



POORNIMA

COLLEGE OF ENGINEERING

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A Report on 2-day International Conference

TITLE AND DURATION: ‘Sustainable Energy, Environment and Green Technologies (ICSEEGT 2021)’ on 05-06 March 2021

SPONSORS: NIL

SUPPORTERS: NIL

ORGANIZING PARTNERS: NIL

PUBLISHER(S): IOP Conference Series: Earth and Environmental Science (EES) (Online ISSN: 1755-1315, Print ISSN:1755-1307).

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THEMES / TRACKS:

TRACK 1: SUSTAINABLE ENERGY	TRACK 2: ENVIRONMENT	TRACK 3: GREEN TECHNOLOGIES
<ul style="list-style-type: none">• Energy efficiency and rationale use of energy• Renewable Energy• Sustainable Technologies for Energy Conservation• Heating, Ventilation and Air Conditioning (HVAC)• Computational Models for Sustainable Development• Energy Efficient Designs and Standards• Renewable Energy Supply and Technologies• Energy Management, Policies, Economics and Sustainability• Smart Grid/ Smart City/ Smart Mobility• Energy and the Environment• Energy Management Systems• Sustainable Solutions in Developing Countries• Sustainable Materials• Sustainable Development Goals (SDGs) and Green Energy• Energy and Health	<ul style="list-style-type: none">• Environmental Chemistry and Pollution Control• Renewable Energy (Wind, Solar, Hydro, Geothermal)• Bio-energy, Biomass and Bio-fuels• Environmental Risk management• Waste Management and Waste Water Treatment• Low Carbon Economy and Society• Global Warming• Resource and Environment• Automation Applications in Environmental Technology• Greenhouse Gas Mitigation and Climate Change• Water Pollution and Control• Solid Waste Valorization	<ul style="list-style-type: none">• Energy Saving Technologies and Systems• Green Technologies in Information• Green Energy in Transport• Sustainable Cities, Architecture and Green Buildings• Green Nanotechnology• Greening Urbanization and Urban Settlements• Green Energy Trade for Economic Development• Green Design, Products and Manufacturing Processes• Green Power Systems and Smart Grids• Emerging and Advanced Green Energy Technologies• Green Energy Policies and Programmes• Rural Development through Green Energy


Dr. Mahesh Bundele
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Director
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OBJECTIVES:

The Conference on Sustainable Energy, Environment and Green Technologies (ICSEEGT-2021) organized by the department of Civil and Mechanical Engineering along with Applied Sciences, Poornima College of Engineering, Jaipur, India was the first International Conference on this theme. We are happy to that we could organize it with the publication support of SCOPUS indexed IOP Conference series Earth and Environmental Engineering. The objective of this conference was to bring together researchers from academia, government agencies, research laboratories and the corporate sector to present their research works carried out in sustainable energy, environment and green technologies.

EXPECTED OUTCOMES:

The conference will strengthen contacts and foster cooperation among accelerator-based science and application researchers, accelerator manufacturers and the coordinators of academic programs in the accelerator sciences, leading to a comprehensive review of the status of accelerator-based research and applications. The conference is expected to generate ideas that will form the basis of future ICSEEGT-2021 programs in the area of research and applications using accelerator technologies.

BROCHURE / POSTER / LEAFLET / FLYER:

International Conference on Sustainable Energy, Environment and Green Technologies (Virtual mode) (ICSEEGT-2021)

March 5-6, 2021

Supported by:




All accepted and presented paper will be published in IOP Conference Series: Earth and Environmental Science

ICSEEGT -2021 COMMITTEES

STEERING COMMITTEE

- Michael G Pecht, Professor, University of Maryland, USA
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- Ravindra Nagar, Professor, MNIT, Jaipur, India
- Sandeep Choudhary, Professor, IIT Indore, India
- S. S. Pabla, Professor, BSOU, Jaipur, India
- Dwarakadasa, Former Professor, IISc Bangalore, India
- V S Raja, Professor, IIT, Bombay, India
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- Balwan Sheshma, HoD, Civil, Poornima College of Engineering, Jaipur, India

CONVENERS

- Rekha Nair, Professor & Dean, Poornima College of Engineering
- Harshwardhan Singh Chouhan, Associate Professor, Department of Civil Engineering, Poornima College of Engineering, Jaipur, India
- Raj Kumar Satankar, Associate Professor, Department of Mechanical Engineering, Poornima College of Engineering, Jaipur, India

CALL FOR PAPERS

Prospective authors from academia as well as industry are invited to submit their full length papers in ICSEEGT 2021 conference, which have not been yet submitted/ published. Topics of interest for submission include, but are not limited to

**TRACK 1:
SUSTAINABLE ENERGY**

- Energy efficiency and rationale use of energy
- Renewable Energy
- Sustainable Technologies for Energy Conservation
- Heating, Ventilation and Air Conditioning (HVAC)
- Computational Models for Sustainable Development
- Energy Efficient Designs and Standards
- Renewable Energy Supply and Technologies
- Energy Management, Policies, Economics and Sustainability
- Smart Grid/ Smart City/ Smart Mobility
- Energy and the Environment
- Energy Management Systems
- Sustainable Solutions in Developing Countries
- Sustainable Materials
- Sustainable Development Goals (SDGs) and Green Energy
- Energy and Health

**TRACK 2:
ENVIRONMENT**

- Environmental Chemistry and Pollution Control
- Renewable Energy (Wind, Solar, Hydro, Geothermal)
- Bio-energy, Biomass and Bio-fuels
- Environmental Risk management
- Waste Management and Waste Water Treatment
- Low Carbon Economy and Society
- Global Warming
- Resource and Environment
- Automation Applications in Environmental Technology
- Greenhouse Gas Mitigation and Climate Change
- Water Pollution and Control
- Solid Waste Valorization

**TRACK 3:
GREEN TECHNOLOGIES**

- Energy Saving Technologies and Systems
- Green Technologies in Information
- Green Energy in Transport
- Sustainable Cities, Architecture and Green Buildings
- Green Nanotechnology
- Greening Urbanization and Urban Settlements
- Green Energy Trade for Economic Development
- Green Design, Products and Manufacturing Processes
- Green Power Systems and Smart Grids
- Emerging and Advanced Green Energy Technologies
- Green Energy Policies and Programmes
- Rural Development through Green Energy

IMPORTANT DATES

Last Date of Paper Submission: **Jan-10, 2021** Jan. 31, 2021

Acceptance Notification: **Jan-30, 2021** Feb. 10, 2021

Camera Ready Paper Submission: **Feb-15, 2021** Feb. 15, 2021

Last Date of Registration: **February 15, 2021**

REGISTRATION FEES

Category	Indian	International
Regular Author Academician/ Industry	9000 INR	250 USD
Regular Author Student (PG/Research Scholar)	6000 INR	150 USD
Regular Author Student (UG)	5500 INR	125 USD
Attendee / Co Author	5000 INR	100 USD
	60% of Respective Category 1000 INR	60% of Respective Category 50 USD

AUTHOR GUIDELINES

- All the papers should strictly be prepared as per author guidelines of IOP Conference series format.
- The manuscript (Max 10 pages) should be thoroughly checked for grammatical or typographical errors before submission.
- Authors should ensure that the similarity score of their research paper should not above 20%.
- All the reviewed manuscripts should be submitted in PDF format without authors name & affiliations using Easy Chair Conference Management Systems only.

Conference website → <https://www.poornima.org/internationalconference/>

Submission link → <https://easychair.org/conferences/?conf=icseegt2021>

CONFERENCE VENUE

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FOR FURTHER INFORMATION

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ORGANIZED BY

POORNIMA
COLLEGE OF ENGINEERING

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PROGRAM OUTLINE:

DAY-I: Friday, March 5, 2021

TIME (IST)	EVENT
11:30AM–11:45AM	Virtual Registration of Delegates
11:45AM–12:30PM	Inaugural Function <i>Session Link (Zoom):</i> https://tinyurl.com/au7k8as2
12:30PM–13:15PM	Keynote session-I <i>Session Link (Zoom):</i> https://tinyurl.com/au7k8as2 Title: <i>From Idea to innovation: The Shit Killer</i> Speaker: Dr. Damir Brdanovic, Professor of Sanitary Engineering, IHE Delft Institute for Water Education, The Netherlands
13:15PM–13:30PM	Session Break
13:30PM – 15:30PM	Technical Session-I: Emerging and Advance Technologies <i>Session Link (Google Meet):</i> https://tinyurl.com/session1t
	Session Chair: Dr. Salifu Tahiru Azeko, Tamale Technical University, Ghana Moderator: Dr. Payal Bansal, Poornima College of Engineering, Jaipur, Rajasthan India
	Technical Session-II: Sustainable Energy <i>Session Link (Google Meet):</i> https://tinyurl.com/session2t
15:30PM – 15:45PM	Session Chair: Dr. T.N. Verma, Maulana Azad National Institute of Technology Bhopal, India Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India
	Session Break
15:45PM–16:45PM	Keynote session-II <i>Session Link (Zoom):</i> https://tinyurl.com/au7k8as2 Title: <i>Advances in Materials for Green Energy Storage technologies</i> Speaker: Prof. M.V. Reddy, Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage (CETEES), Hydro-Québec, Canada

DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT
10:00AM - 12:00 PM	Technical Session-III: Green Technologies <i>Session Link (Google Meet):</i> https://tinyurl.com/session3t
	Session Chair: Dr. Pankaj Gupta, Malaviya National Institute of Technology Jaipur, India Moderator: Dr. Payal Bansal, Poornima College of Engineering, Jaipur, Rajasthan India
	Technical Session-IV: Environment <i>Session Link (Google Meet):</i> https://tinyurl.com/s

	Session Chair: Dr. Pradeep Kumar Gautam , National Institute of Technology, Meghalaya, India	Moderator: Mr. Vikas Sharma , Poornima College of Engineering, Jaipur, Rajasthan India
12:00PM - 12:15PM	Session Break	
12:15PM - 13:15PM	Keynote session-III Session Link (Zoom): https://tinyurl.com/au7k8as2 Title: Green technology, Innovative Nano-materials and Eco Sustainability Speaker: Dr. Alka Sharma , Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India	
13:15PM- 13:30PM	Session Break	
13:30PM - 14:30PM	Keynote session-IV Session Link (Zoom): https://tinyurl.com/au7k8as2 Title: Green Energy Technologies for Sustainable Development Speaker: Prof. K. S. Reddy , Indian Institute of Technology, Madras, India	
14:30PM- 16:00PM	Session Break	
16:00PM- 17:00PM	Valedictory Function Session Link (Zoom): https://tinyurl.com/au7k8as2	

PROGRAM SCHEDULE:

PROGRAMME SCHEDULE (DAY-I)

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13:15PM - 13:30PM	Session Break
13:30PM – 15:30PM	Technical Session-I: Emerging and Advanced Technologies Session Link (Google Meet): https://tinyurl.com/se3v4r4t

	Session Chair: Dr. Salifu Tahiru Azeko, Tamale Technical University, Ghana		Moderator: Dr. Payal Bansal, Poornima College of Engineering, Jaipur, Rajasthan India
	Time	Paper ID	Title
	13:35-13:45	ICSEEGT2021_T2_013	Impact of particulate matter on pre and post COVID locked down in the wards of urban Jaipur.
	13:45-13:55	ICSEEGT2021_T2_089	Suitability assessment of groundwater for irrigation in some villages of Sirsa district, Haryana (India)
	13:55-14:05	ICSEEGT2021_T2_090	Process optimization for biodiesel production from highly acidic hibiscus cannabinus (Deccan hemp) oil
	14:05-14:15	ICSEEGT2021_T1_092	Effect of expanded graphite on nitrate based phase change materials being used in thermal energy storage systems
	14:15-14:25	ICSEEGT2021_T1_094	A sustainability index tool to measure environmental performance of an Indian city
	14:25-14:35	ICSEEGT2021_T1_101	Impact of cleaner production and environmental management systems on sustainability: the moderating role of industry 4.0
	14:35-14:45	ICSEEGT2021_T2_106	Environmental carbon footprint assessment of a LHB railway coach.
	14:45-14:55	ICSEEGT2021_T2_108	Life cycle analysis for the production of urea through Syngas.
	14:55-	ICSEEGT2021_T1_11	Building and performance evaluation of novel La-based

	15:05	0	system in Gujarat, India
	15:05-15:15	ICSEEGT2021_T2_11 3	Experimental Investigation of Light Weight Concrete using Sintered Fly Ash Aggregates
	15:15-15:25	ICSEEGT2021_T1_10 0	Strategies for reduction of harmful emissions from diesel engines
13:30PM – 15:30PM	Technical Session-II: Sustainable Energy Session Link (Google Meet): https://tinyurl.com/session2t		
	Session Chair: Dr. T.N. Verma, Maulana Azad National Institute of Technology Bhopal, India		Moderator: Mr. Vikas Sharma, Poornima College of Engineering, Jaipur, Rajasthan India
	Time	Paper ID	Title
	13:35-13:45	ICSEEGT2021_T1_01 4	Measurement of Power in Distribution System using DTCWT based signal processing technique
	13:45-13:55	ICSEEGT2021_T1_01 6	Fabrication of pure Aluminium reinforced Graphene composite for heat sink applications
	13:55-14:05	ICSEEGT2021_T1_03 0	Women and social sustainability: A critical parametric evaluation of urban settings in developing countries.
	14:05-14:15	ICSEEGT2021_T1_03 5	A Multivariate Analysis of Factors influencing Green Energy
	14:15-14:25	ICSEEGT2021_T1_04 9	Change in fresh and rheological properties of mortar and concrete prepared using red mud - A review
	14:25-14:35	ICSEEGT2021_T1_05 5	Sustainable production of concrete using coir fibres
	14:35-	ICSEEGT2021_T1_05	A critical study to assess the

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	14:45	6	hurdles in adoption of sustainable walling materials in construction industry
	14:45-14:55	ICSEEGT2021_T1_06 3	CFD modelling and simulation of an indirect forced convection solar dryer
	14:55-15:05	ICSEEGT2021_T1_07 5	R&D Management as a Driver for Sustainable Agricultural Innovation and Adoption: Evidence from India
	15:05-15:15	ICSEEGT2021_T1_09 6	Influence of coco peat powder on the solar still productivity: An exergo-economic study
15:30PM – 15:45PM	TEA/COFFEE BREAK		
15:45PM - 16:45PM	Keynote session-II Session Link (Zoom): https://tinyurl.com/au7k8as2		
	Title: Advances in Materials for Green Energy Storage technologies Speaker: Prof. M. V. Reddy , Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage (CETEES), Hydro-Québec, Canada		

PROGRAMME SCHEDULE (DAY-II)

DAY-II: Saturday, March 6, 2021

TIME (IST)	EVENT		
10:00AM -	Technical Session-III: Green Technologies Session Link (Google Meet): https://tinyurl.com/session3t		
	Session Chair: Dr. Pankaj Gupta , Malaviya National Institute of Technology Jaipur, India		Moderator: Dr. Payal Bansal , Poornima College of Engineering, Jaipur, Rajasthan India
	Time	Paper ID	
	10:05-	ICSEEGT2021_T3_012	Review and Assessment

12:00 PM	10:15		Factors Associated with Green Building Rating Systems
	10:15-10:25	ICSEEGT2021_T3_022	Retrieving spatial pattern of urban using spectral ratios for major features of an urban ecosystem with satellite image processing
	10:25-10:35	ICSEEGT2021_T3_031	Impact of aspect ratio of floor plan on the energy performance of office rooms in New Delhi, India
	10:35-10:45	ICSEEGT2021_T2_033	Assessment of Green Practices for Sustainable Development for the Automotive Sector
	10:45-10:55	ICSEEGT2021_T3_034	Selection of Green Supplier in Automotive Industry: An Expert Choice Methodology
	10:55-11:05	ICSEEGT2021_T3_046	Effect of Nano particle based anti-stripping agent on moisture induced damage for bituminous concrete mixes
	11:05-11:15	ICSEEGT2021_T3_048	Composting: A better alternative of chemical fertilizer
	11:15-11:25	ICSEEGT2021_T2_083	Study of Stress-Strain Behaviour in Soil Nail Wall Using Flexible Facing
	11:25-11:35	ICSEEGT2021_T3_102	Life cycle based greenhouse gas footprint assessment of a Smartphone.
	11:35-11:45	ICSEEGT2021_T3_112	Technical evaluation of sustainable cement containing fly ash and carbide lime sludge
	Technical Session-IV: Environment Session Link (Google Meet): https://tinyurl.com/session4t		
10:00AM - 12:00 PM	Session Chair: Dr. Pradeep Kumar Gautam , National Institute of Technology, Meghalaya, India		Moderator: Mr. Vikas Sharma , Poornima College of Engineering, Jaipur, Rajasthan India
	Time	Paper ID	Title
	10:05-10:15	ICSEEGT2021_T2_024	Suitable sites identification for solid waste disposal using Geographic Information System and Analytical Hierarchy Process method in Debark town, north-western Ethiopia
	10:15-10:25	ICSEEGT2021_T2_042	Don't Transfer Waste, Transform waste: A Sustainable Approach Towards Zero W.

			During Hockey World Cup in Bhubaneswar, India
	10:25-10:35	ICSEEGT2021_T2_047	Construction & demolition waste as an alternative of rigid pavement material: A Review
	10:35-10:45	ICSEEGT2021_T2_059	A comparative study of two different type of metamaterial unit cells for miniaturization and multiband of microstrip patch antenna at 2.4 ghz frequency
	10:45-10:55	ICSEEGT2021_T2_065	Faecal sludge management in urban environment, Omni Processor an innovative technology
	10:55-11:05	ICSEEGT2021_T2_077	Developing and Implementing Environment Management Practices in Small & Medium Size Manufacturing Companies in India
	11:05-11:15	ICSEEGT2021_T2_087	Building a Low Carbon Indian Economy
	11:15-11:25	ICSEEGT2021_T2_091	Building Resilient Future: Information Technology and Disaster Management. A Malaysian Perspective
	11:25-11:35	ICSEEGT2021_T2_104	A Portable Water Pollution Monitoring Device for Smart City based on Internet of Things (IoT)
	11:35-11:45	ICSEEGT2021_T2_105	Environmental impact assessment of coal gasification in hydrogen production.
12:00PM - 12:15PM	<i>Session Break</i>		
12:15PM - 13:15PM	Keynote session-III <i>Session Link (Zoom):</i> https://tinyurl.com/au7k8as2		
	Title: <i>Green technology, Innovative Nano-materials and Eco Sustainability</i> Speaker: Dr. Alka Sharma, Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India		
13:15PM-13:30PM	<i>Session Break</i>		
13:30PM - 14:30PM	Keynote session-IV <i>Session Link (Zoom):</i> https://tinyurl.com/au7k8as2		

	Title: <i>Green Energy Technologies for Sustainable Development</i> Speaker: Prof. K. S. Reddy, Indian Institute of Technology, Madras, India
14:30PM-16:00PM	<i>Session Break</i>
16:00PM-17:00PM	Valedictory Function Session Link (Zoom): https://tinyurl.com/au7k8as2

INAUGURAL SESSION:

INAUGURAL SESSION Q-SHEET
Friday, March 5, 2021 Time: 11:30 AM to 12.30PM (IST)
Joining Link (Zoom): <https://tinyurl.com/au7k8as2>

Anchors: Sarveen Sachdeva & Kuldeep Sharma

S. No.	Activity	Duration	Time
1	Reporting and registration of delegates	10 Min	11:30AM-11:40AM
2	Gathering of audience in the virtual hall	05 Min	11:40AM-11:45AM
3	Arrival of guests & dignitaries-virtual	03 Min	11.45AM-11.48AM
4	Welcome of Dignitaries <ul style="list-style-type: none"> ● Dr. Damir Brdanovic, Professor of Sanitary Engineering, IHE Delft Institute for Water Education, The Netherlands-Chief Guest ● Mr. Suneel Rajavaram, Senior Global WASH Advisor, The Centre for Affordable Water and Sanitation Technology, Calgary, Albreta, Canada-Guest of Honour ● Dr. L. M. Das, Former Professor, Indian Institute of Technology, Delhi, India-Guest of Honour ● Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India ● Dr. Mahesh Bundeale, Director and Principal, PCE, 	03 Min	11:48AM-11:51AM


Dr. Mahesh Bundeale
 B.E., M.E., Ph.D.

	<p>Jaipur, India, General Chair, ICSEEGT 2021</p> <ul style="list-style-type: none"> ● Sh. Pankaj Dhemla, Vice Principal, PCE, Jaipur, India ● Dr. Rekha Nair, Convener, ICSEEGT 2021 ● Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021 ● Dr. Harshwardhan Singh Chouhan, Convener, ICSEEGT 2021 ● Dr. Narayan Lal Jain, Professor & Head, Mechanical Engineering, PCE, Jaipur, India ● Sh. Balwan Sheshma, Head, Civil Engineering, PCE, Jaipur, India 		
5	Request the dignitaries for lighting of lamp (Parallel Saraswati Vandana)	03 Min	11:51AM-11:54AM
6	<ul style="list-style-type: none"> ● Felicitation of Chief Guest Dr. Damir Brdanovic, Professor of Sanitary Engineering, IHE Delft Institute for Water Education The Netherlands, The Netherlands by Dr. Mahesh Bundeale, Director and Principal, PCE, Jaipur, India, General Chair, ICSEEGT 2021 ● Felicitation of Guest of Honour Dr. L. M. Das, Former Professor, Indian Institute of Technology, Delhi, India, by Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India ● Felicitation of Guest of Honour Mr. Suneel Rajavaram, Senior Global WASH Advisor, The Centre for Affordable Water and Sanitation Technology, Calgary, Alberta, Canada, by Sh. Pankaj Dhemla, Vice Principal, PCE, Jaipur, India 	03 Min	11:54AM-11:58AM
7	out the conference by Dr. Raj Kumar Satankar , Convener, ICSEEGT 2021	02 Min	11:58AM-12:00PM
8	Welcome address by Dr. Mahesh Bundeale , Director and Principal, PCE, Jaipur, India & General Chair, ICSEEGT 2021	05 Min	12:00PM-12:05PM
9	Address by Ar. Rahul Singhi , Director, Poornima Group, Jaipur, India	05 Min	12:05PM-12:10PM

10	Address by Guest of Honour Mr. Suneel Rajavaram , Senior Global WASH Advisor, The Centre for affordable water and Sanitation Technology, Calgary, Albreta, Canada	05 Min	12:10PM- 12:15PM
11	Address by Guest of Honour Dr. L. M. Das , Former Professor, Indian Institute of Technology, Delhi, India	05 Min	12:15PM- 12:20PM
12	Inaugural Address by Chief Guest of the Program Dr. Damir Brdanovic , Professor of Sanitary Engineering, IHE Delft Institute for Water Education The Netherlands	10 Min	12:20PM- 12:30PM
13	te of Thanks by Dr. Harshwardhan Singh Chouhan , Convener, ICSEEGT 2021	03 Min	12:20PM- 12:23PM
14	Group Photograph -Virtual	03 Min	12:23PM- 12:25PM

DETAILS OF RESOURCE PERSONS:

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Director (Infra), Poornima Group, Jaipur, India

Rahul Singhi,

Director, Poornima Group, Jaipur, India

General Chair:

Dr. Mahesh Bunde,

Principal & Director, Poornima College of Engineering, Jaipur, India

Organizing Chairs:

Pankaj Dhemla,

Vice Principal, Poornima College of Engineering, Jaipur, India

Dr. Rekha Nair,

Dean, Poornima College of Engineering, Jaipur, India

Dr. Narayan Lal Jain,

HoD, Mechanical Engineering, Poornima College of Engineering, Jaipur, India

Balwan Sheshma,

HoD, Civil Engineering, Poornima College of Engineering, Jaipur, India

Conveners

Dr. Rekha Nair,

Dean, Poornima College of Engineering, Jaipur, India

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Dr. Jagdish Lal Raheja,

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Manipal University, Jaipur, India

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Mody University, Laxmangarh, India

Dr. B. K. Panigrahi,

IIT Delhi, India

Dr. Rahul Raj Choudhary,

Govt. Engineering College Bikaner, India

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Department of Applied Sciences, PCE, India

Kuldip Sharma,

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Ankit Singh Beniwal,

Department of Civil Engineering, PCE, India

Vikas Sharma,


Department of Civil Engineering, PCE, India

KEYNOTE SPEAKERS:

TITLE OF THE TALK		From Idea to innovation: The shit killer	
SPEAKER:1	Dr. DamirBrdanovic Professor of Sanitary Engineering, IHE Delft Institute for Water Education The Netherlands		
BRIEF BIO SKETCH			


Abstract: Solutions for effective and sustainable faecal sludge management (FSM) represent a significant global need. Tremendous amounts of faecal sludge are produced globally on a daily basis from onsite sanitation: 2.7 billion people worldwide are served by onsite sanitation technologies and that number is expected to grow to 5 billion by 2030. FSM presents a global challenge. A new technological concept for sterilization and dehydration of excreta (faeces and urine) has been developed by IHE Delft and Tehnobiroad.o.o. The technology makes use of microwave generators that are part of a specially designed unit t

human waste into clean water and inert dry fertilizer. The concept has been successfully tested in the Netherlands, Slovenia, Kenya, and a pilot demonstration unit was successfully evaluated in the Jordan Valley in Jordan under a refugee camp context. This presentation describes the process of turning the initial idea to invention, and further, to innovation.

TITLE OF THE TALK	Advances in Materials for Green Energy Storage technologies	
SPEAKER:2	Prof. M. V. Reddy Professor, Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage (CETES), Hydro-Québec, Canada	
BRIEF BIO SKETCH		

Profile: Dr. M.V. Reddy, doctorate in the area of Materials Science from University of Bordeaux 1, ICMCB-CNRS/ENSCP, and France, is currently working as a Senior Researcher (level3) at Institute of Research Hydro-Québec, Centre of Excellence in Transportation Electrification and Energy Storage, Hydro-Québec, Montreal, Canada. He ranked no 1 highly cited researchers in Hydro Quebec (source: Scopus). Previously (from July 2003 to May 2019), he worked at National University of Singapore (NUS) at the Department of Materials Science and Engineering, Chemistry and Physics. For the last 20 years, he has been working on Materials for Energy Storage(cathodes, anodes, super capacitors and solid electrolytes), solar cells, electro catalysis and photo catalysis, including novel methods of synthesis ex: Molten salt method (top1 publication list (source: Scopus) and evaluation of functional properties of materials. He has published around 200 papers in various international journals. He conducted several workshops related to functional materials and Energy storage& Conversion and delivered 100 (Plenary (12), Keynote (12), Invited talks (62) and 18 contributed talks) at various conferences and conducted few workshops on Battery materials fundamentals, synthesis, and characterization techniques. Recently he selected for prestigious 2021 Battery Materials electrochemistry award from the Electrochemical Society of India, Indian Institute of Science (IISc), Bangalore, India(7th Prof. S.M. Mayanna Memorial Lecture).Recently he has been Invited as a honary Adjunct Professor Department of Mining and Materials Engineering McGill University. He has been a speaker in various Universities in India, Malaysia, Indonesia, Europe, USA, South Africa, Iran, Iraq, Morocco, and Africa. He also had given popular Materials Science and Engineering outreach talks to college and high school students all over the world. He is serving as editorial advisory board member in “Materials Research Bulletin and Journal of Energy Storage” (Elsevier) several other open access Journals (Materials, Energies and Molecules, MDPI) and Regional editor: Nanoscience & Nanotechnology-ASIA.

Abstract: In my talk, i will discuss various materials manufacturing, physical characterizations techniques, fundamentals and applications in area of Energy storage applications. Various chemical and physical process for nano and submicron sized materials and its characterization techniques like Rietveld refined X-ray diffraction, Neutron diffraction, X-ray absorption spectroscopy, X-ray photo electron spectroscopy , Rutherford Backscattering spectrometry, Scanning and Transmission electron microscopy (SEM/TEM), Raman/IR, density and BET surface area methods will be discussed. Importance of electro analytical studies like cyclic voltammetry, galvanostatic cycling and impedance spectroscopy techniques for testing high performance evaluations, ion conduction mechanisms of energy storage materials. Finally I will discuss the challenges and opportunities for green storage technology

TITLE OF THE TALK	Green technology, Innovative Nano-materials and Eco Sustainability	
SPEAKER:3	Dr. Alka Sharma Centre for Advanced Studies, University of Rajasthan, Jaipur, Rajasthan, India	
BRIEF BIO SKETCH		


Profile: Dr. Alka Sharma is currently, Vice Principal (Science), University Maharani College (one of the constituent colleges of University). Dr. Sharma's major areas of research interest include Corrosion Science; Bio-fabrication of Nano-composites, nano-materials and their industrial applications; innovation and designing in material science. To her credit, she has published 46 research papers of international repute. Her proclivity is to bring out some prototype(s) via innovation & designing in material science as DIC-Course Coordinator (CIMSID) [Certificate course in Innovation in Material Sciences for Inclusive Development], MHRD-Designing and Innovation Centre (DIC), CCT, University of Rajasthan, Jaipur, funded by MHRD, New Delhi.

She has published several books and is reviewer of prestigious journals in the field of corrosion and material science. She has been recipient of award & recognition (thrice) for Outstanding Contribution in Reviewing from the prestigious Journal – Corrosion Science, Elsevier).

Apart from various administrative responsibilities, she has also actively accomplished various assignments/duties in various capacities as and when assigned by University of Rajasthan, Jaipur.

Abstract: Nanoscience and nanotechnology is a powerful tool for host of processes in support of Sustainability and ecology conservation. Green-nanotechnology endeavors for bringing out products and processes that are safe, energy efficient and reduce waste with low impact on the environment. Green nanotechnology is also about manufacturing processes that are

economically and environmentally sustainable. Natural resources are potential source to fabricate nanomaterials which can be beneficiary tool for eco-sustainability. Nano-materials have multifold utility in numerous sectors such as eco-sustainability, health-care, pharmaceutical, industries etc. Nano-coating materials, nano-composites, multi-material nanoparticles (doped nano-particles) etc are some of the green-nanomaterials fabricated successfully and characterized by standard tools and techniques, viz., FT-IR, UV-Visible, FL spectroscopy, SEM, EDX, AFM, QCA, XRD.

TITLE OF THE TALK	Green Energy Technologies for Sustainable Development	
SPEAKER:4	Prof. K. S. Reddy Professor, Indian Institute of Technology, Madras, India	
BRIEF BIO SKETCH		

Profile: Dr. K. SRINIVAS REDDY obtained his PhD from Indian Institute of Technology Delhi in Energy Studies in 1999. He then joined National Institute of Technology Warangal in June 1999, after a brief service of about 4 years at NITW, he joined IIT Madras in April 2003 as an Assistant Professor. Presently, Dr. Reddy is a Professor of Mechanical Engineering at IIT Madras and he is also an honorary professor at University of Exeter, UK. He also served as an Adjunct Professor at CEERI-CSIR, Chennai during 2014-17

Prof. Reddy is a Fellow of the National Academy of Engineering (FNAE) and he is specialist in renewable energy with special research interests on concentrating solar power, energy efficiency and environment. He has 8 patent applications and more than 280 publications of which, 151 papers in reputed international journals, including five review articles on solar energy systems and energy storage. His co-authored book on “Sustainable energy and the environment: a clean technology approach” Published by Springer and book chapters on solar energy systems are popular among energy and environment community.

Prof. Reddy is actively involved in the implementation of solar thermal technologies for power generation and process heat applications through “Design-Development-Demonstration-Deployment (4-D)” approach. He has executed several research projects related to solar energy and energy & environment funded by various national and international agencies such as DST, MNRE, AICTE, RCUK, EPSRC, UKIERI and ICIMPACT. His work on estimation of thermal conductivity & thermo-physical properties and characterization of engineering materials significantly benefited the industrial associates for development of energy efficient thermal insulation materials

PLENARY TALK SPEAKERS: NIL

CONTENT DELIVERY / PRACTICAL SESSIONS: NIL

GLIMPSES OF PRESENTATIONS:



LIST OF PARTICIPANTS/REGISTERED/ATTENDED CANDIDATES:

S. No.	Certificate no	Presenter	Institute
1	ICSEEGT2021-AU-1001	Ms. Parveen parihar	Bhartiya skill development university, jaipur rajasthan, india
2	ICSEEGT2021-AU-1002	Ms. Manasa putrevu	Indian institute of technology bhubaneswar argul, khordha, pin - 752050, odisha, india
3	ICSEEGT2021-AU-1003	Dr. Muralithar an jothimani	Department of geology, arba minch university, ethiopia

Dr. Mahesh Bundele
B.E., M.E., Ph.D.

Director
Poornima College of Engineering
131-6, RIICO Institutional Area
Sitapura, JAIPUR

4	ICSEEGT2021 -AU-1004	Mr. Haresh bhupendra chodnekar	Indian institute of technology kharagpur, west bengal
5	ICSEEGT2021 -AU-1005	Dr. Rashmi kumari	National institute of technology hamirpur
6	ICSEEGT2021 -AU-1006	Mr. Ram vilas meena	Department of civil engineering, mnit jaipur, india
7	ICSEEGT2021 -AU-1007	Mr. Amanpreet tangri	Juit solan, himachal pradesh, india
8	ICSEEGT2021 -AU-1008	Dr. Sudarshan d. Kore	National institute of construction management and research (nicmar), pune, india
9	ICSEEGT2021 -AU-1009	Ms. Rupinder kaur	University business school, guru nanak dev university, amritsar, india
10	ICSEEGT2021 -AU-1010	Mr. Shubham goswami	Jaypee university of engineering and technology, guna
11	ICSEEGT2021 -AU-1011	Mr. Adwitiya patro	Deutsche gesellschaft für internationale zusammenarbeit (giz) gmbh, new delhi
12	ICSEEGT2021 -AU-1012	Ms. Asmita yadav	National institute of hamirpur,h.p.
13	ICSEEGT2021 -AU-1013	Mrs. Nameeta sharma	Arya college of engineering and it, kukas, jaipur, rajasthan, india
14	ICSEEGT2021 -AU-1014	Ms. Kirti katiyar	Jaypee university of engineering and technology, guna
15	ICSEEGT2021 -AU-1015	Dr. Hari prapan sharma	Gla university, 17km stone, nh-2, mathura- delhi road mathura, chaumuhan, uttar pradesh - india 281406
16	ICSEEGT2021 -AU-1016	Mrs. Ekta baranwal	Department of civil engineering, jamia millia islamia, new delhi-110025, india
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18	ICSEEGT2021 -AU-1018	Ms. Kavya venu pillai	College of engineering,pune
19	ICSEEGT2021 -AU-1019	Mr. S ramana kumar joga	School of electrical engineering, kiit deemed to be university, patia, bhubaneswar-751024
20	ICSEEGT2021 -AU-1020	Dr. Anil dutt vyas	Department of civil engineering, manipal university jaipur, 303007 india
21	ICSEEGT2021 -AU-1021	Mr. Sheikh	Universiti tun hussein malaysia

		kamran abid	
22	ICSEEGT2021 -AU-1022	Dr. Timothy malche	Manipal university jaipur, dehmi kalan, off jaipur-ajmer expressway, jaipur, rajasthan 303007
23	ICSEEGT2021 -AU-1023	Dr. Amol d pawar	Nicmar 25/1 n i a post office balewadi pune ms india411045
24	ICSEEGT2021 -AU-1024	Mr. Aditya joshi	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
25	ICSEEGT2021 -AU-1025	Mr. Krishanve er singh	Gla university, mathura, uttar pradesh, india
26	ICSEEGT2021 -AU-1026	Mr. Sandeep kumar rajput	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
27	ICSEEGT2021 -AU-1027	Dr. Pradeep kumar gautam	Nit meghalaya
28	ICSEEGT2021 -AU-1028	Dr. Dr. Kishore kumar	Gla university, mathura india
29	ICSEEGT2021 -AU-1029	Mr. Manjunat ha swamy k m	Siddaganga institute of technology, tumkur, karnataka, india, pin: 572103
30	ICSEEGT2021 -AU-1030	Dr. Lokesh vijayvargy	Jaipuria institute of management jaipur, 1- bambala institutional area, pratap nagar, sanganer, jaipur, rajasthan, india-302033
31	ICSEEGT2021 -AU-1031	Mr. Vivek singh	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
32	ICSEEGT2021 -AU-1032	Mr. Prashant kumar	Department of applied mechanics, motilal nehru national institute of technology allahabad, prayagraj, india
33	ICSEEGT2021 -AU-1033	Dr. Anil dutt vyas	Manipal university jaipur
34	ICSEEGT2021 -AU-1034	Dr. Lokesh vijayvargy	Jaipuria institute of management jaipur, 1- bambala institutional area, pratap nagar, sanganer, jaipur, rajasthan, india
35	ICSEEGT2021 -AU-1035	Mr. Akshay dhawan	Nicmar delhi ncr
36	ICSEEGT2021 -AU-1036	Ms. Priyanka	Siddaganga institute of technology, tumkuru-572103, karnataka.
37	ICSEEGT2021 -AU-1037	Mr. Parul kumar	Govt. Dungar college, bikaner
38	ICSEEGT2021 -AU-1038	Mr. Pankaj dhemla	Malviya national institute of technology, jaipur, india

39	ICSEEGT2021 -AU-1039	Dr. Vipin sharma	Sagar institute of research and technology, bhopal
40	ICSEEGT2021 -AU-1040	Mr. Mohamm ad nurul hassan reza	Multimedia university, faculty of management, persiaran multimedia, cyberjaya, selangor, malaysia
41	ICSEEGT2021 -AU-1041	Mr. Piyushku mar m. Mistri	Government engineering college, modasa, dist. Aravalli, gujarat, india
42	ICSEEGT2021 -AU-1042	Mr. Hardik saxena	India

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 Dr. Raj Kumar Satankar Convener, ICSEEGT 2021	 Dr. Mahesh M. Bunde General Chair, ICSEEGT 2021

VALEDICTORY SESSION:

International Conference on Sustainable Energy, Environment and Green Technologies (ICSEEGT 2021)
VIRTUAL MODE
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CHIEF GUEST
Prof. K. S. Reddy
IIT Madras, India

GUEST OF HONOUR
Dr. B. Ravindra
IIT Jodhpur, India

VALEDICTORY SESSION
Day & Date : Saturday, March 6, 2021 • Time: 16.00PM-17.00PM (IST)

Prof. (Dr.) Mahesh M. Bundeale
Director & Principal, PCE, Jaipur, India
General Chair, ICSEEGT 2021

Ar. Rahul Singhi
Director, Poornima Group, Jaipur, India
Patron, ICSEEGT 2021

Mr. Pankaj Dhemla
Vice Principal, PCE, Jaipur, India
Organizing Chair, ICSEEGT 2021

HEAD OF DEPARTMENTS

Prof. (Dr.) Narayan Lal Jain
HOD, ME, PCE, Jaipur, India

Mr. Balwan Sheshma
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Dr. Rekha Nair
Convener, ICSEEGT 2021

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Convener, ICSEEGT 2021

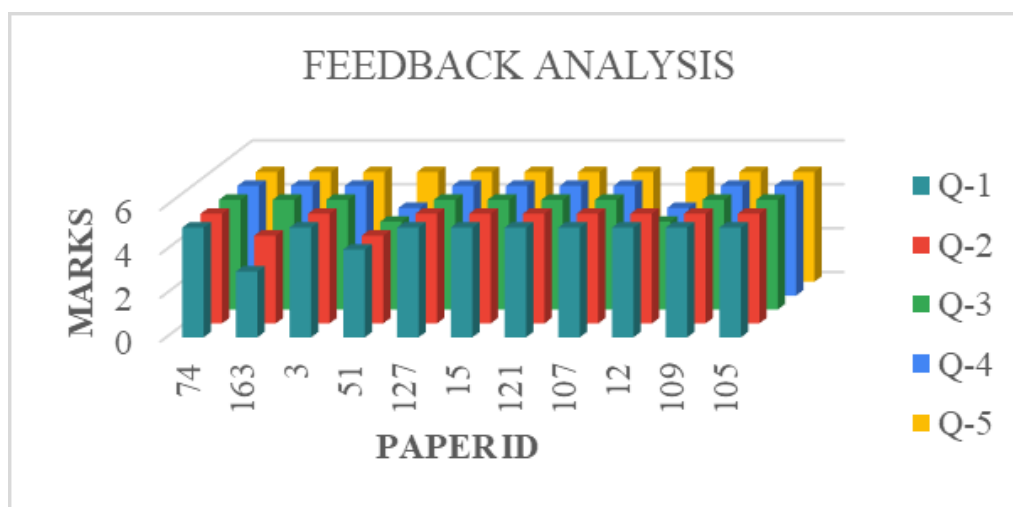
To join the Valedictory Session on **zoom** **f** **LIVE**

S. No	Event	Duration	Time
1	Reporting of Delegates-On Zoom link	15 Min	16:00PM-16:15PM
2	Welcome of dignitaries <ul style="list-style-type: none"> • Prof. K. S. Reddy, Indian Institute of Technology Madras, India, Chief Guest • Dr. B. Ravindra, Indian Institute of Technology Jodhpur, India- Guest of Honour • Ar. Rahul Singhi, Director Poornima Group, Jaipur, India • Dr. Mahesh Bundeale, Director and Principal, PCE, General Chair, ICSEEGT 2021 • Mr. Pankaj Dhemla, Vice Principal, PCE, Jaipur, India 	03 Min	16:15PM-16:18PM
3	<ul style="list-style-type: none"> • Dr. Rekha Nair, Dean Academics, PCE, Jaipur, India, Convener, ICSEEGT 2021 • Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021 • Dr. Harsh Wardhan Singh Chouhan, Convener, ICSEEGT 2021 • Dr. Narayan Lal Jain, Professor & Head, Mechanical Engineering Department, PCE, Jaipur, India • Sh. Balwan Sheshma, Head, Civil Engineering Department, PCE, Jaipur, India 	02 Min	16:18PM: 16:20PM
4	• Felicitation of Chief Guest, Prof. K. S. Reddy, Indian Institute of Technology Madras, India by Dr. Mahesh Bundeale, Director and Principal, PCE, General Chair, ICSEEGT 2021	02 Min	16:20PM-16:22PM
5	• Felicitation of Guest of Honour Dr. B Ravindra, IIT Jodhpur by Ar. Rahul Singhi, Director, Poornima Group, Jaipur, India	03 Min	16:22PM-16:25PM
6	Welcome Address by Ar. Rahul Singhi, Director Poornima Group	03Min	16:25PM-16:28PM
7	Report by Dr Rekha Nair, Convener, ICSEEGT 2021	05 Min	16:28PM-16:33PM
8	Distribution of best paper Awards by Chief Guest & Guest of honour	05 Min	16:33PM-16:38PM
9	Participants Feedback	05 Min	16:38PM-16:43PM
10	Address by Dr. Mahesh Bundeale, General Chair, ICSEEGT 2021	10 Min	16:43PM-16:53PM
11	Address by Guest of Honour Dr. B. Ravindra, Indian Institute of Technology Jodhpur, India	02 Min	16:53PM-16:55PM
12	Address by Chief Guest Prof. K. S. Reddy, Indian Institute of Technology Madras, India	05 Min	16:55PM-17:00PM
	Vote of Thanks by Dr. Raj Kumar Satankar, Convener, ICSEEGT 2021		
	Group Photograph -Virtual		

FEEDBACK ANALYSIS:

Questions asked

1. How do you rate Keynote Speaker's talk?
2. Technical Sessions were informative and managed well.
3. The organization of the conference was?
4. Timely Information sharing with participants, and responses from the organizers.
5. Knowledge sharing during the conference?



SWOT ANALYSIS: Nil

BUDGET & ACTUALS:

S. NO.	EXPENDITURE	RATE	QUANTITY	AMOUNT (INR)
1	Session Chair Honorarium			12000
2	Best Paper Award			8050
3	Paper Publication Fee (@ 80 Dollar)	5200	42	218400
4	Souvenir Print	4000	3	12000
5	Inaugural Expenditure			
6	Other Expenditure			
		TOTAL EXPENDITURE		250450