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- Co-Chairman:** Er. Sajjan Singh Yadav, Chairman, Mechanical Engineering Division Board, IEI
- Convener :** Dr. Bimal Sarangi, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Jt. Convener :** Er. Umakant Sahoo, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Members :**
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Dr. Raghupatruni Bhima Rao, Chairman, CHDB, IEI  
Er. Sangram Keshari Pattnayak, Honorary Secretary, Odisha State Centre, IEI

### CONTACT PERSON

**Er. Sangram Keshari Pattnayak, FIE**

Honorary Secretary

**The Institution of Engineers (India)**

**Odisha State Centre**

Engineers Bhawan, Institution of Engineers Square,  
Sachivalaya Marg, Unit-4, Bhubaneswar 751001  
E-mail: odishasc@ieindia.org  
Phone (Mobile): 9438407201

## Organizing Committee

- Chairman:** Prof (Dr) Sudhansu Sekhar Dash, Chairman, Odisha State Centre, IEI
- Organizing Secretary :** Er. Sangram Keshari Pattnayak, Honorary Secretary, Odisha State Centre, IEI
- Convener :** Dr. Bimal Sarangi, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Jt. Convener :** Er. Umakant Sahoo, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Members :**
- Dr. Malaya Kumar Pradhan, GM, Industrial disaster & CBRN, OSDMA, Govt. of Odisha  
Er. Ashok Kumar Choudhury, Consultant, Renewable Energy, TATA Power.  
Prof. V. Pandu Ranga, School of Mechanical Science, IIT Bhubaneswar  
Dr. Kali Sanjay, HOD, Hydro & Electro Metallurgy, CSIR-IMMT, Bhubaneswar  
Dr. M .K Roul, Principal, GITA, Bhubaneswar  
Dr. Saroj Kumar Sarangi, Principal, GEC, Keonjhar  
Dr. Sarat Kumar Mishra, Principal, BCET, Balasore  
Dr. Sanat Kumar Pattnaik, Professor, AIET, Bhubaneswar  
Dr. Jiban K Jena, Principal, GIET, Baniatangi, Bhubaneswar  
Dr. Debabrat Samantaray, Professor, AIET, Bhubaneswar  
Er. Surya Prakash, Spatech Engineering, Pvt Ltd Bhubaneswar  
Dr. B. P Samal, Principal, Mahavir Engineering College, Bhubaneswar  
Dr R. K Behera, Professor, KEC, Bhubaneswar  
Er. Binit Sarangi, Asst. Director, F & B, Govt. of Odisha  
Er. Satyabadi Mishra, Chairman, Angul Local Centre, IEI  
Er. Bibhudatta Panda, Chairman, Brahmapur Local Centre, IEI  
Er. Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI

## Technical Committee

- Chairman:** Prof.(Dr) Akshaya Kumar Rout, Professor, KIIT (DU), BBSR
- Convener :** Dr. Bimal Sarangi, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Jt. Convener :** Er. Umakant Sahoo, Committee Member, Mechanical Engineering Division, Odisha State Centre, IEI
- Members :**
- Prof. Ranjan Kumar Swain, former Principal, P MEC, Bramhapur  
Dr. Ranjan Kishor Mallick, Professor, AIET, Bhubaneswar  
Dr. Sudhansu Shekhar Sahoo, Associate Professor, Dept. of Mech. Engg., OUTR, Bhubaneswar  
Dr. Saroj Kumar Acharya, Professor, Mechanical Engg., ITER, Bhubaneswar.  
Dr. Rama Chandra Dash, Professor & Head, Farm Machinery Dept, CAET, OUAT, Bhubaneswar  
Dr. S K Biswal, CEO & MD, IPMRC, Bhubaneswar  
Prof. Sushanta Tripathy, Professor, SME-KIIT Deemed to be University  
Prof. Trupti Ranjan Mahapatra, Associate Professor, Production Engineering, VSSUT, Burla

## REGISTRATION FEE

Corporate Member of IEI and Faculties of AIET	: Rs. 1,500.00
Member of Supporting Org	: Rs. 2,000.00
Sponsored Delegates / Non Member	: Rs. 2,500.00
Research Scholar	: Rs. 1,500.00
Students	: Rs. 1,000.00

Registration fee includes seminar Kit, Tea & Lunch during Seminar and a copy of the Souvenir/Technical Proceeding.

Account Name: THE INSTITUTION OF ENGINEERS (INDIA), ODISHA STATE CENTRE

Bank Name: UNION BANK OF INDIA, A/C No: 089510011000065

IFSC Code: UBIN0808954, Name of the Branch: Madhusudan Nagar Branch

Address of the Bank: 269, Sachivalaya Marg, Bhubaneswar 751001

By DD drawn in the favor of The Institution of Engineers (India), Odisha State Centre,

Payable at Bhubaneswar.

## First Information Brochure

# The Institution of Engineers (India)

A Century of Service to the Nation

**ALL INDIA SEMINAR**

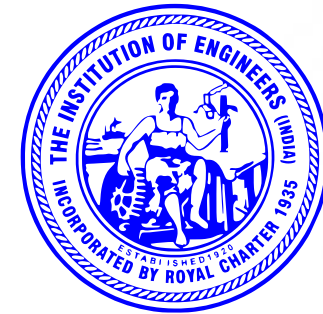
**ON**

**ALTERNATIVE ENERGY SYSTEMS**

**27<sup>th</sup>-28<sup>th</sup> July, 2024**

**Bhubaneswar**

**Organised by**



## The Institution of Engineers (India)

**Odisha State Centre**

**Under the Aegis of**

**Mechanical Engineering Division Board (MCDB), IEI**

**In Association with**



**Department of Mechanical Engineering,  
Aryan Institute of Engineering & Technology, Bhubaneswar, Odisha**

## The Institution of Engineers (India)

**Odisha State Centre**

Engineers Bhawan, Institution of Engineers Square,  
Sachivalaya Marg, Unit-4, Bhubaneswar 751001  
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## 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 for sharing professional interest. IEI has membership strength of above 0.8 million. Established in 1920, with its headquarter Kolkata, IEI has served the engineering fraternity close to a century. During this period of time, IEI 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 which has been accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. It provides a vast array of technical, professional and supporting services to the Government, Industries, Academia and the Engineering fraternity, operating through its 124 Centres located across the country and 6 overseas chapters. Besides, IEI has bilateral agreements with about 31 international bodies and membership of another 8 international bodies of the developed nations across the globe.

Being recognized as a Scientific and Industrial Research Organisation (SIRO) by the Department of Scientific and Industrial Research, Ministry of Science and Technology, Government of India, IEI promotes the cause of research and development by providing Grant-in-Aid support to undergraduate, post graduate students and PhD Research Scholars of Engineering Institutions and Universities.

IEI holds the International Professional Engineers (Int PE) Register for India under the global International Professional Engineers Alliance (Int PEA). The institution also awards the Professional Engineers (PE) Certification. IEI in collaboration with Springer regularly publishes peer-reviewed international journal in five series, namely, Series A, Series B, Series C, Series D and Series E covering fifteen engineering disciplines.

## About Odisha State Centre, The Institution of Engineers (India):

Odisha State Centre, IEI was established at Burla on 22nd February, 1959 with 86 Corporate Members and 245 non-corporate members. The then Chief Minister of Odisha, Dr. Harekrushna Mahatab formally inaugurated its first session at Burla on 26th July, 1959. Rai Bahadur, M S Thirumale Iyengar, Er Sadananda Padhi and Prof Bhubaneswar Behera were the founder Chairman, Honorary Secretary & Honorary Joint Secretary of the State Centre respectively. Since that memorable day of 22nd February, 1959, there is no looking back. State Government of Odisha was pleased to allot 1.46 acres of land to The Institution of Engineers (India), Odisha Centre on 20th August, 1966 where the foundation stone of the present building was laid by Rai Bahadur, Dr A N Khosla, the then Governor of Odisha and Past-President of IEI (1948-1950) on 24th February, 1963. The building was completed and the then Governor of Odisha inaugurated on 15th February, 1965. From that day, all the activities of the OSC, IEI with its four Local Centers at Angul, Berhampur, Rourkela and Sunabeda are discharged to enhance the skill and knowledge with an overall membership of over 10,000.

## About Aryan Institute of Engineering and Technology:

Aryan Institute of Engineering and Technology, Bhubaneswar, Odisha is self-financed Technical Institution established in the year 2009 approved by AICTE, New Delhi, affiliated to BPUT and SCTE&VT, Govt. of Odisha and accredited by NAAC 'A' grade. The Institute is Imparting U.G., P.G. in different branches of Engineering and Management. Aryan Institute of Engineering and Technology (AIET), one of the Professional Leading College in Bhubaneswar. AIET has made significant progress in the area of

high quality Technical education and research. AIET ranked 2nd among 'Best Professional Colleges in Odisha' and 39th amongst 'Top Self-financed Engineering colleges in India' in a survey conducted in the year 2020. The Alumni of AIET are well placed in various Corporate/Industries both in India and abroad. The Department of Mechanical Engineering is equipped with state of art laboratories and experienced faculties from IIT, NIT, State university etc.. The alumni of AIET are placed in MNCs /PSU and Govt of India/ Govt of Odisha and many reputed software companies /organizations etc. The Entrepreneurial support provided them to start their own venture or Start-ups by the strong Training and incubation support.

## About the Theme:

In the face of escalating environmental concerns and the need for sustainable development, alternative energy systems have emerged as pivotal solutions to address the challenges posed by conventional energy sources. This exploration delves into diverse alternative energy systems, shedding light on their potential to pave the way for a sustainable future. As the global community grapples with the challenges of climate change and the imperative to transition away from fossil fuels, the exploration and implementation of alternative energy sources have gained prominence. This overview covers key alternative energy systems, including solar power, wind energy, hydropower, biomass energy, geothermal energy, and tidal/wave energy, Atomic energy etc. Each system's characteristics, advantages, and challenges are highlighted, emphasizing their contribution to reducing greenhouse gas emissions, enhancing energy security, and promoting environmental sustainability. The transition to alternative energy systems is imperative for fostering a sustainable future. Embracing these alternative energy sources not only mitigates environmental degradation but also contributes to a more sustainable and equitable global energy landscape.

## Sub Themes:

- ★ Different types solar Energy, Wind Energy, Hydropower, Geo thermal Energy. Biomass Energy, Nuclear Energy, Tidal and wave energy, harnessing systems.
- ★ Advancements in Solar Panel Efficiency, Next-Generation Wind Turbines, Energy Storage Solutions, Smart Grid Storage, Reduction of Greenhouse Gases Technology, Carbon Capture and Ecosystem Preservation, Resource Creation, Energy Independence Depletion.
- ★ Cost-Effectiveness, Job Investment and Financing, Government Incentives, International Agreements Regulatory Challenges.
- ★ Public Perception and Acceptance, Community Impact, Educational Initiatives. Hybrid Energy Systems, Infrastructure Development, Distributed Generation, Emerging Technologies: Exploring future technologies like hydrogen fuel cells, advanced nuclear reactors, and others.
- ★ Research and Development: Trends in research efforts aimed at improving efficiency and reducing costs of renewable energy. Scalability: Assessing the potential for scaling up alternative energy solutions to meet global energy demands. But not limited
- ★ Investment opportunities for alternative energy in Odisha.
- ★ Energy efficient Agriculture & Farm equipment / machineries.
- ★ Energy efficient equipment / retrofits for Industrial Processes.

## Call for Papers

All interested participants are requested to contribute technical/ research papers and case studies detailing concept, innovation, idea or practical experiences for oral presentation. Each paper should begin with a synopsis of about 200 words and preferably within 3000 words excluding figures, tables and references. Paper can be sent to ( **Email id: odishasc@ieindia.org**). **Awards for best paper will be presented in each Technical session and the volume will be printed with ISBN.**

## Closing Dates for Papers

Submission of Abstract	:	15 <sup>th</sup> June, 2024
Communication of Acceptance of Abstract	:	20 <sup>th</sup> June, 2024
Submission of Full-Length Paper	:	10 <sup>th</sup> July, 2024

For Guidelines for Submission of Papers scan the QR Code

[https://www.ieindia.org/webui/IEI-Activities.aspx#Call\\_Papers](https://www.ieindia.org/webui/IEI-Activities.aspx#Call_Papers)



SCAN ME

## TECHNICAL VOLUME & ADVERTISEMENT TARIFF:

A technical volume will be brought out on the occasion of the All India Seminar for distribution to the delegates as well as to various related organizations across the country and abroad. It has been decided to accept a few selected advertisements in Technical Volume. (Book Size: Demy ¼)

Back Cover Outside (Colour)	: Rs. 50,000.00
Back Cover inside (Colour)	: Rs. 40,000.00
Front Cover inside (Colour)	: Rs. 40,000.00
Inside Full Page Colour:	: Rs. 30,000.00
Inside Full Page B/W:	: Rs. 20,000.00

\*Extra 5% GST will be applicable

## SPONSORSHIP

- Platinum: Rs.1, 50,000/- up to 15 delegates free plus one full page colour advertisement.
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- Extra 18 % GST will be applicable

# The Institution of Engineers (India)

## Odisha State Centre

Engineers Bhawan, Institution of Engineers Square,  
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Phone (Mobile): 9438407201

## Registration Form

*All India Seminar  
on  
Alternative Energy Systems  
27<sup>th</sup>-28<sup>th</sup> July, 2024*

Name: (Block Letters) \_\_\_\_\_

Organization/Institution: \_\_\_\_\_

Designation: \_\_\_\_\_

Branch : \_\_\_\_\_

Mobile : \_\_\_\_\_ Email: \_\_\_\_\_

I/We enclose a Cash /NEFT details for Rs. \_\_\_\_\_ Transaction ID No \_\_\_\_\_

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Signature