

## ABOUT THE CONFERENCE

### SEEC - 2017

The conference, SEEC-2017, will be organized to promote research and outreach programme in India and abroad through scientific deliberations like keynote addresses, oral and poster presentations. The SEEC will bring together engineers, scientists, researchers, students, managers and other professionals in order to address and discuss emerging sustainable energy and environmental issues. It will provide platforms for physicist, mathematicians, chemists, engineers and biologist for critical discussion in key areas of energy and environmental sciences. Environmental sciences research should contribute to understand the major problems in recent days arising due to extensive agriculture, industrial, municipal, transportation, urbanization activities together with climate change in developing countries. It is realized since last one decade that proper utilization of environmental waste is important for the analysis and product formation to provide food, feed, fuel, commercial items and health to increasing human population without impairment of biodiversity and sustainable growth will be discussed.

### International Society for Energy, Environment and Sustainability (ISEES)

The International Society for Energy, Environment and Sustainability was founded at IIT Kanpur in January, 2014 with an aim to spread knowledge in the fields of Energy, Environment, Sustainability and Combustion. The Society aims to spread knowledge in the above mentioned areas among people and make them more aware about the environmental challenges which the world is facing today. The Society is involved in various activities like conducting workshops, seminars, conferences, etc. in the above mentioned domains. The society also recognizes young scientists and engineers for their contributions in this field. It comprises of experts from leading research institutions working in various domains related to energy.

### Center of Innovative and Applied Bioprocessing (CIAB), Mohali

Center of Innovative and Applied Bioprocessing (CIAB) at Mohali (Punjab, India), formerly Bioprocessing Unit, is a national institute under the Department of Biotechnology (Govt. of India). It is a member institute of the Knowledge City Cluster of Institutions comprising of CIAB, IISER, INST, ISB, PBTI, BTP, NABI.

### Important Dates

Oct 15, 2016 First announcement  
 Oct 21, 2016 Submission of extended abstract opens  
 Jan 15, 2017 Last date for extended abstract submission  
 Jan 1, 2017 Registration begins  
 Jan 25, 2017 Notification of paper acceptance  
 Jan 31, 2017 Last date for early bird registration  
 Feb 26-28, 2017 Conference dates

### Registration

Please visit, conference website for more information.

|                                      | Before<br>Jan 31, 2017 | After<br>Jan 31, 2017 |
|--------------------------------------|------------------------|-----------------------|
| <b>Academicians/Researchers</b>      |                        |                       |
| ISEES Members (Indian/Overseas)      | Rs. 4000/ \$ 200       | Rs. 5000/ \$ 250      |
| Non-ISEES Members (Indian/Overseas)  | Rs. 5000/ \$250        | Rs. 6000/ \$300       |
| <b>Students</b>                      |                        |                       |
| ISEES Members (Indian/Overseas)      | Rs. 3000/ \$150        | Rs. 4000/ \$ 200      |
| Non-ISEES Students (Indian/Overseas) | Rs. 4000/ \$ 200       | Rs. 5000/ \$ 250      |

### Contact

Prof. Ashok Pandey  
 General Chair (SEEC - 2017)  
 C-127, II Floor, Phase 8, Industrial Area,  
 SAS Nagar Mohali-160 071, Punjab, India  
 Tel: +91-172-4990214; Fax: +91-172-4990204  
 Email id: icseec2017@gmail.com  
 Conference website: www.isees.in/seec

### Organizing Secretaries

Dr. Santanu De, IIT Kanpur (sde@iitk.ac.in)  
 Dr. Atul Dhar, IIT Mandi  
 Dr. Dhananjay Kumar Srivastava, IIT Kharagpur

## Conference Announcement

# FIRST INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY AND ENVIRONMENTAL CHALLENGES (SEEC - 2017)

FEB 26 – 28, 2017

VENUE: CENTER OF INNOVATIVE AND  
 APPLIED BIOPROCESSING  
 MOHALI, INDIA

UNDER THE AUSPICES OF  
 INTERNATIONAL SOCIETY FOR ENERGY,  
 ENVIRONMENT AND SUSTAINABILITY



ORGANIZED BY:  
 CENTER OF INNOVATIVE AND APPLIED  
 BIOPROCESSING  
 MOHALI, INDIA

## Paper Submission

A sample MS-Word, PDF and LaTeX files of extended is available at the conference website. The maximum limit for the extended abstract is 4 pages. We are not asking for any copyright. The Online submission can be done and status of the paper may be checked through the following link: <https://easychair.org/conferences/?conf=secc2017>. Selected articles in extended form will be considered for publication in journal entitled "Journal of Energy and Environmental Sustainability", an official publication of the International Society for Energy, Environment and Sustainability.

## Technical Programmes

**Oral Presentation (Plenary lectures, Invited and General Talks) and Poster session**

**Mini symposia —**

- \* CFD of Reactive Flows
- \* Clean Coal Technology
- \* Hydrogen - Fuel for Future: constraints and opportunities
- \* Methanol/DME for Cleaning Urban Air Quality
- \* Waste-to-Energy

## Theme Areas

- A. **Biofuels:** Biofuels and Biorefineries (Biodiesel, Bioethanol), Waste to Biofuels, Algae, Anaerobic Digestion, BTL, Biorefineries, Sustainability Assessment
- B. **Combustion and Reactive Flows:** Combustion Diagnostics, Laminar and Turbulent Combustion, Numerical Modelling of Combustion, Sprays & Droplet Combustion, Combustion Applications in Gas Turbines, Internal Combustion Engines, Rocket Propulsion
- C. **Thermal and Nuclear Energy Systems:** Clean Coal, Fluidized-bed, Combined Cycles, Advanced Cycles, Flexible Operation, Cogeneration, Waste-to-Energy, Thermal Energy Storage, Nuclear Plants
- D. **Alternate and Renewable Energy Systems:** Biomass/Biofuels/Biogas-based Technologies, Thermo-chemical Processes: Pyrolysis and Gasification, Solar Thermal and Photovoltaic Technologies, Renewable energy, Hydrogen Production, Hydrogen Technologies (Stationary, Mobile, Small applications, Electrolysis, Reforming, Nuclear Hydrogen)
- E. **Advanced topics in Sustainable Energy:** Carbon Capture and Storage/Sequestration, Oxy-fuel Combustion, Micro- and Nano-technologies for Sustainable Development of Energy Systems,

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Prof Ashok Pandey, Chairman ISEES, CIAB, Mohali

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Dr Rajender Singh Sangwan, Chief Executive Officer, CIAB, Mohali  
 Prof Avinash K. Agarwal, Secretary, ISEES, IIT Kanpur

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 Dr Atul Dhar, IIT Mandi  
 Dr Dhananjay Kumar Srivastava, IIT Kharagpur

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