

*2<sup>nd</sup> International Conference on*  
**Recent Advances in Mechanical  
Engineering Research and Development**  
**ICRAMERD-21**

*24th-25th September 2021*

**In Virtual Mode**



**Department of Mechanical Engineering**  
**Institute of Technical Education and Research**  
**Siksha 'O' Anusandhan**  
(Deemed to be University)  
Bhubaneswar, Odisha, India

## OUR KEYNOTE SPEAKER



**Prof. A. Rolstadas**  
Norwegian University of Science  
& Technology,  
Norway

**Topic: New challenges in manufacturing engineering education**



**Professor Jim Browne**  
President at Irish  
Academy of Engineering  
Chairman at Children's Health Ireland (CHI)



**Professor (Dr.) Md. Mamun Habib**  
School of Business & Entrepreneurship,  
Independent University, Bangladesh  
Visiting Scientist, University of Texas  
Arlington (UTA), USA

**Supply Chain Disruption and COVID 19**



**Prof. David Scott Sink,**  
Western Michigan University,  
USA

**Topic: Large Scale  
Enterprise Transformation**



**Prof. Bopaya Bidanda,**  
University of Pittsburgh,  
USA

**Topic:  
Sustainable Innovation**



**Prof. Pinakeswar Mahanta**  
Professor and Director  
Department of Mechanical Engineering  
NIT Arunachal Pradesh  
(on deputation from IIT Guwahati)

**Topic: Recent Development in  
CO- Gasification of Biomass with Coal**

## OUR INVITED SPEAKERS



**Professor Suman Chakraborty**  
Depart. Mechanical Engineering,  
IIT, Kharagpur



**Prof. (Dr.) Upendra Kumar Mohanty**  
Professor (Retd.) NIT, Rourkella  
Professor, Dept. of Mechanical Engineering  
SOA (Deemed to be University)



**Dr. Benudhar Sahoo**  
Regional Director  
RCMA (KPT), CEMILAC, DRDO  
Sunabeda-2



**Mr. Jagadish Patra, AVP,**  
Aditya Aluminium



**Mr. Sushanta Kumar Das**  
AVP (Maint.)  
TRL Krosaki Refractories Limited



**Dr. Debanik Roy, Scientist,**  
Division of R H & AMP: Robotics & amp  
Professor, Homi Bhabh  
National Institute (HBNI),  
Bhabha Atomic Research Centre,  
DAE, Govt. of India



**Dr. Pradeep K. Sahoo,**  
Principal Scientist,  
CSIR National  
Aerospace Laboratories,  
Bangalore, India.

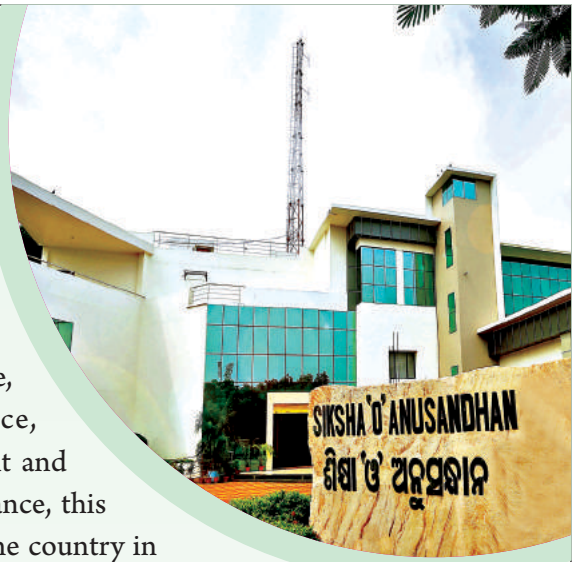


**Mr. Sridhar Panigrahi,**  
Division Head,  
SR-SS & CSDLPSC/ISRO,  
Valiamala

## ABOUT

### SIKSHA 'O' ANUSANDHAN

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 IAQ, URS, UK.



## ABOUT

### INSTITUTE OF TECHNICAL EDUCATION AND RESEARCH (ITER)

ITER is the Faculty of Engineering and Technology of Siksha 'O' Anusandhan is the oldest constituent institute commenced from 1997. It has fourteen departments with more than four hundred faculty members. The department of Mechanical Engineering is continually working to provide quality research outputs in the areas of thermal engineering, renewable energy, design and manufacturing etc.



## ABOUT THE CONFERENCE

The 2<sup>nd</sup> International Conference on Recent Advances in Mechanical **Engineering Research and Development (ICRAMERD-21)** is being organized by “The Department of Mechanical Engineering”, Institute of Technical Education and Research (ITER), Siksha 'O' Anusandhan (Deemed to be University). The mission is to create a platform for exchange and dissemination of knowledge in the emerging field, different emerging research aspects in Mechanical Engineering from practicing professionals and academic researchers both at national and international levels. Large numbers of high caliber researchers across the world have consented to deliver key note addresses. Speakers from industry are invited to enlighten about the new technologies being used in different industry sectors. Top management professionals and eminent academicians have also consented to participate in panel discussions.

### CONFERENCE DELIBERATIONS

The International Conference deliberations are being structured to cover the following themes (but not limited to)

#### 1. MATERIALS ENGINEERING

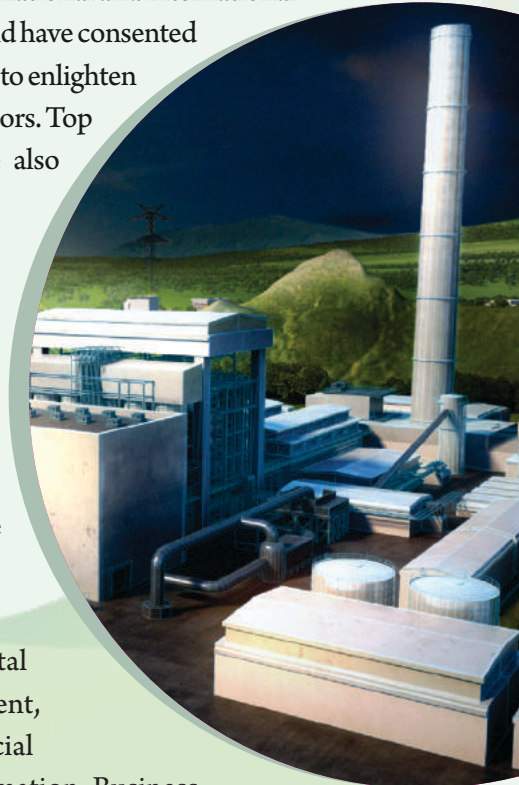
Nanomaterials and Nanocomposites, Ceramics and Glasses, Polymers, Electrical and Magnetic materials, Composite, Fibers, Bio-Materials, Nanostructure, Flexible and Hybrid Materials, Smart Materials.

#### 2. INDUSTRIAL AND SYSTEMS ENGINEERING

Operation as a service, Production Planning & Control, Total Quality Management, Supply Chain & Logistics Management, Product Design & Development, Machine Learning, Artificial Intelligence in Industry 4.0 Applications, Robotics & Automation, Business Process Re-engineering, Operation Research, Industrial Automation, Control System.

#### 3. MANUFACTURING SYSTEMS ENGINEERING

Advanced Manufacturing Processes, Computer Simulation, Manufacturing Facilities, Planning and Optimisation, Lean Manufacturing systems, Automation in Control System Design and Simulation, Application of optimization methods in Engineering Design, Green Manufacturing Processes, Rapid Prototyping, Additive Manufacturing, Casting, Metal Forming, Welding, Powder Metallurgy.



ICRAMERD

#### **4. AUTOMOTIVE ENGINEERING**

Design and simulation of smart Vehicles, Electric and Hybrid Vehicles, Artificial Intelligence in Automotive Engineering, Automated Guided Vehicle.

#### **5. THERMAL SYSTEMS ENGINEERING**

Fluid Flow, Heat Transfer, Application Thermodynamics in thermal system Design, Modelling and Simulation, Computational theory in Engineering, Combustion, Power Plant Engineering, Gas Dynamics and Jet Propulsion, Refrigeration, Heating Ventilation and Air conditioning (HVAC).

#### **6. DESIGN ENGINEERING**

Biomechanics, Automation, Control system design and simulation, Application of optimisation methods in Engineering Design Composite Materials, Functionally Graded Materials, Structural Analysis, Vibration, Finite Element Methods, Tribology.

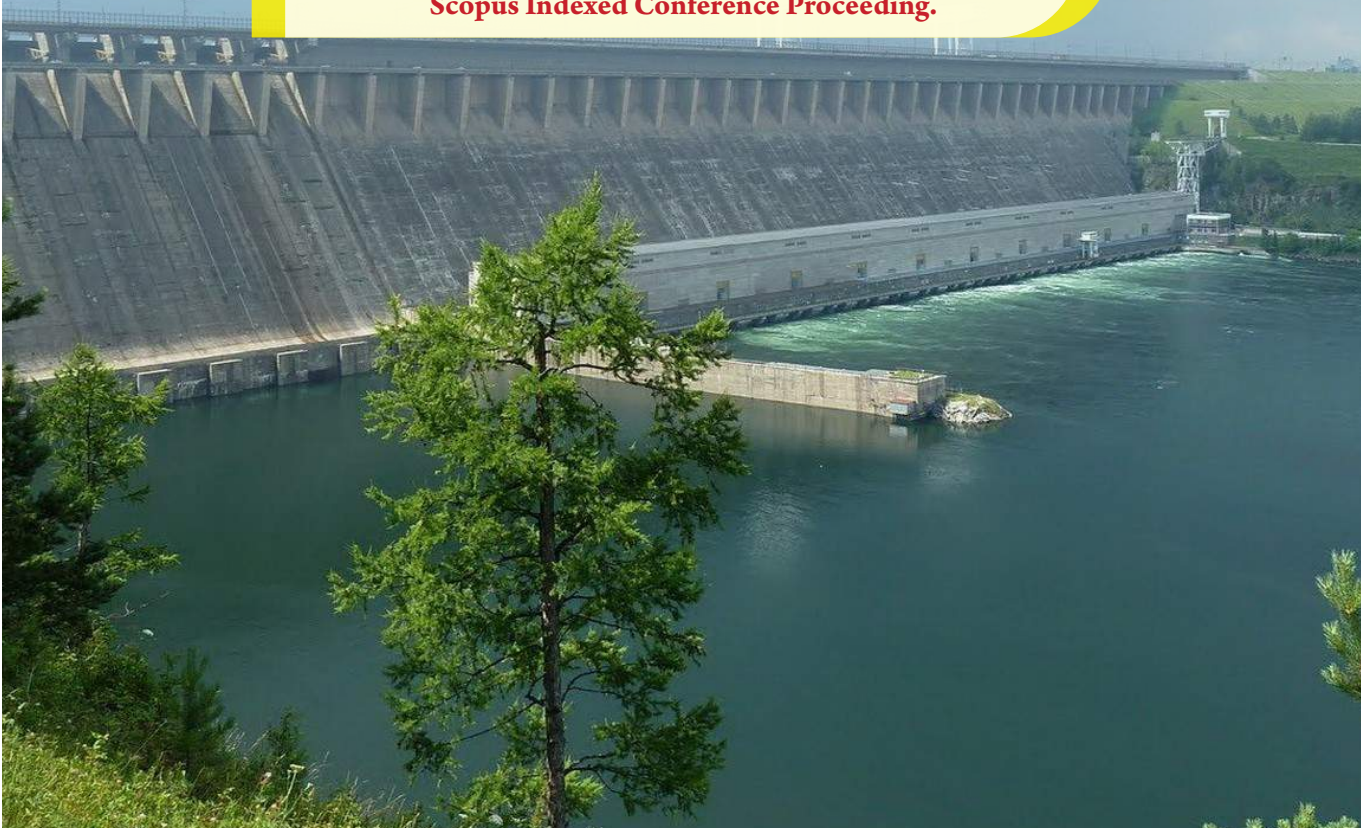
#### **7. ASSURANCE ENGINEERING**

Safety System Design, Reliability Engineering & Optimization, Design for Maintainability.

#### **8. ENERGY**

Renewable Energy and Technology, Solar, Wind, Biomass, Geothermal, Hydropower energy Engineering etc., Fuel Cell, Alternative Fuel, Sustainable Energy System, Energy Saving Devices- Super Capacitors.

**Publication Details :**  
**All the selected papers will be published in**  
**Lecture Notes in Mechanical Engineering (Springers)**  
**Scopus Indexed Conference Proceeding.**



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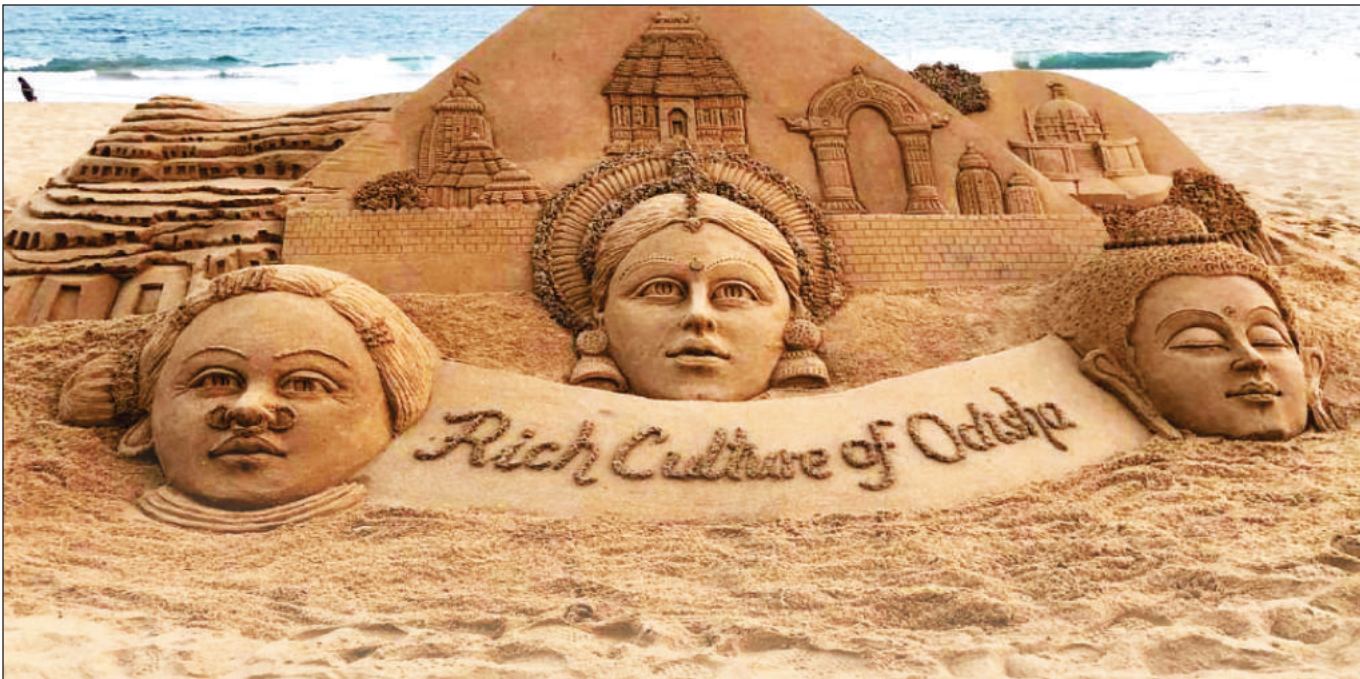
**Participants are requested to refer the website to know the details regarding the procedure to submit the paper**

**[www.icramerd.soa.in](http://www.icramerd.soa.in)**

Registration Link: <https://forms.gle/MKyP1P7xQSVdd6pU7>

**Email: [icramerd21@soa.ac.in](mailto:icramerd21@soa.ac.in)**





### Important Dates

Last Date of Paper Submission	:	10th July, 2021
Notification of Paper Acceptance	:	25th July, 2021
Submission of Camera-Ready Paper	:	5th Aug, 2021
Last Date of Registration	:	10th Aug, 2021

### Payment Details

Beneficiary Name: Institute of Technical Education and Research
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### Paper Submission Portal:

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**Dr. Premananda Pradhan**  
Convenor

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Mobile: 7008726144

**Dr. Shakti Prakash Jena**  
Co. Convenor

Email: shaktijena@soa.ac.in  
Mobile: 8249476361

**Dr. Binayak Pattanayak**  
Co. Convenor

Email: binayakpattanayak@soa.ac.in  
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