e-learning enabled classrooms and state-of-the-art laboratories and software. The institution through its dedicated management and faculty members is committed to promote research and provide quality education.

ABOUT THE DEPARTMENT

The department of Mechanical Engineering was established in the year 2007 with a mission to educate and train students to become globally competent. The department offers B.E. degree program in Mechanical Engineering and M.E. degree programs in Energy Engineering and Manufacturing Engineering. The department has 32 qualified faculty members, 24 of them having Ph.D. The department is a recognized Research Centre of Anna University. 23 scholars have registered for Ph.D under 10 supervisors. The department has over 90 publications in refereed International journals and 100 publications in International conference proceedings. Also, 4 patents have been filed. The Department strengthened by its motivated faculty members is working on various research projects funded by NRB, DST, AICTE and the SSN Trust. The Department regularly organizes workshops, symposiums, student and staff seminars as part of its academic activities. The Department feels proud of maintaining its record of more than 90% placement in campus recruitments every year. The department is active in various research projects in the areas such as Heat Transfer, Refrigeration, Energy Storage, Solar Thermal Energy, IC Engines, Alternate Fuels, Combustion, Manufacturing Engineering, MEMS, Nanotechnology, Finite Element Analysis, Robotics, Metallurgy, Composite Materials, Friction Stir Welding, etc.
ABOUT THE CONFERENCE

International Conference on Sustainable Energy Resources, Materials and Technologies (ISERMAT 2015) will be held at SSN College of Engineering, Chennai, India during 8 – 9, January 2015. The objective of the conference is to share knowledge and to bring together competencies from the relevant disciplines for finding practical solutions for a sustainable energy future. The conference is intended to emphasize the issue of harnessing alternative energy resources, including renewable, to meet the domestic energy demand and to highlight the latest technological advancements. The conference is committed to bringing together scholars, experts and researchers in one platform to discuss global and regional issues related to the energy and environmental protections for sustainable growth and development. It is proposed to have several parallel sessions with invited keynote lectures by eminent academicians and experts from various fields of Engineering and Technology.

CALL FOR PAPERS

Original contributions based on the results of research and development from various engineering fields such as Mechanical, Electrical, Civil, Chemical Engineering, etc., are solicited for presentation on the topics listed below, but not limited to:

- Alternate Fuels
- Alternate Energy Resources
- Batteries and Fuel Cells
- Bio-Energy Conversion
- CAD/CAM/CIM
- Composite Materials
- Computational Fluid Dynamics
- Electrical Energy Systems
- Electronic Cooling Systems
- Energy Auditing
- Energy Policy & Management
- Energy Efficient Equipment and Systems
- Emission Control Techniques
- Energy Storage Technologies
- Energy Saving Technologies
- Environmental Systems
- Manufacturing Processes
- Nano / Bio / Smart Materials
- Environmental Pollution and its Control
- Fluid Machinery and Engineering
- Fuels and Combustion
- Green Building Materials and Technologies
- HVAC, Air-conditioning and Refrigeration
- Heat Transfer
- Hybrid Energy Systems
- Industrial Robotics
- Modeling and Optimization of Energy Systems
- New Energy Vehicles, Electric Vehicles
- Power Trains
- Renewable Energy System Design / Operation
- Smart Grids
- Solar Photovoltaics
- Sustainable Energy

PAPER SUBMISSION

Prospective authors are requested to submit their abstract to isermat2015@ssn.edu.in. The abstract should contain the title of the paper, author’s name and affiliations, email addresses, postal addresses, contact person and keywords. The length of abstract should not be more than 300 words and should be typed in Times New Roman with 12 font size. After receiving notification of acceptance, authors are requested to submit the full paper, prepared in the prescribed format for not more than 5 pages. Please see the template for manuscript preparation in the website at http://www.isermat.com. Accepted papers will be published in the proceedings of the conference, provided at least one of the authors registers for the conference. Selected papers will be published in Applied Mechanics and Materials Journal (ISSN print : 16609336, www.sciencedirect.com) listed in Annexure -2 Journals, Anna University.

IMPORTANT DATES

- Last date for receipt of abstract: October 08, 2014
- Intimation of acceptance of abstract: October 18, 2014
- Full length paper submission: November 18, 2014
- Camera ready paper submission: December 12, 2014
- Last date for registration: December 19, 2014
- Conference dates: January 08-09, 2015
REGISTRATION

At least one registration per paper is mandatory for presenting the paper in the conference. The registration fee is to be paid through Demand Draft (DD) / online transfer. Please refer conference website for more details about the payment and accommodation. The DD should be drawn in favour of “The Principal, SSN College of Engineering” payable at Chennai. The DD / details of online transfer along with registration form should be sent to The convener - ISERMAT 2015 on or before 19.12.2014. The registration form may be downloaded from the website http://www.isermat.com

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<th>Category</th>
<th>National</th>
<th>International</th>
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<td>Student Authors &amp; Research Scholars</td>
<td>INR 5000</td>
<td>USD 200</td>
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<td>Faculty</td>
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<td>Industry</td>
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<td>USD 300</td>
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<tr>
<td>Students without Journal publications &amp; Participants</td>
<td>INR 2000</td>
<td>USD 125</td>
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Registration fee includes conference proceedings, lunch, high tea, and other registration materials.

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ABOUT THE CITY

Chennai is the capital city of Tamil Nadu, India. Located on the Coromandel Coast off the Bay of Bengal, it is the biggest industrial and commercial centre in South India and a major cultural, economic and educational centre. Chennai is known as the “Detroit of India” for its automobile industry. The city is India’s second largest exporter of software and information technology (IT) enabled services.

Chennai has well developed transport facilities. The city and its suburbs may be traversed using its road and rail networks. The Chennai International Airport serves as the city’s airport for both domestic and international flights.

PLACES OF INTEREST

The tourist destinations in Chennai include ancient temples, monuments, beaches, museums, art centers and much more. The following are some of the tourist places in Chennai:

- Marina Beach
- Kapaleeshwar temple
- St. Thomas mount
- Guindy national park
- Government museum complex
- MGR Dizze world
- Anna Zoological Park
- Mamallapuram

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