

A  
Report on  
4<sup>th</sup> International Conference on  
“New and Renewable Energy  
Resources for Sustainable Future”  
**ICONRER-2023**

*(Nov 02-04, 2023)*

**Organized By:**

Department of Mechanical Engineering,

Swami Keshvanand Institute of Technology, Management &  
Gramothan (SKIT), Jaipur (India)

in collaboration with

Department of Mechanical Engineering, Assiut University, Egypt

**Submitted By:**

Dr. Ashish Nayyar, Professor  
Principal Coordinator, ICONRER-2023

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## **1. About the Conference**

The 4th International Conference on “New and Renewable Energy Resources for Sustainable Future” (ICONRER-2023) is being organized by Department of Mechanical Engineering of Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur (India) in collaboration with Department of Mechanical Engineering, Assiut University, Egypt during Nov 02-04, 2023. This scientific dialogue aims to provide a platform where scientists, researchers, academicians, industry experts, new aspirants, as well as students of science and technology can come together and engage in fruitful exchange of views and ideas to pave way for “New and Renewable Energy Resources”.

The scope of this conference encompasses latest research outcomes pertaining to the “Energy” domain in the form of theoretical models, environmental impact, security and defense technology, innovative designs, enhancements and improvements in existing frameworks, sustainable technological advancement, societal welfare etc. Thus the conference intends to bring together the best minds from around the world to cover literally all aspects of energy technology from a multi-disciplinary perspective.

## **2. About SKIT**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advanced Learning. Today the institute is recognized as one of the centers of academic excellence in Northern India. SKIT is the only affiliated technical institute in Rajasthan to have earned an A++ grade by NAAC. The Institute is affiliated to Rajasthan Technical University, Kota for offering Postgraduate and Graduate Courses in Engineering and Management. SKIT has been ranked No.1 in Engineering Program in Rajasthan consecutively for the last six years by RTU, Kota.

SKIT is putting in efforts for making industry ready engineers and managers through effective Industry –Institute Interface. Apart from the University curriculum SKIT also pursues activities for research and development in various fields. The green landscaping, aesthetic elegance of arches and the vibrant pursuit of knowledge by the young aspirants make the environment serene, pleasant, and dynamic. Students joining the institute share the box full of opportunities for professional and personal development through an environment of practical orientation, industrial interaction and student led activities which help the students to develop good communication skills, integrated personality, and greater competitive spirit.

## **3. About Department of Mechanical Engineering**

The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The department offers B.Tech (Mechanical Engg.) and M.Tech (Renewable Energy) Technology courses. Also the department is also identified as research center of affiliating university for Ph.D. courses in Renewable energy, Production Engineering and Mechanical Engineering. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in the fact that the department has already been accredited and re-accredited by National Board of Accreditation (NBA) (India). The department has developed its facilities in such a way that students can practice self-study and undertake other curricular activities. Special attention is paid for developing positive attitudes, leadership, group working and safety consciousness in the students.

## 4. Budget Approval For Conference



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur



DEPARTMENT OF MECHANICAL ENGINEERING  
Proposed Plan of Events to be organized in Session:2023-24

S. No.	Type of Event	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Any Collaboration	Budget Required
1	FDP	IC Engine Testing and Simulation	Online	10-14 October, 2023	Prof. Ashish Nayyar, Dr. Chandan Kumar	-	30,000
2	International Conference	ICONRER-2023	Physical	2-4 Nov, 2023	Prof. Ashish Nayyar	To be applied	340,000
3	Student Workshop	Research Methodology and Data Analytics	Physical	28 Nov - 2 Dec, 2023	Dr. Deepak Kumar, Dr. Achin Srivastav	-	45,000
4	STTP	Drone Technology Assembly & Programming	Physical	15-19 January, 2024	Mr. Praveen Saraswat	-	50,000
5	Student Workshop	Impact of Industry 4.0 on Supply Chains	Physical	6-10 Feb, 2024	Mr. Suresh Garg, Dr. Prem Singh	-	40,000
6	STTP (Non-Teaching)	Mechanical Engineering Laboratory Practices	Physical	12-16 Mar, 2024	Mr. Vinay Singh Marmal Mr. Suresh Garg Mr. Vishnu Jangid	-	20,000
7	FDP	Renewable Energy	Online	19-23 March, 2024	Mr. Dinesh Sharma, Mr. Ankit Agarwal	-	30,000

*Dheeraj Joshi*

Prof. Dheeraj Joshi  
Head Dept. of Mechanical Engineering

Copy to:  
Registrar  
Dean Office  
O.F.A.  
Deputy Vice

Approved except item No.2,

*Murkeshy*

28.7.23

for International Conference it is expected that department/coordinators will make sincere efforts to obtain sponsorships. ~~Report~~

*Murkeshy*

Yes permitted as above found by (Head of A.)  
Mh Forwarded to Registrar/Dean

28.7.23

*Approved*  
*21/8/2023*

## 5. Committees for Conference

### Patrons:

- Shri Raja Ram Meel
- Shri Surja Ram Meel

### Advisory Board of Conference:

- Shri A. K. Narang, Ex. Scientist, Department of Atomic Energy, BARC, Mumbai
- Prof. Ahmad Hamza, Assiut University, Egypt
- Mr. Amit Nayyar, Duke Energy, USA
- Prof. Anand Pandey, Manipal University, Jaipur, India
- Dr. Anish Modi, Indian Institute of Technology, Bombay, India
- Prof. Avinash K Agarwal, Indian Institute of Technology Kanpur, India
- Prof. B.K. Sharma , Poornima University, Jaipur, India
- Prof. B.L. Salvi, College of Technology and Engineering, Udaipur, India
- Prof. Brijesh Tripathi, Rajasthan Technical University, Kota, India
- Prof. Dharam Buddhi, Lovely Professional University, Punjab, India
- Prof. Deepak Sharma, College of Technology and Engineering, Udaipur, India
- Prof. Debabrata Das, Indian Institute of Technology, Kharagpur, India
- Prof. Dilip Sharma, Malaviya National Institute of Technology, Jaipur, India
- Prof. G.D. Agarwal, Malaviya National Institute of Technology, Jaipur, India
- Prof. Jyotirmay Mathur, Malaviya National Institute of Technology, Jaipur, India
- Prof. K Mohanty, Indian Institute of Technology, Guwahati, India
- Prof. K Sudhakaran, Universiti Malaysia Pahang, Pahang, Malaysia
- Dr. K.B. Rana, Rajasthan Technical University, Kota, India
- Prof. K.K. Khatri, LNM Institute of Information Technology, Jaipur, India
- Prof. L.M. Das, Indian Institute of Technology Delhi, India
- Dr. M.L. Meena, Malaviya National Institute of Technology, Jaipur, India
- Prof. Motilal Rinwa, Government Engineering College, Jhalawara, India
- Prof. M.V. Reddy, Institute of Research Hydro-Quebec, Montreal, Canada
- Prof. PMV Subbarao, Indian Institute of Technology, Delhi, India
- Dr. Prodyut Ranjan Chakraborty, IIT Jodhpur, India
- Prof. Puneet Sharma, Rajdhani Institute of Technology and Management, Jaipur, India
- Dr. Rahul Goyal, Maipal University, Jaipur, India
- Prof. Soteris Kalogirou, Cyprus Institute of Technology, Cyprus, Greece
- Mr. Suneet Mathur, Rajasthan Renewable Energy Corporation Limited, Jaipur, India

### Local Advisory Committee (SKIT)

- Shri Jaipal Meel, Director
- Prof. S.L. Surana, Director (Academics)
- Ms. Rachna Meel, Registrar
- Prof. Ramesh Pachar, Principal
- Prof. R. K. Jain, Dean
- Ms. Hemlata Dullar, Principal, Pharmacy
- Dr. Dheeraj Joshi, Head, ME Department

- Prof. Anil Chaudhary, Head, IT Department
- Dr. Mukesh Gupta, Head, CSE Department
- Dr. Mukesh Arora, Head, ECE Department
- Dr. D. K. Sharma, Head, CE Department
- Dr. Sarfaraz Nawaz, Head, EE Dept.
- Prof. Rohit Mukherjee, Head, Ist year Incharge
- Prof. Amber Srivastava, Head, TPO & Mathematics Department
- Dr. Sharda Soni, Head, Chemistry Department
- Dr. Neha Purohit, Head, English Department
- Dr. Braj Raj Sharma, Head, Physics Department
- Prof. Ona Ladiwal, Head, Department of Management Studies

### Conveners

- Dr. Ashish Nayyar
- Mr. Dinesh Kumar Sharma
- Mr. Ankit Agarwal
- Dr. Chandan Kumar

### Core Committee

- Mr. Naveen Kumar Sain (Secretary)
- Dr. Manoj Kumar Sain
- Dr. Rishi Vyas
- Dr. Manu Augustine
- Mr. Praveen Saraswat
- Mr. Brij Mohan Sharma
- Mr. Arun Beniwal
- Mr. Sandeep Kumar Bhaskar
- Dr. Amit Jhalani
- Mr. Yogesh Sharma
- Mr. Nitin Goyal
- Ms. Namita Soni
- Ms. Monika Khurana
- Mr. Amit Bansal
- Mr. Sudesh Garg
- Mr. Saurabh Gupta

### Student Coordinators and Volunteers

S. No.	Name of student	University Roll No.	Semester	Volunteer Team
1	Aayushman Mishra	20ESKME001	VII Semester	Inauguration and Valedictory Committee
2	Ankit Chaudhary	20ESKME011	VII Semester	Core Committee
3	Deepak Kumar Sai	20ESKME029	VII Semester	Inauguration and Valedictory Committee

4	Gautam Kumar Kamat	20ESKEC044	VII Semester	Photography
5	Harsh Tanwar	20ESKME038	VII Semester	Inauguration and Valedictory Committee
6	Mayank Mittal	20ESKME058	VII Semester	Registration Committee
7	Naveen Kumar	20ESKME060	VII Semester	Registration Committee
8	Pawan Bora	20ESKME067	VII Semester	Registration Committee
9	Priyadarshini Singh Shekhawat	20ESKME068	VII Semester	Inauguration and Valedictory Committee
10	Preeti Gupta	21ESKEE051	V Semester	Registration Committee
11	Abhinav Sharma	22ESKCY004	III Semester	Inauguration and Valedictory Committee
12	Anshu Kumari Sarsunia	L230018	III Semester	Inauguration and Valedictory Committee
13	Arbaz Mohammad	22ESKME007	III Semester	Conference Venues Team
14	Dipesh Dour	22ESKEE025	III Semester	Photography
15	Hana Kazi	22ESKME017	III Semester	Inauguration and Valedictory Committee
16	Khush Dhaka	22ESKME400	III Semester	Inauguration and Valedictory Committee
17	Krishna Chaturvedi	22ESKME025	III Semester	Inauguration and Valedictory Committee
18	Kshitiz Joshi	22ESKME026	III Semester	Inauguration and Valedictory Committee
19	Manthan Akar	22ESME031	III Semester	Inauguration and Valedictory Committee
20	Nitish Gupta	22ESKME034	III Semester	Inauguration and Valedictory Committee
21	Piyush Saini	22ESKME035	III Semester	Inauguration and Valedictory Committee
22	Priyankar Kumawat	22ESKME037	III Semester	Inauguration and Valedictory Committee
23	Ravi Kumar	L230003	III Semester	Conference Venues Team
24	Shashank Sharma	22ESKME041	III Semester	Inauguration and Valedictory Committee
25	Shubh Chugh	22ESKME043	III Semester	Conference Venues Team
26	Snehal Gajraj	22ESKEE068	III Semester	Photography
27	Tushar Bhola	22ESKME045	III Semester	Inauguration and Valedictory Committee
28	Aditya Garg	I01	I Semester	Registration Committee
29	Aniket Raj	B230350	I Semester	Photography
30	Nehal Swami	I32	I Semester	Inauguration and Valedictory Committee
31	Sarthak Dhameja	N23	I Semester	Food
32	Tanmay Khatri	N47	I Semester	Food

## **6. Themes of Conference:**

The International Conference on New and Renewable Energy Resources for Sustainable Future (ICONRER-2023) invited quality research papers that present innovative ideas, novel approaches, developments, technologies, best practices, tools and techniques and metrics in order to provide future directions to young researchers and practitioners aspiring to contribute in any aspect related to the "Energy" domain. The themes are as follows:

- Sustainable urban systems and infrastructure
- Low Energy architecture and buildings
- Gasification and pyrolysis
- Alternative fuels and fuel cell technologies
- Strategies for energy demand and use optimization
- Sustainable consumption and production
- CO<sub>2</sub> capture, storage, and utilization
- Heating and cooling systems
- Smart-grid
- Energy metrology
- Non conventional energy
- Solar energy technologies
- Energy modeling and analysis
- Socio economic and policy
- Gasification and pyrolysis
- Nano technology
- Energy storage technologies
- Environmental pollution control
- Green technologies and green buildings



7. Speakers of ICONRER-2023

Speakers of ICONRER-2023



**PROF. AHMED HAMZA  
H. ALI**



**DR. AKHILENDRA  
PRATAP SINGH**



**MR. GOLO J. PILZ**  
Advisor On Renewable Energy, Brahma



**PROF. DHARAM BUDDHI**



**PROF. DILIP SHARMA**



**PROF. SUDHAKAR  
KUMARASAMY**



**DR. NEELKANTH  
MARATHE**



**DR. P.M.V SUBBARAO**



**DR. RAJESH KUMAR  
PRASAD**

## 8. Conference Programme

### Conference Program

Date and Day	Time (IST-GMT+5:30)	Time (IST-GMT+5:30)	Time (IST-GMT+5:30)
<b>Day 1</b> November 02, 2023 <b>Thursday</b>	Inaugural Session 10:00- 11:00 AM	<b>Plenary Talk-1</b> (11:00 AM-12:00 PM) <b>Dr. Golo J Pilz</b> Brahmkumaris Ashram Mount Abu	<b>Technical Session (A.1)</b> <b>Keynote 1: Dr. Akhileendra Pratap Singh</b> IIT-BHU, Varanasi <b>Keynote 2: Shri Subir Karmakar,</b> <b>NTPC, Jaipur</b>
		<b>Hall A</b>	<b>Hall A</b>
			<b>Technical Session (A.2)</b> <b>Keynote 3: Prof. Ahmed Hamza H Ali</b> (Online) Assuit University, Egypt Online: <u>9, 11, 49, 72</u> Offline: <u>12, 13, 16, 17, 20, 22, 43, 44, 45, 46, 48, 57, 56, 59, 65, 67, 70, 103, 108,</u>
			<b>Hall A</b>
<b>Day 2</b> November 03, 2023 <b>Friday</b>	<b>Plenary Talk-2</b> <b>Prof. Dilip Sharma</b> Professor Malaviya National Institute of Technology, Jaipur <b>Plenary Talk 3</b> <b>Dr. Ravindar Kumar Sharma</b> BARC, Trombay, Mumbai	<u>Visit to Asia's Biggest Biogas Plant,</u> <u>Hingonia Gaushala</u>	
		<b>Hall A</b>	<b>Hall A</b>
<b>Day 3</b> November 04, 2023 <b>Saturday</b>	<b>Plenary Talk-4</b> <b>Prof. PMV Subbarao</b> Professor and Head, Centre for Rural Development and Technology, IIT Delhi	<b>Technical Session (A.5)</b> <b>Keynote: Prof. G D Agarwal</b> Professor, Malaviya National Institute of Technology, Jaipur	<b>Technical Session (A.6)</b> <b>Prof. Dharam Buddhi</b> (Online) Utranchal University, Dehradun <b>Online:</b> <u>19, 28, 29, 31, 33, 47,</u> <b>Offline:</b> <u>10, 23, 27, 32, 35, 37, 38, 41, 50, 54, 60, 69, 71, 73, 74, 102, 104,</u>
		<b>Hall A</b>	<b>Hall A</b>
			<b>Valedictory Session</b>

## 9. Conference Brochure

### Advisory Board of Conference:

Shri A. K. Narang, Ex. Scientist, Department of Atomic Energy, BARC, Mumbai  
 Prof. Ahmad Hama H. Ali, Assiut University, Egypt  
 Shri. Amit Nayyar, Duke Energy, USA  
 Prof. Anand Pandey, Manipal University, Jaipur, India  
 Dr. Anish Modi, Indian Institute of Technology, Bombay, India  
 Prof. Avinash K Agarwal, Indian Institute of Technology Kanpur, India  
 Prof. BK Sharma, Poornima University, Jaipur, India  
 Prof. BL Salvi, College of Technology and Engineering, Udaipur, India  
 Prof. Brijesh Tripathi, Rajasthan Technical University, Kota, India  
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 Prof. GD Agarwal, Malaviya National Institute of Technology, Jaipur, India  
 Prof. Jyotirmay Mathur, Malaviya National Institute of Technology, Jaipur, India  
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 Prof. MV Reddy, Institute of Research Hydro-Quebec, Montreal, Canada  
 Prof. PMV Subbarao, Indian Institute of Technology, Delhi, India  
 Prof. Pradyut Ranjan Chakraborty, IIT Jodhpur, India  
 Prof. Puneet Sharma, Rajdhani Institute of Technology and Management, Jaipur, India  
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 Prof. Soteris Kalogirou, Cyprus Institute of Technology, Cyprus, Greece  
 Shri Suneet Mathur, Rajasthan Renewable Energy Corporation Limited, Jaipur, India

### Contact Us:

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 (+91 988722265)

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 Shri Surja Ram Meel  
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 Prof. S.L. Surana, Director (Academics)  
 Ms. Rachna Meel, Registrar  
 Prof. Ramesh Pachar, Principal  
 Prof. R. K. Jain, Dean  
 Ms. Hemlata Dullar, Principal, SKIP  
 Prof. Dheeraj Joshi, Head, ME Dept.  
 Prof. Anil Chaudhary, Head, IT Dept.  
 Prof. Mukesh Gupta, Head, CS Dept.  
 Prof. Mukesh Arora, Head, OFA & ECE Dept.  
 Dr. Sarfaraz Nawaz, Head, EE Dept.  
 Prof. Rohit Mukherjee, Head, 1st year Incharge  
 Prof. Amber Srivastava, Head, Mathematics Dept.  
 Prof. Sangeeta Vyas, Head, OSA  
 Dr. Sharada Soni, Head, Chemistry Dept.  
 Prof. Neha Purohit, Head, English Dept.  
 Prof. Braj Raj Sharma, Head, Physics Dept.  
 Prof. Ona Ladival, Head, DMS, SKIT

### Principal Coordinator:

Dr. Ashish Nayyar

### Conveners:

Dr. Ashish Nayyar (Programme)  
 Mr. Dinesh Kumar Sharma (Technical)  
 Mr. Ankit Agarwal (Registration)  
 Dr. Rishi Vyas (Website)  
 Dr. Chandan Kumar (Publication)

### Core Committee:

Mr. Naveen Kumar Sain (Secretary)  
 Dr. Manu Augustine  
 Mr. Praveen Saraswat  
 Mr. Brij Mohan Sharma  
 Mr. Arun Beniwal  
 Mr. Sandeep Kumar Bhaskar  
 Dr. Amit Jhalani  
 Mr. Yogesh Sharma  
 Mr. Nithi Goyal  
 Ms. Namita Soni  
 Ms. Monika Khurana

For more information visit:  
[www.iconrer.skit.ac.in](http://www.iconrer.skit.ac.in)

Feel free to write at: [Iconrer@skit.ac.in](mailto:Iconrer@skit.ac.in)

## 4th INTERNATIONAL CONFERENCE on "NEW AND RENEWABLE ENERGY RESOURCES FOR SUSTAINABLE FUTURE"

# ICONRER-2023

(November 02 – 04, 2023)

Organized By



Department of Mechanical Engineering  
 Swami Keshvanand Institute of Technology,  
 Management & Gramothan, Jagatpura,  
 Jaipur-302017 (INDIA)

Supported by:



FOR MORE INFORMATION VISIT [www.iconrer.skit.ac.in](http://www.iconrer.skit.ac.in)

# ICONRER-2023

### Publication

All Selected papers will be published in form a Book Series from reputed Publishers Springer/ Cambridge Scholars/ Elsevier. All selected papers will be assigned DOI (CrossRef).

Some selected papers will be processed for consideration into Special Issues of Journal of Mobility Technology Published by ARAI.



Special Issue on  
 "Driving Towards a Greener  
 Tomorrow: Smart Use of  
 Renewable Energy Resources for  
 Sustainable Mobility"

### Important Dates

- Deadline of receipt of Manuscript: Oct. 05, 2023
- Notification for Manuscript acceptance: Oct. 11, 2023
- Deadline for receipt for camera ready manuscript and author registration: Oct. 15, 2023
- Publication of tentative conference programme: Oct. 25, 2023
- Conference Date: Nov. 02 to 04, 2023

### Registration Charges

Category	Indian	Foreigner
PhD Scholar/PG/UG Students	₹ 3,000	\$ 40 USD
Academicians	₹ 4,000	\$ 50 USD
Industry Persons	₹ 5,000	\$ 60 USD

\*Get early bird discount of 30% if done before October 15, 2023

Kindly visit conference website for registration

### About Conference

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### About the Department of Mechanical Engineering

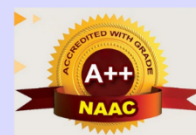
The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The department offers B.Tech (Mechanical Engg.) and M.Tech (Renewable Energy) Technology courses. Also the department is also identified as research center of affiliating university for Ph.D. courses in Renewable energy, Production Engineering and Mechanical Engineering. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in the fact that the department has already been accredited and re-accredited by National Board of Accreditation (NBA) (India). The department has developed its facilities in such a way that students can practice self-study and undertake other curricular activities. Special attention is paid for developing positive attitudes, leadership, group working and safety consciousness in the students.

### Call for Papers

The International Conference on New and Renewable Energy Resources for Sustainable Future (ICONRER-2023) invites quality research papers that present innovative ideas, novel approaches, developments, technologies, best practices, tools and techniques and metrics in order to provide future directions to young researchers and practitioners aspiring to contribute in any aspect related to the "Energy" domain.

### Conference Themes

- Sustainable urban systems and infrastructure
- Low Energy architecture and buildings
- Gasification and pyrolysis
- Alternative fuels and fuel cell technologies
- Strategies for energy demand and use optimization
- Sustainable consumption and production
- CO<sub>2</sub> capture, storage, and utilization
- Heating and cooling systems
- Smart-grid
- Energy metrology
- Non conventional energy
- Solar energy technologies
- Energy modeling and analysis
- Socio economic and policy
- Gasification and pyrolysis
- Nano technology
- Energy storage technologies
- Environmental pollution control
- Green technologies and green buildings



## 10. Inaugural Invitation



4<sup>th</sup> INTERNATIONAL CONFERENCE  
on  
“NEW AND RENEWABLE ENERGY  
RESOURCES FOR SUSTAINABLE FUTURE”  
(November 02 – 04, 2023)



# ICONRER-2023



## INVITATION



Department of Mechanical Engineering,  
**Swami Keshvanand Institute of Technology,**  
**Management & Gramothan, Jaipur**

Cordially invites you to the  
**Inaugural Ceremony**  
(November 02, 2023 from 9.00 AM onwards)

**Venue: Gyan Mandir Auditorium**



*Please grace the event by your  
benign presence.*



***With Regards,***  
***Team ICONRER-2023***

## 11. Minute to Minute Programme of Inaugural Ceremony

<b>ICONRER-2023</b>		
<b>Minute to Minute - Inaugural Ceremony</b>		
Date: 02 Nov. 2023 (9.00 AM Onwards), Venue: Gyan Mandir Auditorium		
Time-Duration	Activity	
09:00 -09:06	Welcome of participants and guests alongwith introduction to the Insitute, conference and sponsors	
09:06-09:11 (5 min)	<b>Call for lighting of the lamp by dignitaries (with Saraswati Vandana):</b>	
	1	Chief Guest-Sh. Ajitabh Sharma, Chairman, JCTSL
	2	Guest of Honor- Dr. Golo J. Pilz (Adviser Renewable Energy, Brahma Kumaris & World Renewal Spiritual Trust, Mount Abu President, IndiaCare Trust, Berlin-Germany)
	3	Presiding Guest- Sh. A. K. Narang (Head- Safety, Health, Env. & Public Awareness, Heavy Water Board, Department of Atomic Energy, Govt. of India)
	4	Sh. Surja Ram Ji Meel, Chairman, SKIT Jaipur
	5	Prof. (Dr.) S.L. Surana, Director (Acad.), SKIT Jaipur
	6	Sh. Jaipal Meel, Director SKIT Jaipur
	7	Prof. (Dr.) Ramesh Kumar Pachar, Principal, SKIT Jaipur
	8	Prof. Dheeraj Joshi , HOD Mechanical
	9	Prof. Ashish Nayyar, Principal Coordinator
<b>Call for taking seat at the dias-</b> Sh. Ajitabh Sharma, Sh. A. K. Narang, Dr. Golo J. Pilz, Sh. Surja Ram Meel, Prof. S.L. Surana, Sh. Jaipal Meel, Prof. Ramesh Kumar Pachar, Prof. Dheeraj Joshi, Prof. Ashish Nayyar		
09:12-09:17 (5 min)	<b>Felicitation of Guest</b>	
	1	Chief Guest (Sh. Ajitabh Sharma) (Shawl & Sapling by Sh. Surja Ram Ji Meel)
	2	Guest of honor (Dr. Golo J Pilz) (Shawl & Sapling by Prof. S. L. Surana)
3	Presiding Guest (Sh. A. K. Narang) (Shawl & Sapling by Sh. Jaipal Meel/ Prof. Ramesh Kumar Pachar)	
09:18-09:23 (5 min)	Welcome note by Sh. Surja Ram ji Meel	
09:24-09:29 (5 min)	About Conference by Principal Coordinator (Prof. Ashish Nayyar)	
09:30-09:44 (15 min)	Introductory speech by the Prof. S.L. Surana-about present energy scenario	
09:45-09:46	<b>Profile of Chief Guest and welcome on mic</b>	
09:47-09:56 (10 min)	Speech by Chief Guest (Sh. Ajitabh Sharma)	
09:57-10:06 (10 min)	Speech by Presiding Guest (Sh. A. K. Narang)	
10:07-10:12 (5 min)	Speech by Director Sir (Sh. Jaipal Meel)	
10:13-10:14	Unveiling of the Proceeding	
10:15-10:17	<b>Re-arrangement of dias</b>	
10:18-10:20	Address by Prof. Ahmed Hamza H. Ali, Assiut University (Online)	
10:21-11:00 (40 min)	Plenary Talk-1 by Dr. Golo J. Pilz	
11:01-11:05	Vote of thanks by Prof. Dheeraj Joshi	
<b>High Tea</b>		

## 12. Glimpses of Conference



























### **13. Detailed Day to Day Report of Conference**

In the wake of the 4th International Conference on New and Renewable Energy Resources (ICONRER), orchestrated by the esteemed Department of Mechanical Engineering at the Swami Keshvanand Institute of Technology, Management and Gramothan in conjunction with the Institution of Engineers India (IEI) and the Department of Mechanical Engineering at Assuit University, Egypt, the grandeur of this landmark event shone brightly during November 2nd to 4th, 2023. This significant conference marks the fourth installment in the ICONRER Series, an epitome of scholarly discussions, technological advancements, and visionary insights in the realm of renewable energy. Prof. Ashish Nayyar acted as Principal Coordinator for the conference along with Dinesh Kumar Sharma, Ankit Agarwal and Dr. Chandan Kumar as convenors and Mr. Naveen Kumar Sain as organizing secretary.

#### **Day -1**

The inaugural ceremony of this distinguished conference was graced by the eminent presence of luminaries. Chief Guest Shri Ajitabh Sharma Ji, the Chairman and Managing Director of Jaipur City Transport Services Limited, Jaipur, along with the Presiding Guest Shri Anil K Narang Ji from the Department of Atomic Energy, Bhabha Atomic Research Centre, and the Guest of Honor Dr. Golo J. Pilz, President of IndiaCare Trust, Berlin, Germany, and Adviser on Renewable Energy at the Brahmkumaris Ashram, Abu Road, Rajasthan, added an aura of distinction to the event. Notable personalities such as Shri Surja Ram Ji Meel, Shri Jaipal Meel, Prof. S. L. Surana, Prof. Ramesh Kumar Pachar, Prof. R. K. Jain, Dr. Akhilendra Pratap Singh, and Shri Subir Karmakar Ji also graced the occasion with their presence.

The inaugural ceremony commenced with the auspicious Goddess Saraswati Vandana through the lighting of the lamp. Shri Surja Ram Ji Meel extended a warm welcome to all esteemed guests, participants, and students. His commendations applauded the organizers for the successful continuance of these conferences and their dedicated efforts to bring together exceptional minds from across the globe. He particularly praised the proactive step towards embracing sustainable practices within the conference itself, emphasizing the use of eco-friendly materials and the avoidance of single-use plastics.

Prof. Ashish Nayyar elucidated the significance of the ICONRER series, advocating the utilization of renewable energy resources for a sustainable future while introducing the conference.

Shri Ajitabh Ji, Chief Guest delivered enlightening insights, emphasizing the imperative need for sustainable solutions and motivating students to engage in the realms of renewable and sustainable energy, positioning India as a global leader. He very beautifully added comparison between the risks and uncertainty.

Thereafter Shri Anil K Narang Ji, Presiding Guest provided historical insights into the development of nuclear programs in India, highlighting the technological advancements in the field of nuclear energy. Dr. Golo J Pilz described the sustainable practices being followed at the brahmkumaris ashram Mount Abu in form of Solar cooking system to meet the cooking need and solar pv system to meet other energy needs in a sustainable way since past 25 years. He also mentioned about the installation of 1MW solar CSP based Thermal power plant to meet the electricity needs. He particularly emphasized on the power of positivity to make the things better and highlighted the need to opt sustainable practices to make Indian global guru.

Prof. Dheeraj Joshi (HOD ME, SKIT) proposed a formal vote of thanks for the inaugural session. In another sessions of the Day 1, Dr. Akhilendra Pratap Singh, Indian Institute of Technology, BHU Varanasi presented his research on the development of Homogenous Charged Compression Ignition (HCCI) engines. He mentioned the challenges and opportunities with HCCI engines. Shri Subir Karmakar Ji, Deputy General Manager, NTPC Limited delivered his keynote during conference.

## **Day - 2**

On the Day 2 of the conference, Prof. Dilip Sharma, Professor-HAG, Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur delivered his plenary talk on the Journey from IC engines to electric vehicles. He further added that technology of electric vehicle will be more mature in future and hybrid engines is the need of hour. He showed that transition of energy is towards improvement in H/C ration which will be infinite with hydrogen as a fuel. Hence Hydrogen is the ultimate future fuel. In another session of day 2, Dr. Ravindra Kumar Sharma, Bhabha Atomic Research Centre, Trombay presented his research on the development of energy storage technology with emphasis of capacitor energy storage technologies. He described the various challenges in the developments of different capacitors. He beautifully explained how capacitors hold the energy for high amount of energy even at small space. Afterwards, An industrial visit to IOCL operated Compressed Biogas Plant at Hingonia Gaushala Jaipur. The participants experienced the minute on the anaerobic digestion-based digesters biogas plant of nearly 3000 m<sup>3</sup> gas production using the cow dung available at gaushala. In addition to this, participants also visited the milking process and its cooling, pasteurization and packaging followed by a delightful conference lunch.

## **Day - 3**

On day 3 of the conference, Prof. PMV Subbaro enlightened the gathering with his knowledgeable talk on the development of sustainability indices. He explained the theory of energy to energy and explained the sustainable way to operationize the nature's blessings in form of Anna. In the same session, Dr. Narayan Lal Jain delivered his plenary talk on biofuels and its classifications. The discourse and

exchange of knowledge during these sessions undoubtedly set an impressive trajectory for the future of renewable energy, igniting a spirit of innovation and collaboration among the participants. The ICONRER conference series continues to be a beacon of knowledge, ushering in a sustainable and greener future for generations to come.

## 14. Media Coverage of Conference



# न्यू एंड रिन्यूएबल एनर्जी रिसोर्सेज' विषय पर एस्केआईटी में शुरु हुई अंतरराष्ट्रीय संगोष्ठी

### P3 Police Public Politics

जयपुर। बढ़ते पर्यावरण संकट और जलवायु परिवर्तन के संदर्भ में शिक्षाविद, शोधकर्ता, उद्योगकर्मी और नीति निर्माताओं के बीच संवाद स्थापित कर कुछ सार्थक समाधान प्राप्त करने की दिशा में जयपुर के स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान में 'न्यू एंड रिन्यूएबल एनर्जी रिसोर्सेज' विषय पर तीन दिवसीय अंतरराष्ट्रीय संगोष्ठी का शुभारंभ हुआ। संगोष्ठी के उद्घाटन समारोह में जेसीटीएसएल के चेयरमैन अजिताभ शर्मा मुख्य अतिथि के रूप में उपस्थित थे। उन्होंने कहा 'किसी भी समाधान को प्राप्त करने के लिए पर्सपेक्टिव बदलने की आवश्यकता है। हम कई बार एक

समस्या का समाधान करने के लिए अनेक अन्य समस्या खड़ी कर लेते हैं, इसलिए ऊर्जा सहित किसी भी समस्या का समाधान एकांगी रूप से नहीं देखकर समग्रता में खोजा जाना चाहिए, तभी उसका पूरा लाभ मिल सकता है। एस्केआईटी के चेयरमैन सुरजाराम मील और शैक्षणिक निदेशक प्रोफेसर एस एल सुराणा ने अपने उद्बोधन में ऐसे आयोजन की आवश्यकता पर बल देते हुए सबका उत्साहवर्धन किया। कार्यक्रम में भाभा एटॉमिक रिसर्च सेंटर से आए डॉ. ए.के. नारंग विशिष्ट अतिथि थे। उन्होंने कहा कि ऊर्जा न सिर्फ आंतरिक बल्कि अंतरराष्ट्रीय संबंधों को भी प्रभावित करती है और इसलिए हमें विकसित राष्ट्र बनने की दिशा में ऊर्जा के क्षेत्र में आत्मनिर्भर होने

की तीव्र आवश्यकता है। इससे पूर्व संगोष्ठी के मुख्य समन्वयक प्रोफेसर आशीष नैयर ने संगोष्ठी की विस्तृत जानकारी देकर सबका स्वागत किया। कार्यक्रम का आयोजन मेकेनिकल इंजीनियरिंग विभाग ने किया। इस अवसर पर संस्थान निदेशक जयपाल मील, प्रोफेसर रमेश कुमार पचार, प्रोफेसर आर.के. जैन, ब्रह्मकुमारी के नवीकरणीय ऊर्जा सलाहकार डॉ. गोलो पिल्लज, आईआईटी वाराणसी के डॉ. अखिलेंद्र प्रताप सिंह सहित अनेक प्रोफेसर और विधार्थी उपस्थित रहे। उद्घाटन कार्यक्रम के अंत में विभागाध्यक्ष प्रोफेसर धीरज जोशी ने सभी गणमान्य अतिथियों एवं प्रतिभागियों के प्रति आभार प्रकट किया।

## एसकेआईटी में अंतरराष्ट्रीय संगोष्ठी



जयपुर(सीमा सन्देश)। बढ़ते पर्यावरण संकट और जलवायु परिवर्तन के संदर्भ में शिक्षाविद्, शोधकर्ता, उद्योगकर्मी और नीति निमाताओं के बीच संवाद स्थापित कर कुछ सार्थक समाधान की दिशा में जयपुर के एसकेआईटी (स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एंड ग्रामोत्थान) में 'न्यू एंड रिन्यूएबल एनर्जी रिसोर्सेज' विषय पर तीन दिवसीय अंतरराष्ट्रीय संगोष्ठी का शुभारंभ हुआ। संगोष्ठी के उद्घाटन समारोह में जेसीटीएसएल के चेयरमैन अजिताभ शर्मा मुख्य अतिथि थे। उन्होंने कहा कि किसी भी समाधान को प्राप्त करने के लिए

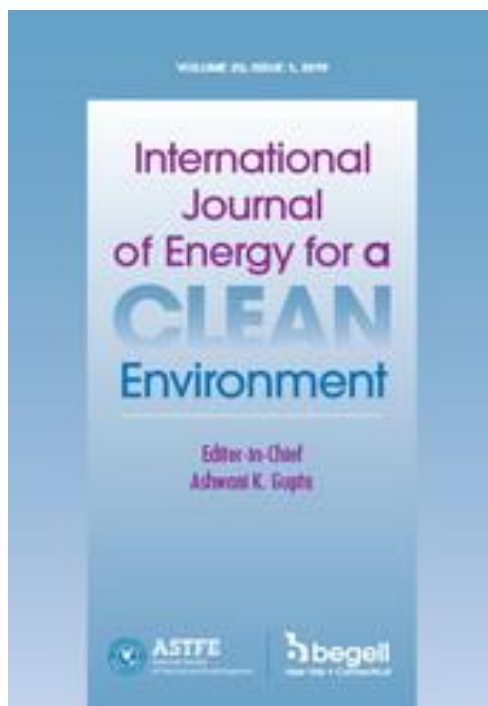
पर्सपेक्टिव बदलने की आवश्यकता है। हम कई बार एक समस्या का समाधान करने के लिए अनेक अन्य समस्या खड़ी कर लेते हैं, इसलिए ऊर्जा सहित किसी भी समस्या का समाधान एकांगी रूप से नहीं देखकर समग्रता में खोजा जाना चाहिए, तभी उसका पूरा लाभ मिल सकता है। एसकेआईटी चेयरमैन सुरजाराम मील और शैक्षणिक निदेशक प्रो. एसएल सुराणा ने ऐसे आयोजन की आवश्यकता पर बल देते हुए सबका उत्साहवर्धन किया। भाभा एटॉमिक रिसर्च सेंटर से आए डॉ. एके नारंग विशिष्ट अतिथि थे। ऊर्जा न सिर्फ आंतरिक बल्कि अंतराष्ट्रीय संबंधों को भी प्रभावित करती है और

इसलिए हमें विकसित राष्ट्र बनने की दिशा में ऊर्जा के क्षेत्र में आत्मनिर्भर होने की तीव्र आवश्यकता है। संगोष्ठी के मुख्य समन्वयक प्रो. आशीष नैयर ने सबका स्वागत किया। आयोजन मेकेनिकल इंजीनियरिंग विभाग ने किया। संस्थान निदेशक जयपाल मील, प्रो. रमेश कुमार पचार, प्रो. आरके जैन, ब्रह्मकुमारी के नवीकरणीय ऊर्जा सलाहकार डॉ. गोलो पिल्लज, आईआईटी वाराणसी के डॉ. अखिलेंद्र प्रताप सिंह सहित अनेक प्रोफेसर और विद्यार्थी उपस्थित रहे। उद्घाटन कार्यक्रम के अंत में विभागाध्यक्ष प्रो. धीरज जोशी ने सभी अतिथियों एवं प्रतिभागियों का आभार प्रकट किया।

## 15. Publications of ICONRER-2023

All Selected papers will be published in form a Book Series from reputed Publishers Springer/ Cambridge Scholars/ Elsevier (in communication). Some selected papers will be processed for consideration into following Special Issues of reputed journals.

1. International Journal of Energy for a Clean Environment (Scopus): Special Issue for ICONRER-2023
2. Journal of Mobility Technology by ARAI: Special Issue on "Driving Towards a Greener Tomorrow: Smart Use of Renewable Energy Resources for Sustainable Mobility





# Energy and Sustainability

(Proceedings of 4<sup>th</sup> International Conference on  
New and Renewable Energy Resources  
for Sustainable Future )

# ICONRER-2023

(November 02-04, 2023)

## Editors

Prof. Ashish Nayyar  
Dr. Manoj Kumar Sain

## Associate Editors

Dr. Chandan Kumar  
Mr. Dinesh Kumar Sharma  
Mr. Praveen Saraswat

Mr. Ankit Kumar Agarwal  
Mr. Naveen Kumar Sain

**Department of Mechanical Engineering  
Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur**

# Swami Keshvanand Institute of Technology, Management & Gramothan

(Accredited by NAAC with 'A++' Grade)

Approved by AICTE, Ministry of Education, Government of India, Recognized by UGC under Section 2(f) of the UGC Act, 1956, Affiliated to Rajasthan Technical University, Kota

## ICONRER-2023

The 4th International Conference on “New and Renewable Energy Resources for Sustainable Future” (ICONRER-2023) organized by Department of Mechanical Engineering of Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur (India) in collaboration with Department of Mechanical Engineering, Assiut University, Egypt and Institution of Engineers (India) during Nov 02-04, 2023. This scientific dialogue aims to provide a platform where scientists, researchers, academicians, industry experts, new aspirants, as well as students of science and technology can come together and engage in fruitful exchange of views and ideas to pave way for “New and Renewable Energy Resources”.

The scope of this conference encompasses latest research outcomes pertaining to the “Energy” domain in the form of theoretical models, environmental impact, security and defense technology, innovative designs, enhancements and improvements in existing frameworks, sustainable technological advancement, societal welfare etc. Thus the conference intends to bring together the best minds from around the world to cover literally all aspects of energy technology from a multi-disciplinary perspective.



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ISBN: 978-81-954233-9-2



## 17.List of Papers Presented:

Paper ID	Authors	Title	Email ID
2	Monika Gupta	IoT Based Health Monitoring System With Disease Prediction Using ML	<a href="mailto:er.monikakatta@gmail.com">er.monikakatta@gmail.com</a>
3	Monika Gupta	DUAL AXIS SOLAR TRACKING OF SOLAR RADIATION FOR AGRICULTURE USAGE	<a href="mailto:er.monikakatta@gmail.com">er.monikakatta@gmail.com</a>
5	Maanat Bhadani and Arshi Banu P S	Feasibility studies and wind turbine selection for residential applications of the city Surat, India	<a href="mailto:arshi.banu@gmail.com">arshi.banu@gmail.com</a>
6	Rajiv Kumar and Mamraj Singh	Investigation of the supercapacitor uses of ZnFe <sub>2</sub> O <sub>4</sub> /Co <sub>3</sub> O <sub>4</sub> /G composite	<a href="mailto:rkjiit@gmail.com">rkjiit@gmail.com</a>
7	Neha Rajas, Om Kudal, Gaurav Magar, Mohammad Bilal, Amol Marewar and Shivraj Pardeshi	Handmade Paper Formation from Onion Peels	<a href="mailto:kudalom04@gmail.com">kudalom04@gmail.com</a>
8	Dr Poonam Ojha and Dr. Swati Joshi	Emerging waste-to-energy technologies for sustainable municipal solid waste management: A review	<a href="mailto:poonam.ojha@skit.ac.in">poonam.ojha@skit.ac.in</a>
9	Arpit Yadav and Ranjay Das	Two Area Interconnected Automatic Generation Control System Design Using PSO with PID	<a href="mailto:ph20ee1003@cit.ac.in">ph20ee1003@cit.ac.in</a>
10	Abha Jain, Dr. Megha Gupta and Dr.Mithlesh Arya	Different Techniques to Model Smart Village using IoT	<a href="mailto:abha.jain@skit.ac.in">abha.jain@skit.ac.in</a>
11	Nilesh B.Totla and Sandip Langade	Thermal Analysis of Permanent Magnet Synchronous Motors (PMSM) Used In Electric Vehicles	<a href="mailto:nbtotla@mitaoe.ac.in">nbtotla@mitaoe.ac.in</a>
12	Pawan Kumar Kuldeep, Sandeep Kumar, Sunita Mahavar, Ekta Kumari and Nikita Choudhary	Investigation of a Vegetable Oil as Heat Transfer Fluid	<a href="mailto:phy.jitu.jpr@gmail.com">phy.jitu.jpr@gmail.com</a>



13	Amit Kumar Bansal and Madhukar Kumar	Comparative Analysis of SRC and ORC Systems for Waste Heat Recovery in Internal Combustion Engines	<a href="mailto:amit.bansal@skit.ac.in">amit.bansal@skit.ac.in</a>
14	Amit Kumar Bansal, Chandra Mohan Kumar and Sudesh Garg	Comparative Study on Waste Heat Recovery Devices: Efficiency, Applications, and Sustainability	<a href="mailto:amit.bansal@skit.ac.in">amit.bansal@skit.ac.in</a>
15	Swati Joshi and Poonam Ojha	Use of Nanotechnology for Pollution Treatment: A Review	<a href="mailto:swtojha@gmail.com">swtojha@gmail.com</a>
16	Nidhi Kumari Meena and Dr. Mamraj Singh	Narrow Blue Emission from Layered Lead (II) Bromide Perovskite Microdisks	<a href="mailto:nidhi.meena.2986@gmail.com">nidhi.meena.2986@gmail.com</a>
17	Himanshu Pandya	Earth Air Tunnel Heat Exchanger: A Review	<a href="mailto:erhimanshupandya@gmail.com">erhimanshupandya@gmail.com</a>
18	Raj Kumar, Kedar Bairwa and Amit Jhalani	Development and Improvement in Heat Transfer Behaviour and Friction Behaviour of Solar Air Heater	<a href="mailto:raj.kumar@skit.ac.in">raj.kumar@skit.ac.in</a>
19	Adarsh Maurya, Anay Mall, Akriti Na, Avneesh Tiwari and Abhay Srivastava	A Non-Toxic Substitute of Formaldehyde (Formalin) in Paints	<a href="mailto:avneeshtiwari100@gmail.com">avneeshtiwari100@gmail.com</a>
20	Chandra Mohan Kumar, Prem Singh, Amit Kumar Bansal, Madhukar Kumar, Sudesh Garg and Vinay Singh Marwal	A Survey of Recent Studies on PCM-to-Air Heat Exchangers for Building Free Cooling Applications	<a href="mailto:singhmohan85@gmail.com">singhmohan85@gmail.com</a>
21	Rajiv Kumar, Renu Sharma and Mamraj Singh	Synthesis and Characterization of Zinc Ferrite/Graphene Nanosheets Composite for supercapacitor applications	rkjiit@gmail.com
22	Sandeep Patil, Dr. Nitish Kumar Gautam and Dr. Rupesh Patil	Investigations on Load Capacities at the Nozzle Junctions with Pressure Vessels	<a href="mailto:platinumsp26@gmail.com">platinumsp26@gmail.com</a>
23	Pratham Nagarhalli, Prathmesh Deshmukh, Ansh Mittal and Amol Kolhe	Design And Development Of Vertical Axis Wind Turbine	<a href="mailto:prathmesh.deshmukh@mitaoe.ac.in">prathmesh.deshmukh@mitaoe.ac.in</a>
24	Chandan Kumar	Design Optimization of an Outdoor Air Purifier Using	<a href="mailto:chandan21.dstte@bihar.gov.in">chandan21.dstte@bihar.gov.in</a>

		Computational Fluid Dynamics Analysis	
25	Vignesh Manivannan	EXPERIMENTAL STUDY ON FRESH CONCRETE PROPERTIES OF PCC WITH PARTIAL REPLACEMENT OF M-SAND BY ECOSAND	<a href="mailto:vigneshmanivannan01@gmail.com">vigneshmanivannan01@gmail.com</a>
26	Vignesh Manivannan	Investigation of voltage storage capacity for the variation of electrode materials in microbial fuel cells with experimentation and mathematical modelling	<a href="mailto:vigneshmanivannan01@gmail.com">vigneshmanivannan01@gmail.com</a>
27	Sumit Taneja	Ethanol as an Optimal Alternative Engine Fuel - An experimental study on alcohol-gasoline blends in SI engine	<a href="mailto:sumit4088@gmail.com">sumit4088@gmail.com</a>
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39	22ESKME016	Goutam Sharma	ME	B.Tech	9541615659	B221229@skit.ac.in
40	22ESKME017	Hana Kazi	ME	B.Tech	8239361496	B221048@skit.ac.in
41	22ESKME018	Hardik Babbar	ME	B.Tech	8209000978	B220532@skit.ac.in
42	22ESKME019	Himanshu Rao	ME	B.Tech	8295646378	B220379@skit.ac.in
43	22ESKME020	Irfan Khan	ME	B.Tech	7231089794	B221139@skit.ac.in
44	22ESKME021	Jaswant Singh Meena	ME	B.Tech	9024831685	B221468@skit.ac.in
45	22ESKME022	Kartik	ME	B.Tech	8221880849	B220375@skit.ac.in
46	22ESKME023	Kaushalendra Sehgal	ME	B.Tech	7412851547	B220756@skit.ac.in
47	22ESKME024	Khushiram Choyal	ME	B.Tech	9680773646	B221469@skit.ac.in
48	22ESKME025	Krishna Chaturvedi	ME	B.Tech	6378458849	B221122@skit.ac.in
49	22ESKME026	Kshitiz Joshi	ME	B.Tech	7878692346	B221383@skit.ac.in
50	22ESKME027	Madhvendra Singh Asawat	ME	B.Tech	9024634143	B221470@skit.ac.in
51	22ESKME028	Mahesh Jat	ME	B.Tech	7877410591	B221131@skit.ac.in
52	22ESKME030	Manish	ME	B.Tech	6377916719	B221385@skit.ac.in
53	22ESKME031	Manthan Akar	ME	B.Tech	8955226028	B221394@skit.ac.in
54	22ESKME034	Nitish Gupta	ME	B.Tech	8000870996	B221484@skit.ac.in
55	22ESKME035	Piyush Saini	ME	B.Tech	8955106223	B220645@skit.ac.in
56	22ESKME036	Prashant Godara	ME	B.Tech	7850826802	B221386@skit.ac.in
57	22ESKME040	Shamsher	ME	B.Tech	8307646004	B221178@skit.ac.in
58	22ESKME041	Shashank Sharma	ME	B.Tech	9660933788	B220809@skit.ac.in
59	22ESKME042	Shivam Singh	ME	B.Tech	9893025863	B220382@skit.ac.in
60	22ESKME043	Shubh Chugh	ME	B.Tech	6367411811	B220806@skit.ac.in
61	22ESKME045	Tushar Bhola	ME	B.Tech	7073283801	B221388@skit.ac.in
62	22ESKME046	Vikram	ME	B.Tech	7597059217	B221210@skit.ac.in

## 19. Sample Certificates

  
असतो मा सद्गमय



4<sup>th</sup> INTERNATIONAL CONFERENCE ON  
“New and Renewable Energy Resources  
for Sustainable Future”  
**ICONRER-2023**  
(November 02-04, 2023)  
Organized by  
Department of Mechanical Engineering,  
Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur  
*In Collaboration with*  
Department of Mechanical Engineering, Assiut University, Egypt & Institution of Engineers, India (IEI)

  
اَللّٰهُمَّ صَلِّ وَسَلِّمْ عَلٰى رَسُوْلِكَ  


### ***Certificate of Appreciation***

This certificate of appreciation is presented to  
**Dr. Golo J. Pilz**  
Adviser Renewable Energy, Brahma Kumaris & World Renewal Spiritual Trust, Mount Abu,  
President, India Care Trust, Berlin-Germany

for his outstanding contribution as **Keynote Speaker** at the International Conference on  
“**New and Renewable Energy Resources for Sustainable Future (ICONRER-23)**”

 Mr. Jaipal Meel (Director)	 Dr. S. L. Surana (Director Academics)	 Dr. Ramesh Kumar Pachar (Principal)	 Dr. Ashish Nayyar (Convener)
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असतो मा सद्गमय



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اَللّٰهُمَّ صَلِّ وَسَلِّمْ عَلٰى رَسُوْلِكَ  


### ***Certificate of Appreciation***

This certificate of appreciation is presented to  
**Prof. Ahmed Hamza H. Ali**  
Faculty of Engineering, Assiut University, Assiut (Egypt)

for his outstanding contribution as **Keynote Speaker** at the International Conference on  
“**New and Renewable Energy Resources for Sustainable Future (ICONRER-23)**”

 Mr. Jaipal Meel (Director)	 Dr. S. L. Surana (Director Academics)	 Dr. Ramesh Kumar Pachar (Principal)	 Dr. Ashish Nayyar (Convener)
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**Certificate of Participation**

This is to certify that Prof. / Dr. / Mr. / Ms. .... **Mr. Sandeep Shukla**.....  
 of..... Malaviya National Institute of Technology (MNIT, Jaipur)..... presented a paper  
 with title **Exploring the Feasibility of Using Coal Dust as a Desiccant to Improve the**.....  
**Effectiveness of Evaporative Cooling System**.....in the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Prof. S. L. Surana  
 (Director Academics)

Prof. Ramesh Kumar Pachar  
 (Principal)

Prof. Ashish Nayyar  
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**Certificate of Participation**

This is to certify that Prof. / Dr. / Mr. / Ms. .... **Hetal Purohit**.....  
 of..... Lokmanya Tilak College of Engineering, Koparkhairane, Navi Mumbai..... presented a paper  
 with title **Natural Fiber Reinforced Polymer Matrix Composites for Fused Deposition**.....  
**Modelling Application**.....in the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Prof. S. L. Surana  
 (Director Academics)

Prof. Ramesh Kumar Pachar  
 (Principal)

Prof. Ashish Nayyar  
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**Certificate of Participation**

This is to certify that Prof. / Dr. / Mr. / Ms. .... **Mr. BHOMESH SINGH**.....  
 of..... Malaviya National Institute of Technology (MNIT, Jaipur)..... presented a paper  
 with title **Advancements in Greenhouse Drying Technology: A Comprehensive Review**.....  
 .....in the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Prof. S. L. Surana  
 (Director Academics)

Prof. Ramesh Kumar Pachar  
 (Principal)

Prof. Ashish Nayyar  
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**Certificate of Participation**

This is to certify that Prof. / Dr. / Mr. / Ms. .... **Mr. Anay Mall**.....  
 of..... Shri Ramswaroop Memorial College of Engineering and Management, Lucknow... presented a paper  
 with title ..... **A Non-Toxic Substitute of Formaldehyde (Formalin) in Paints**.....  
 .....in the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Prof. S. L. Surana  
 (Director Academics)

Prof. Ramesh Kumar Pachar  
 (Principal)

Prof. Ashish Nayyar  
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**Certificate of Appreciation**

This certificate of appreciation is proudly presented to

**Dr. Chandan Kumar**

Associate Professor, Department of Mechanical Engineering

for his valuable contribution and dedication as **Convener** at the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Dr. S. L. Surana  
 (Director Academics)

Dr. Ramesh Kumar Pachar  
 (Principal)

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**Certificate of Appreciation**

This certificate of appreciation is proudly presented to

**Mr. Ankit Agarwal**

Associate Professor, Department of Mechanical Engineering

for his valuable contribution and dedication as **Convener** at the International Conference on  
 “New and Renewable Energy Resources for Sustainable Future (ICONRER-23)”

Mr. Jaipal Meel  
 (Director)

Dr. S. L. Surana  
 (Director Academics)

Dr. Ramesh Kumar Pachar  
 (Principal)

Dr. Ashish Nayyar  
 (Convener)

## **20. Words of Acknowledgement**

We extend our sincere gratitude on behalf of Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT Jaipur) and the Department of Mechanical Engineering to all speakers and participants who devoted their valuable time to share their research during the ICONRER 2023. Hosting this conference at SKIT Jaipur has been a pleasure, and we were fortunate to welcome eminent individuals from academia, industry, and research in the field of renewable energy.

Our heartfelt thanks to international resource persons Prof. Ahmed Hamza and Dr. Golo J. Pilz, as well as Dr. Anil Narang, Dr. Dilip Sharma, Mr. Ravindra, Dr. P. M. V. Subbarao, and Dr. Naryn Lal Jain, all respected figures in their respective fields. We appreciate their commitment and contributions to the conference, taking time from their busy schedules to travel to SKIT Jaipur.

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A heartfelt acknowledgment to Prof. Dheeraj Joshi, Prof. Ramesh Pachar, all faculty, and staff members for their unwavering support. Special recognition to Mr. Dineesh Sharma, Mr. Ankit Agarwal, Mr. Praveen Saraswat, Dr. Chandan Kumar, and Dr. Manoj Kr Sain for coordinating every aspect of the conference. Thanks to faculty coordinators, student members of the core committee, and other volunteers for their significant contributions.

Our gratitude extends to the House Manager, Purchase Officer, and Account Officer for their assistance in organizing the conference. Thanks to everyone whose dedication has contributed to making ICONRER 2023 a successful conference. Thank you very much!