


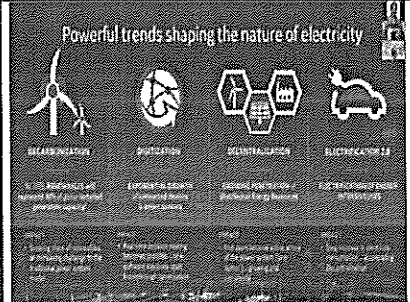



GRIET/6C/G/20-21

EVENT SUMMARY REPORT

Griet/Other institutes/Organization Address:	Gokaraju Rangaraju Institute of Engineering and Technology Bachupally, Kukatpally, Hyderabad, Telangana 500090				
Department	Mechanical Engineering & EEE Department	Professional Body	Institutional Body		
Nature of the Event (Workshop / Seminar / Guest Lecture / Tech Talk/FDP/GD/ Training Program / Quiz / Presentation/Conference/ Industry Visit/Any Co & Extracurricular Activities)	International Conference				
Title / Theme of the Event	2 nd International Conference on Design and Manufacturing aspects for Sustainable Energy				
Details of the Coordinator& Designation	1. Dr. K. Satyanarayana (Convenor) Associate Professor Mechanical Engineering 2. Dr. B.Phaneendra Babu (Convenor) Professor EEE Department				
Event Dates/Days	From	To	No. of Days		
	10-07-2020	12-07-2020	03		
Details of the Speaker / Guest Organization Address:	Prof. Bhim Singh IIT Delhi	Dr. L. Rama Krishna Scientist F, ARCI Hyderabad	Dr. Arvind Tiwari GE Global Research Niskayuna, USA	Dr. V. Krishna Scientist E, ARCI Hyderabad	
Participants (Teaching Faculty / Non-Teaching Faculty / Students)	No. of Faculty	No. of UG students	No. of PG Students	No. of outside participants	Total Participants
	20	15	13	145	193
Faculty Names & Designation					
	Faculty Name		Designation		
	Dr. Swadesh Kumar Singh		Professor		
	Dr. L. Jayahari		Professor		

	Dr. R.Raman Goud	Professor
	Dr. N Sateesh	Professor
	Dr.U.S. Jyothi	Assoc Prof
	Dr. Ram Subbaiah	Assoc Prof
	Sri B.Ch. Nooka Raju	Assoc Prof
	Sri Dusanapudi.S.Naga Raju	Assoc Prof
	Mr. K.Sunil Kumar Reddy	Assoc Prof
	Dr S. Ravi Sekhar	Asst Prof
	Mr. D. Eswaraiah	Asst Prof
	Dr. B.Tanya	Assoc Prof
	Ms. A. Anitha Lakshmi	Asst Prof
	Mr. J.Venkata Suresh	Asst Prof
	Mr. V.Balaji	Asst Prof
	Mr. S Sravan Sashank	Asst Prof
	Ms. Ch. Bandhavi	Asst Prof
	Mr. B.Krishna Mohan	Asst Prof
	Mr.D.Suresh Kumar	Asst Prof
	Ms.K Ramyasree	Asst Prof
Summary of the Event	ICMED 2020 followed double blind review with minimum of two reviewers for each paper submitted. Care has been taken for plagiarism of all the article. Licensed plagiarism tool (Turnitin and Plagiarism Checker X) have been used and ensured each article has less than 20% plagiarism The ICMED 2020 peer-reviewed and accepted papers have been edited as conference proceedings to be published with E3S Web of Conferences (Open Access proceedings in Environment, Energy and Earth Sciences), which is indexed by Scopus, CPCI (Web of Science), Google Scholar, CAS, DOAJ, EBSCO, ProQuest and Ei Compendex. As editors of this special issue of the ICMED 2020 proceedings, we wish to express our sincere gratitude to the plenary speakers, authors, participants, reviewers, program and technical committee members, and organizing members; who have contributed in organization of the conference and publication of this special issue. With high standard and high-quality submissions and presentations in the ICMED, we are very much sure, one day ICMED will become a leading conference in this specific academic area of 'Design and Manufacturing Aspects for Sustainable Energy'. A Total of 121 papers are published out of 230 papers received	

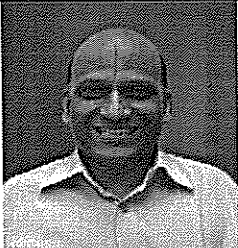

<p>IRG (in rupees)</p> <p>Deposited A/C no A/C name and date and other details</p> <p>(enclose proof-A/C statement)</p>	<p>585000 (Five lakhs Eighty-Five thousand only)</p> <p>A/C no :111201000205, Principal, GRIET, ICICI Miyapur, Hyderabad.</p> <p>Statement Attached</p>
<p>Expenditure (in rupees)</p> <p>(Enclose proof-bills)</p>	<p>554716 (Five lakhs Fifty four thousand seven hundred sixteen)</p> <p>Bills attached</p>
<p>POs attained with this Event (number and description)</p>	<p>a. Ability to apply knowledge of mathematics, science, and fundamentals of Mechanical engineering.</p> <p>c. Ability to design a system, component, or process to meet desired needs in Mechanical Engineering within realistic constraints</p> <p>d. Ability to identify, formulate, analyze and interpret data to solve engineering problems.</p> <p>f. Ability to understand the impact of Mechanical Engineering solutions in a global, economic and societal context.</p> <p>l. Ability to recognition of the need for and industry to engage in life-long learning.</p>
<p>Photographs of the event (Hard copy and Soft copy)</p>	<div>  <p>2nd INTERNATIONAL CONFERENCE ON DESIGN AND MANUFACTURING DESIGN AND MANUFACTURING ADAPTS FOR SUSTAINABLE ENTERPRISE 20-21 OCT 2016 SRMISTE</p> <p>Conference Report</p> <ul style="list-style-type: none"> Conference is successfully organized by Mechanical and EEE departments Received 220 papers across all the states of India and from Abroad. Accepted 119 papers (47% acceptance rate) Received papers across all the disciplines of the engineering, especially the advanced technologies like AI, ML and Big data Applications in Electrical and Mechanical Engineering. All the accepted and presented papers will be published in I3S web conference, EDP volumes - Indexed in both Scopus and WoS. Conference consists of <ul style="list-style-type: none"> Inauguration four Keynotes 11 paper presentation sessions SfAT 1621 is organized by EEE Department, Technically Co Sponsored by IEEE Hyderabad Section and IEEE IAG. </div> <div>  <p>Powerful trends shaping the nature of electricity</p> <p>DECARBONIZATION AUTOMATION DECENTRALIZATION ELECTRIFICATION</p> </div> <div>  <p>SCRATCH RESISTANT, PROTECTIVE COATINGS ON CANOPIES OF AIRCRAFTS THROUGH SOL-GEL COATINGS</p> <p>Implementation methodology</p> <p>Phase 1: Proof of concept on flat coupons of 6u-30 grade organic glass coupons (100 mm x 100 mm) and evaluation of project effectiveness.</p> <p>Challenge: To cure coatings at T < 50°C and yet obtain 6H scratch hardness and other properties with required optical properties.</p> <p>Phase 2: Demonstrate on curved coupons</p> <p>Challenge: Ensuring uniform coating deposition on curved coupons.</p> <p>Phase 3: Establishment of facilities at IAF identified location and demonstrate on actual canopy and Transfer of Technology</p> <p>Challenge: Design of suitable sol tank, dip coater and substrate holders</p> <p>Sponsored by: Indian Air Force Start Date: 28-05-2016 End Date: 19-06-2016 (POI): 0</p> <p>Accomplishments</p> <ul style="list-style-type: none"> Dip coating technique yields better optical than spray coating Coatings conform to 22 tests in PDYS Qualifying tests: Optical property (transmittance, haze, angular deviation, optical distortion); bulk mechanical property (ultimate tensile strength, relative elongation during break, thermal relaxation, resistance to crack propagation, impact strength, shear strength); mechanical property of coatings (scratch resistance, abrasion resistance, adhesion), along with weathering resistance, water absorption, glue joint strength, crazing resistance and silver stability. </div>

Proofs: 1.Certificates copies 2.Profile of Speaker 3.PPT/Material as applicable. etc.,	Attached

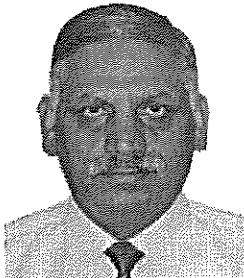
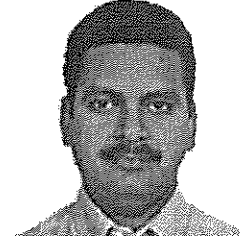

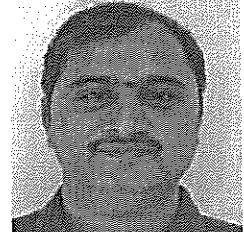
Signature of Coordinator

Signature of HOD

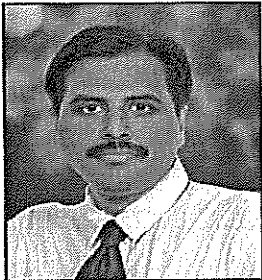
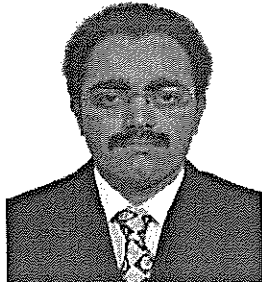
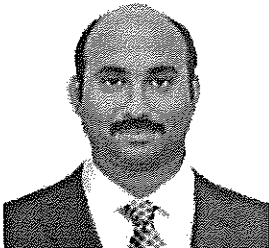
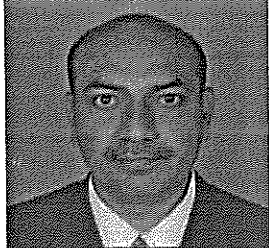
Chief Guest and Conference Chair at ICMED 2020

		Prof. K. Narasimhan Chief Guest, IIT Bombay
		Prof. Swadesh Kumar Singh, Conference Chair, GRIET

Invited talks at ICMED 2020

		Prof. Bhim Singh IIT Delhi
		Dr. L. Rama Krishna Scientist F, ARCI
		Dr. Arvind Tiwari GE Global Research Niskayuna, USA
		Dr. V. Krishna Scientist E, ARCI

**Conveners and Editors of ICMED
(10-12 July 2020)**

	<p style="text-align: center;">Dr.K.Satyanarayana Convener, GRIET</p>
	<p style="text-align: center;">Prof. B. Phaneendra Babu Convener, GRIET</p>
	<p style="text-align: center;">Prof.T.Suresh Kumar Editor, GRIET</p>
	<p style="text-align: center;">Prof.N.Sateesh Editor, GRIET</p>



CERTIFICATE — OF PARTICIPATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO

DAS MOHAMMED AREEF

AR INFRATECH

for participating and presenting a paper titled

**"FLEXURAL BEHAVIOUR OF STEEL FIBRE REINFORCED CONCRETE BEAMS MADE WITH COPPER SLAG
AS PARTIAL FINE AGGREGATE REPLACEMENT"**

*in "2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy - 2020"
(ICMED 2020) organized by Department of Mechanical Engineering and Electrical Engineering,
Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during 10-12 July 2020.*

Dr. Swadesh Kumar Singh
Conference Chair

Dr. K Satyanarayana
Convenor

Dr. Phaneendra Babu Bobba
Convenor



CERTIFICATE — OF PARTICIPATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Dr. K. Satyanarayana

Associate Professor, GRIET

*in recognition for your outstanding contribution as Governor
at "2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy - 2020"
(ICMED 2020) organized by Department of Mechanical Engineering and Electrical Engineering,
Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during 10-12 July 2020.*

J. Praveen

Dr. J Praveen
Principal, GRIET

Dr. Jandhyala N Murthy

Dr. Jandhyala N Murthy
Director, GRIET

#ICMED000002



CERTIFICATE — OF PARTICIPATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Dr N Lateesh

M.D. Professor, GRJET

acted as Session Chair

*at "2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy - 2020"
(ICMED 2020) organized by Department of Mechanical Engineering and Electrical Engineering,
Gokaraju Rangaraju Institute of Engineering and Technology (GRJET), Hyderabad during 10-12 July 2020.*

Dr. Swadesh Kumar Singh
Conference Chair

Dr. K Satyanarayana
Convenor

Dr. Phaneendra Babu Bobba
Convenor



CERTIFICATE — OF PARTICIPATION —

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Prof. Bhim Singh
J.J.T Delhi

has delivered a Keynote Talk on
"Solar Energy and its Integration to Grid"
in "2nd International Conference on Design and Manufacturing Aspects for Sustainable Energy - 2020"
(ICMED 2020) organized by Department of Mechanical Engineering and Electrical Engineering,
Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad during 10-12 July 2020.

Dr. Swadesh Kumar Singh
Conference Chair

Dr. K Satyanarayana
Convenor

Dr. Phaneendra Babu Bobba
Convenor



**2nd INTERNATIONAL CONFERENCE ON
DESIGN AND MANUFACTURING ASPECTS FOR SUSTAINABLE ENERGY**
(Formerly SEFET)
10-12 JULY 2020



Tracks (Not limited to the following)

- Power Electronics, Advanced Electrical Machines and Energy Efficient Drives
- Modelling, Simulation and Control of EV/HEV/FCV Systems
- Wired and Wireless Charging Infrastructure, Standards and Guidelines
- Machine Learning, Bigdata and IOT Applications to Sustainable Energy and Electric Transportation
- New Battery and supercapacitor Technologies, Battery Management Systems and Fuel cells for EVs
- Renewable Energy Systems, Smart Grids, Micro grids and HVDC Transmission
- Wide Band gap Power Devices
- Additive and Lean Manufacturing Technologies
- Optimization Methods and Alternate materials for Manufacturing
- Material Testing
- High Speed and Hybrid Machining
- Product Development: Effective Strategies for Moving from Engineering to Production
- Green Manufacturing Processes
- Manufacturing of Modern Material
- Numerical Modelling and Simulation
- Virtual Manufacturing and Concurrent Engineering
- Robotics and Autonomous Systems.

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Registration

Category	Rupee (₹)	USD (\$)
Faculty	8000	200
Industry	10000	250
Listener (Only Conference)	4000	80
Certificate for each Co-author	1000	40

All registrations are inclusive of access to all technical sessions, exhibits, conference kit, lunches, coffee breaks, journal publication fee.

For any clarification contact:

Dr. Satyanarayana: +91-9493888998,
Dr. Phaneendra Babu: +91-9873630937

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International Conference on Design and Manufacturing Aspects for Sustainable Energy (ICMED) focuses primarily on sustainable energy and design aspects in manufacturing process in manufacturing the components but encompasses perspectives from many engineering disciplines. This conference is the place for you to present your technical research and expertise, while also learning from and connecting with thousands of your peer researchers on a global level.

At International Conference on Design and Manufacturing Aspects for Sustainable Energy you'll experience basic discovery to translational application of new approaches and foster collaborations that engage stakeholders and partners not only from academia, but also from national laboratories, industry and government funding bodies. No other conference will provide you with broad, but salient perspectives and knowledge-sharing on technical advances within Sustainable Energy and design aspects in manufacturing.

Call for Papers

Conference Chairs

Dr. L Rama Krishna, ARCI
Dr. Swadesh Kumar Singh, GRIET

Conveners

Dr. Satyanarayana K, GRIET
Dr. B. Phaneendra Babu, GRIET

Editors

Dr. Suresh Kumar Tummala, GRIET
Dr. Sateesh N, GRIET

Full Paper Submission

17 May 2020

Notification of Acceptance

10 Jun 2020

Camera Ready Paper Submission

22 Jun 2020

Registration

22 Jun 2020

Conference Dates

10-12 Jul 2020

Publication

All accepted papers of ICMED 2020 will be published in **E3S Web of Conferences Proceeding (Open Access)** – Indexed in **Scopus**, **CPCI (Web of Science)**, Google Scholar, CAS, DOAJ, EBSCO, ProQuest, Ei Compendex.



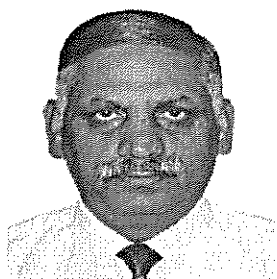
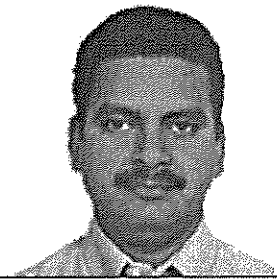
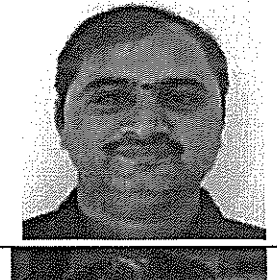

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Program Schedule

Invited Keynote Speakers				
10-07-2020 Friday	Speakers	Name & Affiliation	Topic	Time
		Prof. Bhim Singh IIT Delhi Conference Chair	Solar Energy and its Integration to Grid	10:00 to 11:00AM
		Dr L. Rama Krishna Scientist F ARCI Hyderabad	Application of Surface Engineering Technologies to Aerospace Sector: Challenges and Opportunities	11:30 to 12:30PM
		Dr V. Krishna Scientist E ARCI Hyderabad	Enhancing tool performance through advanced coatings	02:30 to 03:30PM
		Dr Arvind Tiwari GE Global Research Niskayuna, USA	Design of renewable energy systems for sustainable future	04:00 to 05:00PM

Gokaraju Rangaraju
Institute of Engineering and Technology
Bachupally, Hyderabad, INDIA



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Program Schedule

Inauguration				
10-07-2020 Friday	Name	Event	Affiliation	Time
	Dr B Phaneendra Babu	Introduction to the Programme and welcoming the participants and Invited Guests	Convener Conference GRIET, Hyderabad	9:00-9:15 AM
	Dr S K Singh	Opening Remarks	Dean R&D GRIET, Hyderabad	9:15-9:20 AM
	Dr J Praveen	Welcome Address	Principal GRIET, Hyderabad	9:20-9:25 AM
	Prof K Narasimhan	Welcome Address	Chief Guest IIT Bombay	9:25-9:35 AM
	Dr K Satyanarayana	Vote of Thanks	Convener Conference GRIET, Hyderabad	9:35-9:45 AM

Voice over by Dr. B. Phaneendra Babu & Dr. K. Satyanarayana

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Bachupally, Hyderabad, INDIA



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Program Schedule

Paper Presentation Through ZOOM

12-07-2020 Sunday	Session Chair	Timing	Paper ID
	Dr V S Reddy	10:00 to 12:30 PM	C1, C2, C3, C4 C5, C6, C7, C8, C9, C10, C11, C12
	Dr Mallikarjun Reddy	10:00 to 12:30 PM	C13, C14, C15 C16, C17, C18 C19, C20, C21 C22, C23, C24
	Dr V S Reddy	02:00 to 04:30 PM	C25, C26, C27 C28, C29, C30 C31, C32, C33 C34, C35, C36
	Dr Mallikarjun Reddy	02:00 to 04:30 PM	C37, C38, C39 C40, C41, C42 C43, C44, C45 C46, C47

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Bachupally, Hyderabad, INDIA



Program Schedule

Paper Presentation Through ZOOM

11-07-2020 Saturday	Session Chair	Timing	Paper ID	Zoom ID and Password
	Dr N Sateesh	10:00 to 12:00	06,11,36,44,51 52,62,65,73,78,90	Meeting ID: 825 9995 3279 Password: 507658
	Dr B Phaneendra Babu	10:00 to 12:00	10,13,15,16,17, 22,25,33,55,58	Meeting ID: 823 8557 8268 Password: 920454
	B Ch Nookaraju	10:00 to 12:00	08,19,20,34,35 75,81,86,92,100	Meeting ID: 836 858 1597 Password: 7PCSjR
	Dr T Suresh Kumar	10:00 to 12:00	63,67,68,69,82 83,85,87,93,94	Meeting ID: 504 184 6273 Password: 1X17fA
	Dr Ram Subbiah	02:00 to 04:00	03,04,05,26,27, 28,29,30,31,32	Meeting ID: 825 9995 3279 Password: 507658
	Dr B Phaneendra Babu	02:00 to 04:00	72,79, 95,97,98,99 101,102,103,104	Meeting ID: 823 8557 8268 Password: 920454
	Dr U S Jyothi	02:00 to 04:00	09,21,48,54,59, 66,70,71,84,88,	Meeting ID: 836 858 1597 Password: 7PCSjR

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