INTERNATIONAL CONFERENCE

The 3nd International Conference on Material, Energy and Environment for Sustainable Development (ICMEESD-2025)

Conference Aims and Objectives:

The Conference is association devoted to bring together various intellectual high-quality events for presentation within the conference program. It will provide an extraordinary value for students, scholars, academics, researchers and industry persons.

Conference Date: 29th MARCH 2025

-: Venue:-

A/p.- Korti, Tal.- Pandharpur, Dist.– Solapur, Pin- 413 304

Conference Place : AC Seminar Hall, SKNSCOE, Korti, Pandharpur

CHIEF PATRONS

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SKN Sinhgad College of Engineering, Pandharpur

Re-accredited by NAAC with "A+" Grade and NBA accredited

Korti, Pandharpur Dist. - Solapur, Pin -413304, MH, INDIA

University of Tarapaca

Arica, Chile

asagade@academicos.uta.cl

Global Foundation

gfoundation892021@gmail.com

Contact: +91 8888454089

www.icmeesd.sknscoe.ac.in

The SKN Sinhgad College of Engineering, Korti (SKNSCOE) is a well-known institution located on a magnificent 20-acre campus that was established under the visionary leadership of Hon'ble Prof. M. N. Navale. Under the auspices of Punyashlok Ahilyadevi Holkar Solapur University, Solapur, the Institute offers five B. Tech., four M. Tech., and three Ph. D. degree programmes in Engineering and Technology. The institute has made significant strides in the fields of engineering education and science since its inception. As a result, the college is accredited by NAAC with a 'A+' rating. Through a well-defined teaching-learning process and skill-based activities, the institute ensures students' overall development. Via value-based education and on-campus programmes, students are afforded gainly exposure to experiential learning. Under the leadership of Dr. Kailash J . Karande, Principal, SKNSCOE's faculty members are committed to preparing students as tomorrow's leaders capable of meeting the demands of an ever-changing world. Each department's labs are equipped with cutting-edge technology and all necessary hardware and software. The library is completely equipped with all required reference books, journals, and periodicals.

The University of Tarapacá is a public university situated in the port city of Arica in northern Chile. It is member of the Chilean Traditional Universities. University of Tarapacá (UTA) offers courses and programs leading to officially recognized higher education degrees such as pre-bachelor's degrees (i.e. certificates, diplomas, associate or foundation), bachelor's degrees, master's degrees and doctorate degrees in several areas of study.

Global Foundation is to provide latest advancement of knowledge in theory and practice of all area of research among scholars / researchers / academician/ scientists from all around the world those are interested in recent issues in collaboration with international research community.

Please join the world's foremost gathering of research scientists, educators, and policymakers, to be held in Pandharpur,on 29th March 2025.

Finally, on behalf of the Organizing Committee,I would like to invite all the Scientific Community to participate in the

International Conference

Conference Convener
Dr. Atul S. Aradhye
Dean (Incubation)
SKNSCOE, Pandharpur

Conference Co-Convener
Prof. Ramesh S. Yevale
Assistant Professor,
SKNSCOE, Pandharpur

Conference Secretary
Dr. Sampat G . Deshmukh
Dean (Publication)
SKSNCOE, Pandharpur

Dr. Sham S. Kulkarni
HOD (Mechanical),
SKNCOE, Pandharpur

Conference Chairman
Dr. Swanand G. Kulkarni Vice Principal,
SKNSCOE, Pandharpur

Dr. Atul A. Sagade
Professor, Universityof Tarapaca, Arica, Chile

Conference Director
Dr. Kailash J . Karande
Principal,
SKNSCOE, Pandharpur

Dr. Edgar Estupinan
Professor,
University of Tarapaca,Arica, Chile

Submit Your Research Paper! • Submit by email : icmeesd@sknscoe.ac.in

Important Dates:

Particulars	Date
Abstract or Full Paper Submission	March 15, 2025
Notification of Acceptance	March 17, 2025
Final/Revised Paper Submission	March 19,2025
Registration Date Extended To	March 20, 2025
Conference Dates	March 29,2025

Contact Us:

Conference Convener

- **+91 7588375573, 8411004602**
- **www.icmeesd.sknscoe.ac..in**

Call for Paper

All full paper submissions will be peer reviewed and evaluated based on originality, technical and/or research content/depth, correctness, relevance to conference, contributions, and readability.

IMPORTANT ANNOUNCEMENT:

Due to demand from participants committee has decided to conduct conference in both face to face as well as virtually.

1. **FACE to FACE PRESENTATION**
   - At AC Seminar Hall, SKN SCOE, Pandharpur

2. **VIRTUAL PRESENTATION**

   Google Meet: For real-time interaction between presenter and audience

ABSTRACT REQUIREMENTS:

- Abstracts must be written in English
- A brief introduction to the topic that you're investigating.
- Explanation of why the topic is important in your field/s.
- Statement about what the gap is in the research.
- An indication of your research methods and approach.
- The abstract text must be written in one continuous paragraph not longer than 300 words. Numbered list, bullet points or tables are strictly prohibited.

Presentation Requirements:

- All presentations must be done in English.

Now you can present your paper from the comfort of your home. Just send us your 10-15 minutes pre- recorded video presentation and slides. The video will be posted in our YouTube channel and Facebook page on the conference day.

Additionally participant will have to join by online mode at the time in case of online presentation.

Each presenter shall be given 10 minutes for presentation. An additional 5minutes will be added for Q& A which will be moderated by the session chair.

For the benefit of the audience, the presentation should at least cover the following area:

- The objective/purpose/rationale of the study
- Background/overview of the topic
- Theoretical framework
- Research design and methodology
- Overview of findings and results
- Conclusion/Discussion

Full Paper:

- Full papers must be uploaded in MS Word format.
- Papers must not be more than 15 pages long. This is inclusive of all text, tables, figures, and any appendices.
- The author will be notified via email if his/her paper has been accepted. Acceptance notifications will normally come with suggestions and remarks from the paper's reviewer.

All the selected articles after presentation during conference will be publish in peer reviewed journal International Journal of Advance and Applied Research.

Submit abstract/Full Paper via email **at : icmeesd@sknscoe.ac.in**

Publication:

Consent for online publication of papers received during the International Conference to be held in 2021. Each paper will be of maximum 10 pagesof A4 size (approx.) and we will publish within Fifteen days after receiving papers in the journal.

About Tracks and topics

Topic A: Materials

Rapidly growing global energy demands, limited reserves of fossil fuels and associated environmental concerns, the intermittent nature of renewable energy sources, the limited efficiency of existing energy conversion systems—these are the challenges that society faces today. Advanced materials are the key elements in the development of improved high-efficiency, low-cost, clean energy technologies. The section "Energy Materials" is a platform for the publication of original articles and comprehensive reviews on all aspects of fundamental science and applied research on materials used for harvesting, conversion, storage, transmission, and utilization of energy. The topics of interest include(but are not limited to) materials for:

- Energy harvesting: piezoelectric; thermoelectric; triboelectric; magnetostrictive;
- Energy storage: batteries; supercapacitors; hydrogen technology; hydrogen storage; water splitting; steam and carbon dioxide electrolysis; phase change materials; thermal energy storage;

·Energy conversion: fuel cells; photovoltaics; nuclear; solar energy conversion; biomass, biogas, and biofuels; electrocatalysis and photocatalysis;

- Energy transmission and emission control: superconductors; high- and low-emissivity coating; thermal insulation;
- Energy-efficient technologies and devices
- Energy-relatedenvironmental aspects: CO2 capture, utilization, and conversion; recovery and recycling of energy materials.

·Both simulation/modeling and experimental contributions on design, preparation, processing, characterization, and performance ofmaterials for energy-related technologies and applications are welcome.

- Materials for sensors
- Steels, Composites, Super alloys, Ti based materials, Shape memory alloys and High temperature materials

Topic B: Energy

- Advanced energy technologies
- Energy markets
- Integrated energy systems
- Nanotechnology applications to renewable energy
- Risk management issues in the energy sector
- Sustainable cities
- Energy, Water and Climate
- Energy Storage
- Concentrating Solar Power
- Photovoltaics
- Solar Desalination and Industrial Process Heat
- Biofuel and Alternative Fuel
- Ocean and Hydropower Technologies
- Energy efficiency
- Energy policy, economics, planning & regulation
- Modelling, simulation and forecasting of energy and carbon markets
- Renewableenergy
- Smart grids
- Sustainable buildings
- Sustainable Buildings and Cities
- Grid-interactive Efficient Buildings
- Solar Chemistry
- Wind Energy
- ·Electrochemical Energy Conversion Systems
- Distributed Energy Systems

Geothermal Energy

- Emerging and Hybrid Technologies
- All solid state batteries
- Capacitive energy storage systems
- Computational modeling of processes in SSHS
- Fuel cell catalysts and catalyst support
- Solar Concentrating Systems
- Nanotech enabled Solar Energy Systems
- Solar Energy Storage Systems
- Energy Production and Management
- Nanotechnology and materials technology
- Environmental and social impact
- Nuclear technology
- Energy, Chemical Management and Optimization
- Energy Chemical Management System Modelling and Simulation
- Traditional Energy and Clean Energy Development
- Energy and Low-Carbon Economy
- Energy Chemical Safety and Emergency Management
- Renewable Energy Resources and Systems
- Solar energy and energy storage
- Batteries for grid energy storage
- Ceramic and metallic interconnects
- Electrolytes; oxygen ion, proton and mixed conductors
- Photovoltaic cells technologies
- Solar Energy Systems
- Reflectors
- Solar Energy Technology
- Energy technology
- Emerging technology
- Energy eco- and management
- Energy Economics and Energy Finance
- Energy Chemical Process Simulation and Analysis
- Energy and Environmental System Engineering
- Energy Management System Evaluation and Control

Topic C: Environment

- Biomass and bio-based products
- Climate change & global warming
- Ecology & biodiversity conservation
- Environmental impact assessment
- Environmental pollution, prevention & pollution control
- Game theory and strategic behavior in environmental policies
- Life cycle analysis methodologies
- Sustainable communities
- Climate change and energy industry
- Design of energy markets
- Energy prices and uncertainties
- Energy and environmental policy
- Energy markets and regulation
- Greenhouse gas abatement costs and potentials
- Investment issues in liberalized markets
- Oil reserves and production
- Prospects for nuclear power
- Power and gas trade under volatile prices
- Renewable energy technologies and markets
- Security of supply issues
- Carbon pricing
- Eco-design & eco-efficiency
- Efficient use of resources
- Environmental policy, economics, planning & regulation
- Risk assessment
- Carbon trading and taxation
- Clean energy technologies
- Distributed generation issues
- Energy efficiency challenges
- Energy demand and economic growth
- Geopolitics of oil and natural gas
- Integration of intermittentpowersources
- Market power issues
- Prospects of CCS technologies
- Prospects for alternative transportation fuels
- Regulation and regulation uncertainties
- Risk management issues in the energy sector
- Shale fuel reserves, economics and sustainability

- Technology adoption prospects and policies
- Bio-engineering
- Biodegradation of hazardous substances
- Biodiversity conservation
- Carbon capture and storage
- Clean technologies
- Climate and climatic changes
- Deforestation
- Disinfection and disinfection by-products
- Effect of distribution systems on potable water quality
- Emission sources
- Environmental dynamics
- Environmental restoration and ecological engineering
- Environmental science and technology
- Environmental sustainability
- Environmental systems approach
- Fate of hazardous substances
- Geophysics
- Global environmental change and ecosystems management
- Global warming
- Green infrastructures
- Green manufacturing
- Ground water management
- Ground water remediation
- Habitat reconstruction
- Hazardous substances and detection techniques

Topic D: Sustainable Development

- Behavior towards sustainability
- Challenges, barriers and opportunities
- Communication tools for sustainable development
- Environment and climate friendly schools
- School-community partnership
- Sustainability across curriculum
- Sustainability education by private industry
- Sustainable Development and education
- Health and the environment
- Health related organisms
- Hybrid energy systems
- Industrial wastewater treatment
- Institutional development
- Integrated ecosystems management
- Interaction between pollutants
- Landscape degradation and restoration
- Legal, economic and managerial aspects of solid waste management
- Life cycle analysis and Systems process accounting
- Management and regulation of point and diffuse pollution
- Management of hazardous solid waste
- Management of water treatment residuals
- Meteorology
- Modelling and decision support tools
- Monitoring and analysis of environmental contaminant
- Nutrients removal
- On site and small scale systems
- Optimization of collection systems
- Ozone layer depletion
- Physical and Social hydrology
- Public participation
- Quality guidelines, environmental regulation and monitoring
- Recycling and reuse
- Regulatory practice
- Resource management
- Reuse of reclaimed waters
- Safety for all
- Satellite applications in the environment
- Sludge treatment and reuse
- Soil decontamination
- Solid waste management
- Storage technology
- Storm-water management
- Suspended and fixed film biological processes

- Sustainability in process industries
- Sustainable cities
- Systems embodiment accounting and input-output analysis
- Technical aspects of treatment and disposal methods
- Toxicity assessment and epidemiological studies
- Trans-boundary cooperation
- Waste management
- Waste minimization
- Waste valorization
- Wastewater and sludge treatment
- Water and Soil reservation
- Water quality
- Water quality objectives standard setting
- Water resources and river basin management
- Water treatment and reclamation
- Wetlands
- Zero energy building
- Energy Engineering
- Control technologies
- Demand-side management
- Distributed energy resources
- Distributed ledger systems for energy
- Eco-technology
- Economic instruments
- Electricity market and electricity supply chain
- Energy efficient systems
- Energy management and audit
- Energy policies and economics
- Energy security and clean use
- Sustainability, Society, and Education
- Energy and sustainable development

Registration Fee: ₹1000

ONE Registration Fee includes the following for the registered authors

- Participation in the technical program
- Digital Attendance Certificate
- E-Proceedings

- In case of multiple authors at least one author must register. Only the registered author will receive the certificate. Certificate will be issued to all the authors ofthe paper only against the registration by all the authors.
- If an author submits twopapers, both papers must be registered separately.
- Travelreimbursement and accommodation are not provided.
- Presentation in absentia is not encouraged.

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❖ A/C No : 2676201000169
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❖ Branch address : CANARA BANK, PANDHARPUR

623138170001 69@cnrb

Conference Director:

Dr. Kailash J. Karande
Principal,
SKN Sinhgad College of Engineering, Pandharpur, India

Conference Chairman:

Dr. Swanand G. Kulkarni
Vice – Principal,
SKN Sinhgad College of Engineering, Pandharpur

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Dean (Incubation)
SKN Sinhgad College of Engineering, Pandharpur

Conference Co-Convener:

Prof. R. S. Yevale
Assistant Professor,
Sinhgad College of Engineering, Pandharpur

Conference Committee:

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Dr. Sampat G. Deshmukh	Dean (Publication)

Dr. Edgar Estupinan
Professor,
University of Tarapaca,Arica,
Chile

Dr. Atul A. Sagade
Professor,
University of Tarapaca, Arica, Chile.

Dr. Sampat G. Deshmukh
Dean (Publication)
SKN Sinhgad College of Engineering, Pandharpur

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Arica, Chile

asagade@academicos.uta.cl

Global Foundation

gfoundation892021@gmail.com

Contact: +91 8888454089

www.icmeesd.sknscoe.ac.in

Review Committee:

Sr. No.	Area of Specialization	Name of the Reviewer
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4		Dr. S. H. Kshirsagar
5		Prof. G. D. Lakade
6	Energy	Dr. S. G. Kulkarni
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