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Contact us

Dr. Ganesh Chandra Dhal: +91-9438122573
Dr. Sanghamitra Pradhan: +91-9556720962
Dr. Brundabana Naik: +91-7978326026
Dr. Prasanta Kumar Sahoo: +91-8249032759
Dr. Binita Nanda: +91-9090907875

General Correspondence

Dr. Naresh Kumar Sahoo
Convener, AEESD-2022
Faculty of Engineering and Technology (ITER)
Siksha 'O' Anusandhan (Deemed to be University)
Bhubaneswar-751030, Odisha, India
Mob: +91-8249344716; Email: nareshsahoo@soa.ac.in
Dr. Ganesh Chandra Dhal
NIT, Meghalaya, Email: ganeshdhal@nitm.ac.in



**International Conference
on
"Advances in Energy and
Environment for Sustainable Development"**

AEESD-2022

January 7-8, 2022

In Virtual Platform

**Organized by
Department of Chemistry
Siksha 'O' Anusandhan
(Deemed to be University)**

Bhubaneswar- 751030, Odisha, India

**In collaboration with
Department of Civil Engineering
National Institute of Technology
Meghalaya, India**

Conference Website
www.soa.ac.in

About the Workshop

International Conference on Advances in Energy and Environment for Sustainable Development (AEESD-2022) will be held in S'O'A (Deemed to be University) Bhubaneswar, India on 7-8th January 2022, In collaboration with Department of Civil Engineering, NIT, Meghalaya, India to share the ideas on technological innovation in Energy, and Environment for long-term solutions that ensures sustainability. Energy and Environment are closely related issues in the whole world. The rapid growth of the technology and industrial boom causes indiscriminate use of fossil fuels and thus promote enormous environmental damage i.e. excessive production of greenhouse gases consequently pollute soil, air and water and cause serious human health hazards. Further, international reserves of crude oil, coal, natural gas are declining; therefore, it is highly indispensable to develop novel sources of renewable energy and specially fuels from sustainable sources. Effective treatment of industrial wastewater, contaminated soil, air and its reuse are critical problems in a developing country like India. Scientists around the globe are engaged in intensive research to develop a suitable long lasting, stable and sustainable technology. Nearly five decades of intense research efforts have been expanded in this exercise by many researchers, but still the solution appears to be elusive. The conference will provide a unique platform to eminent professionals, scientists, academicians and entrepreneurs from worldwide to:

- Exchange ideas related to latest technological innovations
- Disseminate the high-quality research outcomes
- Foster the culture of innovative research among academia and industries
- Discuss the future global development on energy security and environmental safety.

Scope of the Conference

The objective of this conference is to bring together experts from various academic institutions, industries and research organizations across the country to share knowledge, expertise and experience in the emerging fields related to energy and environment to achieve sustainable development.

Major themes of AEESD-2022 but not limited to:

| | |
|--|---|
| Hydrogen Fuel Cell | Water Quality, Water Pollution and Treatment Techniques |
| Solar Energy, Photovoltaic Technology | Solid and Hazardous Waste Management |
| Biofuels / Biofuels Cells | E-waste and Plastic Waste Management |
| Energy Storage Materials | Air Pollution and Air Quality Control |
| Energy generation and conversion | Ecosystem Assessment and Restoration |
| Nuclear energy | Toxicology Assessment of Health and Environment |
| Renewable energy | Environmental Remote Sensing /GIS Applications |
| Conversion of Waste to Energy | Innovative Construction Methods, Green building |
| Nano-materials and Nano-technologies | Water Resources Planning and Management |
| Separation and purification technology | Sensor technology |
| Polymer and Synthetic Chemistry | Cleaner production |

Presentation

The conference will include: Invited Talks, Oral presentation and Poster Presentation.



About Siksha O Anusandhan Deemed to University

Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar declared u/s 3 of UGC Act, 1956 is a leading University in India offering professional programmes in the disciplines of Engineering, Medicine, Dental Science, Nursing, Pharmaceutical Science, Biotechnology, Management, Law, Hotel Management and Agricultural Sciences. Based on its all-round performance, this University has been awarded ranks among top 20 in the country in University category by National Institutional Ranking Framework (NIRF) of Ministry of Human Resources & development (MHRD), Govt of INDIA consistently for last three years, surpassing many State & Central University/IIT's/ Institute of high learning. It has also been ranked as the 33rd best National Institution, the 20th Best National University and the best Institution in Odisha by the MHRD through its NIRF Rankings in 2017. 19th Best Medical College in the country. Approved by UGC & AICTE, it has been re-accredited by the NAAC with A-Grade and has obtained the International Accreditation by ABET, USA and certification by IAO, URS, UK.

The department of Chemistry has outshined in numerous scopes and currently hosts 19 fulltime faculty members. The faculty members have outclassed and are instrumental in setting up different research laboratories in the department namely Bio-nano research cell for energy and environment, Solution chemistry laboratory, Material chemistry laboratory, Organic chemistry laboratory, Environmental chemistry laboratory. The department is ranked 31 amongst all the institutions of India through a survey conducted by Nature index 2021.



About NIT Meghalaya

The National Institute of Technology (NIT) Meghalaya is one among the thirty NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Human Resource Development, Government of India. The nearest railway station is Guwahati.

About the Department of Civil Engineering

NIT Meghalaya, Department of Civil Engineering began its session from July 2012. The Department offers B. Tech, M. Tech in structural Engineering and PhD programs with different specializations. The Department is well equipped with laboratories; computational facilities with latest numerical modeling software where our students are exposed to recent technologies development. The Department has well experienced and dedicated faculty members spanning all specializations.

Travel Information

The SOA university is situated in Bhubaneswar, the capital city of Odisha. It is well connected by air, rail and bus. It is hardly 5 km away from the airport, 8 km from the railway station and 3 km from the bus stand.

Important Dates

Last date of Abstract Submission **30.12.2021** Intimation of Acceptance **02.01.2022** Last date of Submission of Full Paper **05.01.2022** Last date of Registration **01.1.2022**

Registration Fee

Details of Registration Fee submission to be announced soon.

| | |
|---|------------------|
| Student and Research Scholars: | Rs. 100/- |
| Delegate from Academia: | Rs. 250/- |
| Delegate from Industry / Service Sectors: | Rs.1000/- |

Abstract Submission

Interested candidates may pay the registration fee through online / NEFT to the below mentioned bank account:

Account Holder : SIKSHA 'O' ANUSANDHAN
Account Number : 6762002100000239
IFSC Code : PUNB0676200
Branch : POKHARIPUT
Bank : Punjab National Bank (Odisha)

The details regarding the preparation of one page abstract can be found at the end of this announcement. Authors are requested to submit their abstract(s) through email attachment (MS word) to: aeesd2022@soa.ac.in. Acceptance of the abstracts will be notified through e-mail. There will be both oral and poster session. Scanned copy of duly filled in Registration form should be sent only after acceptance of the abstract. *Papers presented in the conference will be published in Environmental Quality Management (Wiley), Materials Today: Proceedings - Journals. (Elsevier) and other Scopus-indexed international, Journal. (to be announced very soon)* e-certificate will be provided to all the participants

Registration link:

<https://forms.gle/nprYAkbdzDbCFpow7>

Plagiarism policy

To avoid plagiarism, authors are requested to submit their original and unpublished research work, which is not under consideration for publication elsewhere. *Manuscripts found to be plagiarized during any stage of review will be rejected.*

REGISTRATION FORM *

**International Conference on
"Advances in Energy and
Environment for Sustainable Development"
AEESD-2022
January 7-8, 2022
In Virtual Platform**

Organized by
Department of Chemistry
Siksha 'O' Anusandhan
(Deemed to be University)
Bhubaneswar- 751030, Odisha, India,

In collaboration with
Department of Civil Engineering
National Institute of Technology
Meghalaya, India

Name (BlockLetters):
Gender (M/F):..... Designation:.....
Affiliation/Organization:.....
Address:.....
.....
Mobile:.....
Email:.....
Title of Paper:.....
.....
Mode of presentation: Invited/Oral/Poster/:.....
.....

Date:

Signature

** Photocopies of this form may also be used.
Registration form duly filled in should reach
by 1st January 2022.*



Instruction to Authors

One page abstract that include all Figures, Tables, References etc. The paper size should be A4 (210 mm x 297 mm) with 25 mm margin on all sides. The Font should be Times New Roman with size as indicated in different parts. Except specifically stated, the text should be justified (not right, left, or centered).

Title of the paper (bold, Size 14)

Full names of authors (e.g. Manoj Patil,
Madhu Singh, ...) (Size 12)

Affiliation (italicized, Size 10).

E.mail : dfg@klmn.uy.in (Size 10).

(all of the above must be Centered)

Abstract (bold, size 12, Centered)

1 Space The abstract text should be in font size 10. The line spacing should be 1.5 space in single paragraph. The text should be justified. Figures and tables should be suitably reduced in size for their appropriate placement in the text, where they are referred to. Each must be numbered (bold, e.g. Fig.1) and must have an appropriate caption below it. Caption should be italicized. References, if any, should be inserted in the text in brackets as (e.g., [1]), numbered according to their sequence of appearance in the text. 2 Spaces

REFERENCES (Capital, bold, Size 10, Align left):

The style of reference should be:

[1]. X. You, Y. Zou and K. Xu, J. Magn. Mater.
25 (2018) 222

