

CALL FOR PAPERS

Technical papers on the above themes and related topics are invited for presentation in the different sessions of the seminar. The authors should send two copies of extended abstract in IEEE template (not exceeding two A-4 size pages typed in 12pt., 'Times New Roman' font with double spacing) of their original works latest by 25th January 2018. Alternatively, papers can also be mailed on gujaratsc@ieindia.org

PARTICIPATION:

Experts from Govt Organizations/Undertakings, Educational/Research Institutions, Industries, Consultants and students are invited to participate in the deliberations of the Seminar. This will enable them to have a complete brainstorming on the entire subject.

Registration Fees:

IEI Members/ Students Chapter members	Rs. Nil	Research Scholars	Rs. 300/-
Non IEI Members	Rs. 700/-	Students	Rs. 200/-

Sponsorship:

Platinum Sponsorship of Rs. 1,00,000/- will be eligible with 20 free delegates. Diamond, Gold & Silver sponsorship of Rs. 75,000/-, 50,000/- & 25,000/- respectively shall be eligible for 15, 10 & 5 free delegates. Besides, some additional benefits are also available. Details for various categories of sponsorship would be available on request. Industry, Govt./ Semi-Govt Organizations are requested to sponsor various activities of the seminar.

IMPORTANT DATE

Last date for receipt of Full Length Paper: 5th February, 2018

PAYMENTS:

All payments are to be made through crossed Demand Draft / At par Cheque, drawn in favour of "The Institution of Engineers (India), Gujarat State Centre". Online Payments are accepted on www.meraevents.com also.

Accommodation:

There are several hotels available for accommodation. Participants are requested to book on their own.

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Information Brochure

The Institution of Engineers (India)

*"98 Years of Relentless Journey towards Engineering
Advancement for Nation Building"*

ALL INDIA SEMINAR

on

**Recent Trends in
Renewable Energy Application & Research
February 16-17, 2018**

Organised by:

**The Institution of Engineers (India)
Gujarat State Centre**



Under the aegis of

Electrical Engineering Division, IEI



In association with

**Students Chapter (Electrical Engineering)
Vishwakarma Govt. Engineering College,
Chandkheda, Ahmedabad**



Venue: Ahmedabad

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 engineering disciplines and gives engineers a global platform to share professional interest. IEI has membership strength of more than 0.8 million. Established in 1920, with headquarters at Kolkata, IEI has served the engineering fraternity for over nine decades. In this period of time it has been inextricably linked with the history of modern-day engineering.

In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honor. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating from 121 Centers located across the country. The Institution has established R&D Centers at various locations in the country and also provides grant-in-aid to its members to conduct research and development on engineering subjects.

IEI conducts Section A & B Examinations in different Engineering disciplines, the successful completion of which is recognized as equivalent to Degree in appropriate field of Engineering of recognized Universities of India by the Ministry of Human Resources Development, Government of India. Every year as many as 90,000 candidates appear for these exams. For details, please see: www.ieindia.org.

The Gujarat State Centre has been one of the active Centers of The Institution of Engineers (India) which is engaged successfully translating the objectives and ideals of IEI into practice.

About Vishwakarma Government Engineering College

Vishwakarma Government Engineering College, Chandkheda, Ahmedabad was established in August 1994, with an objective of imparting higher education in various fields of engineering and technology. This institute is recognized by AICTE, New Delhi & Institute of Engineers (India). The college is administrated by Directorate of Technical Education, Gujarat State, Gandhinagar and is affiliated with Gujarat Technological University. VGEC shifted to its own campus at Chandkheda in the year 2004.

OBJECTIVE

Solar & wind are drivers of the renewable energy market, representing 56 & 38% respectively of global renewable investment in 2015. Solar power (photovoltaic & thermal) is the fastest growing renewable energy technology, with 2015 investment increasing by 12% over the previous year. Wind-related investment grew at a more modest rate, registering 4% year-on-year growth. These investments are yielding large increases in renewable energy capacity worldwide. Installed renewable capacity approached 2 million MW in 2015, nearly double the level of 2006. Hydropower represents the largest share (61.3%) of renewable energy capacity, well surpassing the portions of wind (21.9%), solar (11.5%) & bioenergy (5.3%).

The seminar is therefore very much essential for dissemination of knowledge and bringing awareness among engineers. The seminar is going to be attended by the practicing engineers, designers, experts & students. There will be an exhibition for demonstration of products from industry and R&D institutions.

Program Structure

1. Overview of Developments in Renewable Energy - Current Trends & Future Prospects

- Solar PV / Nano / Storage Materials
- Wind Energy, Ocean Thermal Energy Conversion, Tidal power, Geo Thermal, Bio energy
- Energy Conservation and Management
- Computation Methods for Energy Modeling
- Small Hydro Power
- Hydrogen and Fuel Cells
- Leveraging Renewable Energy for Electricity Needs of the Growing World Population
- Computational Design and Realization of Functional Renewable Energy Materials

2. Renewable Energy in different sectors

- Renewable Energy(RE) in Agriculture
- RE Systems (RES) in Smart Cities
- Power Devices & Driving Circuits for RES driving equipment / vehicles
- RE sources for Electrical Vehicles and Components
- Energy Savings for Vehicular Technology, Power Electronics, Electric Machinery & Control
- RE Research & Applications for Industries

3. Renewable Energy System

- Hybrid Renewable Energy system (RES)
- New Trends and Technologies for RES

- Energy Transformation from RES to Grid
- Control Techniques for RES
- Grid Interactive Systems Used in Hybrid RES
- Performance Analysis of RES
- Decision Support Systems for RES
- Smart grids and Renewable Energy sources

4. Reliability & Maintenance in RE sources

5. Some Important aspects related to RE

- Safety and Security of RE sources
- Policies, Strategies for RES
- Public Awareness & Education for RE and Systems
- Future Challenges and Directions for RE sources

DELEGATE REGISTRATION FORM

Name:

Organization/Institution:

Designation:

Address:

Mobile **Telephone:**

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Registration category:

- | | |
|--|--|
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* Tick the boxes as per your category / Strike out whichever is not applicable

I/We enclose a Cheque /Demand Draft for Rs.....in favor of "The Institution of Engineers (India), Gujarat State Centre" Payable at Ahmedabad. & Drawn on (Bank Particulars).....Cheque/Demand Draft No..... Dated.....