

GC-RASM 2021

2021 Global Conference on Recent Advances in Sustainable Materials

29 -30, July 2021 | Mangalore, Karnataka, India | www.gc-rasm.com

Call for Papers

GC-RASM 2021

The scope of the 2021 Global Conference on Recent Advancements in Sustainable Materials (GC-RASM 2021) is to provide a forum for researchers, scientists, academicians, scholars and practitioners around the world to present papers on recent developments in the broad fields of Materials Sciences and Engineering. The GC-RASM 2021 aims to bring together leading academic scientists, researchers and research scholars to exchange innovative and novel ideas, share field trial experiences in sustainability issues and to open a new window on the circumstances of the classical energy sources and their harmful impact on people, society and environment. We invite industrial and academic professionals from across the world in the fields of materials science and engineering to discuss and exchange ideas in the areas of world's great importance such as sustainable materials science and engineering.

Call for papers

GC-RASM 2021 invites full-length original research articles from research scholars, faculty, scientists and industry professionals from India and across the world. Research articles and review papers not exceeding twelve pages in a single column format shall be submitted. The manuscripts should not have been published or under review in any of the journals or conference proceedings. Further, the manuscript should contain the name, e-mail id of the corresponding author and affiliation of co-authors.

Softcopy of the full length manuscripts (in word or pdf format) shall be submitted to gc-rasm@ajiet.edu.in

OR

Please visit the website to submit through Elsevier's Editorial Manager Submission System. In this case, the e-mail submission is also mandatory.

Topics (but NOT limited to)

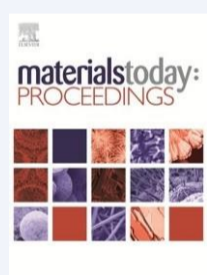
Advanced Materials

Innovative and sustainable materials
Biomaterials
Composite materials
Energy storage and conversion materials
Smart and intelligent materials
Functional materials
Nano materials
Building materials
Advances in structural materials and engineering
Materials in marine structures
Durability and corrosion of materials
Chemical materials
3D materials

Cryogenic materials
Ceramics, shape memory alloys and nanomaterials
Polymer science
Hydrogels and Phase Change Materials
Development of MAX phases and MXenes
Smart/Intelligent materials/Intelligent systems
Optical/Electronic/Magnetic materials
Automation, control and information technology
Magnetic materials and smart materials for specific applications
MEMS and structural control
Active materials in MEMS applications
Materials property and characterisation
Thin film technology

Manufacturing

Aerodynamics
Manufacturing systems and simulation
Machine design
Machinery dynamics
Nanotechnology
Mechanical dynamics and vibration
Mechanical design
Casting technology and equipment
Welding technology and equipment
Plastic processing technology
Cellular manufacturing
Advanced manufacturing processes
Laser processing
Vibration engineering



Publications

All the accepted papers will be published in the "Elsevier's Materials Today: Proceedings" - a journal specializing in the publication of conference proceedings.

The book of proceedings will be indexed in

SCOPUS | Conference Proceedings Citation Index (Thomson Reuters, Web of Science) | Inspec

Registration

Registration form for GC-RASM 2021 is available in the Downloads link. Duly filled-in registration form shall be sent to gc-rasm@ajiet.edu.in on or before 05, July 2021. Methods of payments have been given in the website. The payment of registration fee shall be made through internet banking, direct money transfer or credit/debit card facilities. Corresponding authors are strictly advised to send the copy of receipt/bill or payment proof with banking payment reference number along with the registration form.

Publication Partner



Contact details

Mobile & WhatsApp
(+91) 78680 02762

E-mail
gc-rasm@ajiet.edu.in

Website
www.gc-rasm.com

Important dates

Last date for paper submission	25, May 2021
Last date for acceptance	25, June 2021
Registration commencement	001, April 2021
Registration deadline	05, July 2021
Camera Ready Paper (CRP) submission	05, July 2021
Release of Conference schedule	06, July 2021
Conference date(s)	29 - 30, July 2021

Registration fee

	Indian authors (in Rs)	Foreign authors (in USD)
Graduate Students	7500	250
Research Scholars / Academicians	8000	250
Industry and Others	10000	300
Poster	4000	150

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Global Conference on
Recent Advancements in Sustainable Materials
(GC-RASM 2021)

29 - 30, July 2021 | A.J. Institute of Engineering & Technology, Mangalore, India

Program Schedule

Date	Time	Event
29.07.2021	09.30 am to 10.00 am	Inaugural Function Meeting link: https://meet.google.com/oxv-oabd-adu
29.07.2021	10.00 am	Keynote 1 Ts. Dr. Tan Chye Lih Head of Strategy and Risk management Division, SQM Faculty of Mechanical Engineering Technology, Universiti Malaysia Perlis (UNIMAP) Malaysia. Meeting link: https://meet.google.com/oxv-oabd-adu
29.07.2021	10.45 am	Keynote 2 Dr. Manoharan P A Dean - Innovations Chennai Institute of Technology & Director Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: https://meet.google.com/oxv-oabd-adu
		<small>A.J. Institute of Engineering & Technology Mangalore - 575 006</small>
		Session : CE01 (online) Meeting link: meet.google.com/anb-frvd-hir
		Session : CE02 (online) Meeting link: meet.google.com/jzc-nnrg-ipb
		Session : ME01 (online) Meeting link: meet.google.com/iyy-cjcd-qqu
		Session : ME02 (online) Meeting link: meet.google.com/uij-nynh-vzf
		Session : MSE01 (online) Meeting link: meet.google.com/ica-txgc-upw
		Session : PH01 (online) Meeting link: meet.google.com/nhp-skpa-tya
		Session : PH02 (online) Meeting link: meet.google.com/qaf-jumn-sjt

30.07.2021	10.00 am	<p style="text-align: center;">Keynote 3 Dr. Patel R N Department of Electrical Engineering National Institute of Technology Raipur Raipur, Chhattisgarh, India. Meeting link: https://meet.google.com/oxv-oabd-adu</p>
30.07.2021	10.45 am	<p style="text-align: center;">Keynote 4 Dr. Murugappan M Department of ECE Kuwait College of Science and Technology (A Private University) Kuwait. Meeting link: https://meet.google.com/oxv-oabd-adu</p>
30.07.2021	11.30 am to 05.10 pm	<p style="text-align: center;">Session : CH02 (online) Meeting link: meet.google.com/kvw-yfem-tpg</p>
		<p style="text-align: center;">Session : CE03 (online) Meeting link: meet.google.com/xem-exws-ngd</p>
		<p style="text-align: center;">Session : CE04 (online) Meeting link: meet.google.com/gcv-nnkc-vci</p>
		<p style="text-align: center;">Session : ME03 (online) Meeting link: meet.google.com/xsj-rtwd-jpo</p>
		<p style="text-align: center;">Session : ME04 (online) Meeting link: meet.google.com/zop-twor-zuk</p>
		<p style="text-align: center;">Session : PH03 (online) Meeting link: meet.google.com/vwt-yvdm-oac</p>
		<p style="text-align: center;">Session : PH04 (online) Meeting link: meet.google.com/jmc-rshz-emw</p>
		<p style="text-align: center;">Session : AME01 (online) Meeting link: meet.google.com/qfo-bjcq-sfq</p>
30.07.2021	05.15 pm	<p style="text-align: center;">Valedictory Function Meeting link: https://meet.google.com/oxv-oabd-adu</p>

CH - Applied Chemistry
 CE - Civil Engineering
 AME - Applied Mathematics & Electronics

PH - Applied Physics
 ME- Mechanical Engineering
 MSE- Materials & Metallurgical Engineering


 Principal
 A. J. Institute of Engineering & Technology
 Mandla - 575 006

Note

1. Start time given above indicates Indian Standard Time (IST).
2. Presentation will be conducted using Google Meet.
3. Participants can join their respective sessions by clicking the meet link given
4. Mode of presentation should be powerpoint presentation(ppt or pptx)
5. Duration of presentation: 10 minutes (presentation) + 5 minutes(Queries)
6. Participant using Google Meet will be admitted at any time prior to their scheduled time.
7. Participants are requested to follow the scheduled time; especially regarding the time for your talk.
8. Participants are requested to contact the respective session In-Charges for presentation related queries.
9. If any problem connecting to session, please text to the respective session In-Charges (Or) GC-RASM Whatsapp group during presentation date(s).


Principal
A. J. Institute of Engineering & Technology
Mangaluru - 575 006

Session: CH01

Date: 29.07.2021

Time: 11.30 am to 04.00 pm

Session In-charge: **Mrs. Prafulla K R**Session in-charge Contact Number: **+91 8618535744**Google Meet ID/Link: meet.google.com/ufm-nbfm-zvi

Time	Paper ID	Paper Title
11.30 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
11.50 am	RASM 1031	Structural analysis of surprisingly formed Cu II cubane through the specific cleavage of >C=N- and >C-S- of a Schiff base ligand and its biological activities
12.10 pm	RASM 1045	Synthesis and Application of Benzodiazepine compounds as corrosion inhibitor for mild steel in acid media
12.30 pm	RASM 1091	Effect of oxidants and dopant on morphology, crystallinity and optical absorbance of nano structural polyindole
12.50 pm	RASM 1092	Advance Recovery Approach for Efficient Recovery of Waste Lubricating Oil by Different Material Formulations
02.00 pm	RASM 1093	Structural, Morphological and Optical Studies of CdSe Quantum Films Synthesized by Ultrasonic Vibration Assisted Drop-Casting Method
02.20 pm	RASM 1097	A simple method for the synthesis of anatase-rutile mixed phase TiO ₂ using a simple precursor and higher visible-light photocatalytic activity of Co-doped TiO ₂
02.40 pm	RASM 2011	Multiobjective Optimization of Thermophysical Properties of Indonesian fly-ash nanofluid
03.00 pm	RASM 2026	Effect of Temperature on Yield and Nanostructure of Multiple Layers of Carbon Nanotubes
03.20 pm	RASM 2036	Synthesis and investigation of structural, morphological, thermal behaviour, and magnetic properties of CoFe ₂ O ₄ -MnO ₂ nano-composite
03.40 pm	RASM 2044	Chromium Oxide Regulated Nanoparticles Biosynthesis in Manihot Esculenta Leaf Extract
04.00 pm	RASM 3012	Role of Critical Area in nanofiltration of fatty acids by polymer membrane

Session: CE01

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Mr.Vinod T Dsouza**Session in-charge Contact Number: **+91 9986449088**Google Meet ID/Link: meet.google.com/anb-frvd-hir

Time	Paper ID	Paper Title
11.30 am	RASM 1002	Recycling and Reclamation of MSW Using MRF Techniques in Madurai
11.50 am	RASM 1016	Biological material in self-healing of concrete
12.10 pm	RASM 1049	Response of Self-Compacting Concrete Beams under Varying Temperature
12.30 pm	RASM 1050	Development and Strength Assessment of Sustainable High Strength Fiber Reinforced Concrete
12.50 pm	RASM 1067	Studies on Computing Compressive Strength of Zeolite Blended Concrete Using Multiple regression Analysis
02.00 pm	RASM 1069	Performance of Ternary Blend SCC With Ground Granulated Blast Furnace Slag and Metakaolin
02.20 pm	RASM 1070	Study of Effect of Confinement in Lightweight Aggregate Concrete using GFRP Tubes
02.40 pm	RASM 1071	Enhanced Concrete Performance in Cracking Resistance and Chloride Penetration using Hybrid Fiber Blends
03.00 pm	RASM 2016	Buckling of functionally graded carbon nanotube reinforced composite cylindrical panel with a cutout under uniaxial compression
03.20 pm	RASM 2035	Profound probing of Groundnut Shell Ash (GSA) as Pozzolanic Material in making innovative sustainable construction material
03.40 pm	RASM 2041	Simulation of dynamic processes in earth dams under shock impacts
04.10 pm	RASM 2053	Experimental Evaluation of Sorptivity For High Strength Concrete Reinforced with Zirconia Rich Glass Fiber and Basalt Fiber
04.30 pm	RASM 2060	Modeling elastic-plastic strains in earth dams

Session: CE02

Date: 29.07.2021

Time: 11.30 am to 04.50 pm

Session In-charge: **Mrs. Vishmitha Shetty**Session in-charge Contact Number: **+91 9743702278**Google Meet ID/Link: meet.google.com/jzc-nnrq-ipb

Time	Paper ID	Paper Title
11.30 am	RASM 2067	Valorization of Soda Lime Glass in Cement Sand Matrix
11.50 am	RASM 2074	Enhancement on the Properties of Recycled Coarse Aggregate through Bio-deposition – An Experimental Study
12.10 pm	RASM 2081	Modelling of AOP removal of β - blocker Atenolol from wastewater
12.30 pm	RASM 2082	Multiple approach to crash analysis toward battle robot under impact loads
12.50 pm	RASM 2084	Prediction of mechanical properties for Polyetheretherketone composite reinforced with Graphene and Titanium powder using Artificial Neural Network
02.00 pm	RASM 2090	Feasibility development of anchored geogrid for the enhancement of CBR value in weak subgrade soil
02.20 pm	RASM 3003	Design of an impact attenuator for passive safety on roads
02.40 pm	RASM 3029	Combined effect of metakaolin and hybrid fibers on the strength properties of high performance concrete
03.00 pm	RASM 3038	Durability of fly ash and silica fume based composite fiber reinforced high-performance concrete subjected to acid attack
03.20 pm	RASM 3049	Carbon Dioxide And GHG Emission Reduction by Utilization of Groundnut Husk Ash in Concrete
03.40 pm	RASM 3056	Recycled Substance Evaluation and Effect on Fire Resistance Structures
04.10 pm	RASM 3089	Evaluate the Optimum dosage of Nano Material on Self Sensing Properties for Nano Cement Composites
04.30 pm	RASM 4003	Comparative Study of Confining Reinforcement Used for the Rectangular Concrete Short Column

Session: ME01

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Prasad B G**Session in-charge Contact Number: **+91 9740901154**Google Meet ID/Link: meet.google.com/iij-cjcd-gqu

Time	Paper ID	Paper Title
11.30 am	RASM 1032	Numerical Simulation of Effect of Geometry, Material on Thermal Performance of Engine Cylinder Fins
11.50 am	RASM 1043	An analytical study on electroosmotic flow within a microchannel between two parallel plates without the Debye–Huckel approximation
12.10 pm	RASM 1044	Generation of Square Micropattern using Electrochemical Micromachining
12.30 pm	RASM 1047	Numerical Simulation of Savonius Rotors used for Low Wind Speed Application
12.50 pm	RASM 1086	An investigation on the performance and viability of a hybrid twisted blade profile for a Horizontal Axis Micro Wind Turbine
02.00 pm	RASM 2004	The Use of Entropy-Based GRA Approach to Analyze and Optimize the Wire Electrical Discharge Machining Process for Nitronic-30
02.20 pm	RASM 2019	Impact of Mach Number on the Flow Pattern in Suddenly Expanded Duct
02.40 pm	RASM 2030	An Investigation on Fatigue Behaviour of Bi-Directional Fibre Reinforced Polymer Nano Composite Using FEA Solver
03.00 pm	RASM 2031	Migration Induced Localization of Multiwalled Carbon Nanotubes in PP Phase of PP/ABS blend and their Hybrid Composites:Influence on Mechanical and Thermal Properties
03.20 pm	RASM 2032	Synthesis and characterization of acid treated reduced graphene oxide
03.40 pm	RASM 2040	Effect of Ethylene glycol mono acetate as an oxygenated fuel additive on emission and performance characteristics of diesel engine fueled with diesel-cottonseed biodiesel
04.10 pm	RASM 2043	Effect of different electrode angle as well as weld direction on the bead geometry of Submerged Arc Welding process
04.30 pm	RASM 2051	The effect of cutting fluid in improving the machinability of Inconel 718 using ceramic AS20 tool
04.50 pm	RASM 2054	Design of a 6 DOF robot manipulator for 3D printed construction

Session: ME02

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Karthik**Session in-charge Contact Number: **+91 8722440399**Google Meet ID/Link: meet.google.com/uij-nynh-vzf

Time	Paper ID	Paper Title
11.30 am	RASM 2056	Lateral torsional buckling of steel beams strengthened by steel plate
11.50 am	RASM 2073	Significance of dynamic control on suddenly expanded flow when nozzles are over, under, and perfectly expanded
12.10 pm	RASM 2077	Emission control exploring the energy and exergy analysis for turbines of a 500MW coal-based conventional power plant
12.30 pm	RASM 2083	Experimental study on near-dry wire-cut electrical discharge machining of Inconel 718 alloy
12.50 pm	RASM 2086	Hydroelastic analysis of floating long viscoelastic plate in shallow water
02.00 pm	RASM 2093	Effect of water pressure and temperature on spherical float of level sensing auto drain valve
02.20 pm	RASM 2095	Effect of sawdust addition on the mechanical and water absorption properties of Banana-Sisal/Epoxy natural fiber composites
02.40 pm	RASM 3001	Design of a fixture for wire-cut EDM: a generic approach
03.00 pm	RASM 3015	CFD Study on the Effect of Nanofluids in Natural Circulation Loop With Side Heater
03.20 pm	RASM 3022	A Critical Study and Analysis of Process Parameters of Selective Laser Sintering Rapid Prototyping
03.40 pm	RASM 3041	Effect of particle damper technique on tribological properties during hard turning process
04.10 pm	RASM 3046	Bending Response Optimization of an Ionic Polymer-Metal Composite Actuator Using Orthogonal Array Method
04.30 pm	RASM 3053	Design of Multipurpose Mechanical Machine
04.50 pm	RASM 3055	Effect of SMAW Flux Composition on the Metallurgy of Welded Duplex Stainless Steel

Session: MSE01

Date: 29.07.2021

Time: 11.30 am to 04.40 pm

Session In-charge: **Mr. Sudheer Kini**Session in-charge Contact Number: **+91 9686380597**Google Meet ID/Link: meet.google.com/ica-txgc-upw

Time	Paper ID	Paper Title
11.30 am	RASM 1075	Exploring Potential of Glass Surface Immobilized Short Antimicrobial Peptide (AMP) as Antibacterial Coatings
11.50 am	RASM 1094	AHSS welding using undermatching filler wires and process advantages with P-GMAW
12.10 pm	RASM 2024	Designing a short, potent, pore-forming antimicrobial peptide
12.30 pm	RASM 2061	Effect of Filler Wire Strength on High Strength Low Alloy Steels
12.50 pm	RASM 2063	Pressure Dependent Chemical Changes Of Adsorbed Water In MIL-47 (V) By Raman Spectroscopy
02.00 pm	RASM 4012	Stabilization of Cr ⁺⁶ in Sodium Dichromate plant residue through Down Daft Sintering (DDS) technique and its application in manufacture of building bricks
02.20 pm	RASM 5057	Thermodynamic analysis of thermochemical energy storage system based on AB5 type hydride pairs
02.40 pm	RASM 4042	Mechanochemical Synthesis and Microstructural Characterisation of CaTiO ₃ Powders
03.00 pm	RASM 4071	Dielectric Properties of Steel Melting Shop (SMS) Slag
03.20 pm	RASM 5059	Influence of Fibers Hybridization on the Tensile and Flexural Properties of Hemp/VB Bagasse Reinforced Poly-lactic Acid (PLA)
03.40 pm	RASM 6026	Comparative assessment and statistical data of admixed rosemary and castor oil on the corrosion inhibition of high carbon and P4 low carbon mold steels
04.00 pm	RASM 6027	Comparative data on the protection performance of celery, pomegranate and green tea distillates on mild steel in weak H ₂ SO ₄ solution
04.20 pm	RASM 5086	Effect of Wave Shift of Porous Slab on Thermo-Hydraulic Transport Characteristics of Laminar Flow Through a Wavy Channel
04.40 pm	RASM 4033	A simplified bibliometric mapping and analysis about sustainable polymers

Session: PH01

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mrs. Prathiksha Rai**Session in-charge Contact Number: **+91 8884935545**Google Meet ID/Link: meet.google.com/nhp-skpa-tya

Time	Paper ID	Paper Title
11.30 am	RASM 1011	Polyaniline-CuO Nanocomposite: Electrical, Structural and Sensor Properties
11.50 am	RASM 1036	Conducting polyaniline doped with zinc tungstate matrix film as gas sensing composite
12.10 pm	RASM 1048	Theoretical investigation of, ferroelectric Phase transition, and Tangent delta in CsH ₂ AsO ₄ (CDA) crystal
12.30 pm	RASM 1055	Synthesis of Marigold-like ZnIn ₂ S ₄ Microspheres at Low-Temperature
12.50 pm	RASM 1058	Vegetative voltaic cell from ethanolic leaf extract from Prosopis juliflora plant
02.00 pm	RASM 1061	X-ray Structure of 4-Aminopyridinium-Oxalate-Oxalic acid-Hydrate (1/1/0.5/0.5) And Its Characterization
02.20 pm	RASM 1063	Investigation of Dielectric properties and Ferroelectric phase transition in lead-free AgNbO ₃
02.40 pm	RASM 1072	Optical and Upconversion Properties of Bismuth Tellurite Glasses Co-doped With Er ³⁺ -Yb ³⁺ Ions
03.00 pm	RASM 1076	Excess Thermodynamic Properties of Binary Liquid Mixture at Different Temperature
03.20 pm	RASM 1082	Ultrasonic Study of Molecular Interactions in Organic Liquid with CCl ₄ at Different Temperature
03.40 pm	RASM 1088	Preparation of UV, LASER and white light sensitive conducting polymer poly (3, 4-ethylenedioxythiophene) "PEDOT" nanoparticles
04.10 pm	RASM 1090	Effycacy Of Photoluminescenes And Magnetic Behavior Of Ce Doped ZnO Nanoparticles By Solid State Reaction Method
04.30 pm	RASM 1098	Third order measurements, Thermal and Mechanical Stress Tolerance Studies of a Nonlinear Borate Family hybrid crystal towards Optoelectronic Applications
04.50 pm	RASM 2001	Experimental investigations on the beta attenuation properties of lead monoxide – polycarbonate composite films.

Session: PH02

Date: 29.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mrs.Divya A**Session in-charge Contact Number: **+91 9480671109**Google Meet ID/Link: meet.google.com/qaf-jumn-sjt

Time	Paper ID	Paper Title
11.30 am	RASM 2007	Thermal and optoelectrical properties of cobalt doped and undoped strontium L(+) tartrate pentahydrate single crystals
11.50 am	RASM 2008	Magnetic Susceptibility and frequency dependence ac conductivity of PPY/PANI/V ₂ O ₅ nanosheets
12.10 pm	RASM 2015	Spectroscopic studies of Transition metal ion-doped borate glasses for optical applications
12.30 pm	RASM 2025	Enhanced Properties of Zn ²⁺ Substituted Cr ₂ O ₃ Nanoparticles In Escalating The Distillate Yield Of Acrylic Pyramid Solar Still
12.50 pm	RASM 2029	Imidazole added Sulphamic Acid Single Crystals with Optimal Properties for Optoelectric Devices
02.00 pm	RASM 2034	Structural and Spectroscopic Analysis of Pure Phase Hexagonal Wurtzite ZnO Nanoparticles Synthesized by Sol-Gel
02.20 pm	RASM 2039	One-pot hydrothermal synthesis of polypyrrole/Fe ₂ O ₃ nano-seeds for energy storage application
02.40 pm	RASM 2042	Effect on Lotus leaf for Dielectric Applications
03.00 pm	RASM 2048	Structural and morphological properties of bismuth telluride nanoparticles synthesized by two-step hydrothermal method
03.20 pm	RASM 2058	Melting phenomena of Cu _{0.25} Ni _{0.75} bimetallic alloy: A Molecular Dynamics Approach
03.40 pm	RASM 2066	Synthesis and characterization of Manganese doping on NiO nanoparticles and its supercapacitor applications
04.10 pm	RASM 2069	Ion transport property studies of a new TiO ₂ dispersed Na ⁺ ion conducting nanocomposite polymer electrolytes
04.30 pm	RASM 2075	Factors influencing mobility in ITO thin films and the consequent effects on optical and NIR surface plasmon resonance properties
04.50 pm	RASM 2080	RF-sputtered V ₂ O ₅ thin films on two different glass substrates

Session: CH02

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mrs. Sharanya P S**Session in-charge Contact Number: **+91 8105763404**Google Meet ID/Link: meet.google.com/kvw-yfem-tpq

Time	Paper ID	Paper Title
11.30 am	RASM 3014	Investigation on Solid State Pyrolytic Decomposition of Bimetallic Fumarate and Tartrate Precursors of Co (II), Ni (II) and Zn (II) with Manganese
11.50 am	RASM 1009	A study on the photo stability of Basella Rubra (Pasalai fruit) Extract with Nano Flower Zinc Oxide
12.10 pm	RASM 3068	Influence of Cu ²⁺ substitution on structural and optical properties of Mg-Zn ferrite nanoparticles
12.30 pm	RASM 3071	Evaluation of solvent transport and cure characteristics of chlorobutyl rubber graphene oxide nanocomposites
12.50 pm	RASM 4002	Synthesis, Single Crystal X Ray Diffraction analysis and thermogravimetric studies of a novel Cu (II) based metal organic frame work from Isophthalate and Pyridine linkers
02.00 pm	RASM 4004	Synthesis characterization DC conductivity and EMI shielding studies of Iron-decorated Polypyrrole-fly ash nanocomposites
02.20 pm	RASM 4021	Peroral delivery of risedronate sodium for treatment of osteoporosis
02.40 pm	RASM 4023	Development of Green Geo-Adsorbent Pellets from Low Fire Clay for Possible Use in Methylene Blue Removal in Aquaculture
03.00 pm	RASM 4082	In Vitro Study of Green Synthesized ZnO Nanoparticles on Human Lung Cancer Cell Lines
03.20 pm	RASM 5070	Four-parameter model for the thermodynamic and microscopic properties of AlCu liquid alloys at 1373 K
03.40 pm	RASM 5083	Anti-bacterial and anticancer activities of Quinoxaline-2-carbohydrazide-N-oxide compounds
04.10 pm	RASM 5092	Preparation and characterization of Caprine bone derived mineral substituted Hydroxyapatite/ Phyllanthus acidus extract for biomedical applications

Session: CE03

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mr. Saketh Shetty**Session in-charge Contact Number: **+91 7045136986**Google Meet ID/Link: meet.google.com/xem-exws-ngd

Time	Paper ID	Paper Title
11.30 am	RASM 4005	The combined effect of GGBS and low volume fibres on the low-velocity impact and mechanical properties of Self-compacting concrete
11.50 am	RASM 4006	Arriving the Suitability of Polyethylene Wastes in Flexible Pavements: An Experimental Approach
12.10 pm	RASM 4010	Temperature Stresses in Functionally Graded (FGM) Material Plates using Deformation Theory – Analytical Approach
12.30 pm	RASM 4024	Flexural Shear Behavior of FRHSC Beams with Fibers only in Shear Span
12.50 pm	RASM 4069	Investigating the Performance of Self-Compacting Concrete Pavement Containing GGBS
02.00 pm	RASM 4086	Effect of PCB as partial replacement of fine aggregate and coarse aggregate in concrete
02.20 pm	RASM 4088	Finite Element Analysis of Polymeric and Cementitious materials to secure Cracks in concrete
02.40 pm	RASM 4093	Stabilization of Soil Nailed Slope by Flexible Facing
03.00 pm	RASM 4095	Modelling the Hardened Properties of Steel Fiber Reinforced Concrete using ANN
03.20 pm	RASM 5002	Evaluation of Strength Parameters of Ultra-Fine Flyash and Nanosilica Incorporated High-Performance Concrete
03.40 pm	RASM 5006	Comparative study of various flexible facing materials for soil nailed slopes
04.10 pm	RASM 5007	Assessment of Asphalt Binder and Mixes Modified with Zycotherm and Sulphur

Session: CE04

Date: 30.07.2021

Time: 11.30 am to 04.30 pm

Session In-charge: **Mr. John Prakash Veigas**Session in-charge Contact Number: **+91 9482038836**Google Meet ID/Link: meet.google.com/gcv-nnkc-vci

Time	Paper ID	Paper Title
11.30 am	RASM 5012	Evaluation of Cerium Oxide Nanoparticle as Corrosion Inhibitor for Mild Steel
11.50 am	RASM 5027	Influence of Glass Powder and Hydrated Lime on Strength Properties of Concrete
12.10 pm	RASM 5033	Development of Pavement Quality Concrete with SCM's, Fibers and Graphite
12.30 pm	RASM 5046	Experimental investigation on strength properties of high performance concrete produced using artificial and natural sand
12.50 pm	RASM 5053	Incinerated municipal solid waste bottom ash bricks: a sustainable and cost-efficient building material
02.00 pm	RASM 5055	Effect of Elevated Temperature on Stress-Strain Behaviour of Self-Compacting Concrete
02.20 pm	RASM 5075	Fly-Ash Conjoined Ground Granulated Blast Furnace Slag Proxy for Fresh and Hardened Responses
02.40 pm	RASM 5085	Studies on Usage of Natural Fibers and Eco Sand for Sustainable Concreting
03.00 pm	RASM 7003	3D Concrete Printing Matrix Reinforced with Geogrid
03.20 pm	RASM 7005	Experimental Study on Light Weight Panel using Phosphogypsum
03.40 pm	RASM 7006	Utilization of Plastic Waste and ProsopisJuliflora Ash in Making Floor Tiles
04.10 pm	RASM 7007	Study on Properties of Bio-Bricks

Session: ME03

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Dr. Sreejith B K**Session in-charge Contact Number: **+91 9747335321**Google Meet ID/Link: meet.google.com/xsj-rtwd-jpo

Time	Paper ID	Paper Title
11.30 am	RASM 3061	Experimental investigations of wire lag phenomena on wire electrical discharge machining of M2 tool steel
11.50 am	RASM 3063	Microstructure evolution and phase transformation of ZrB ₂ -ZrO ₂ -MoSi ₂ -Al coating during annealing treatment
12.10 pm	RASM 3067	Experimental comparative study of banana fiber composite with glass fiber composite material using Taguchi method
12.30 pm	RASM 3069	Effect of CNT content on microstructure and hardness of AlSi/MWCNT Nano composite
12.50 pm	RASM 3076	Force Transmissibility of the Viscoelastic Material Used as Vibration Isolation in Power Loom
02.00 pm	RASM 3095	Mathematical modeling of various forces acting on piston rod packing rings and determining its basics dimensions
02.20 pm	RASM 4001	Tribological Analysis of Al-Si alloy based MMCs at Elevated Temperature
02.40 pm	RASM 4019	Evaluation of Normalized Thickness Variation of Superplastic Cone Forming
03.00 pm	RASM 4036	Experimental Investigation on Compression Strength of EPOXY/PVC Blend with Different Fibre Glass Reinforcements Using Taguchi's L 27 Orthogonal Array
03.20 pm	RASM 4043	Experimental Investigations on triple concentric tube heat Exchanger
03.40 pm	RASM 4046	Numerical Study of Fluid Flow and Heat Transfer for Flow of Cu-Al ₂ O ₃ -Water Hybrid Nanofluid in a Microchannel Heat Sink
04.10 pm	RASM 4049	Optimization of cutting forces and tool-tip temperature in turning of nickel-based superalloy using FE simulation
04.30 pm	RASM 4051	Acoustic emission test method for investigation of M250 maraging steel pressure vessels for aerospace applications
04.50 pm	RASM 4053	Analysis and Optimization of Nozzle Distance during Turning of EN-31 Steel Using Minimum Quantity Lubrication

Session: ME04

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Sunil Kumar S**Session in-charge Contact Number: **+91 7406903242**Google Meet ID/Link: meet.google.com/zop-twor-zuk

Time	Paper ID	Paper Title
11.30 am	RASM 4075	Trajectory Features and Energy Dissipation of Conventional and Modified (Deflector) Ski-Jump Bucket
11.50 am	RASM 4080	Comparative Analysis of Drop Impact Resistance for Different Polymer Based Materials Used for Hearing Aid Casing
12.10 pm	RASM 5018	Tensile Behavior of Pre-Stress Corroded and Post Hydrogen Embrittled Spring Steel
12.30 pm	RASM 5021	Experimental study on the stability and flame characteristics of LPG flames in O ₂ /N ₂ and O ₂ /CO ₂ environment
12.50 pm	RASM 5032	Performance assessment of valve regulated lead acid battery for E-bike in field test
02.00 pm	RASM 5034	Comparative modal analysis of cantilever beam made of biocomposites using finite element analysis
02.20 pm	RASM 5040	Effect of hydrogen flow rates on the performance of two biodiesels fuelled dual fuel engine
02.40 pm	RASM 5056	Environmentally Assisted Fracture Behavior of Edge and Corner Notched Spring Steel
03.00 pm	RASM 5072	Effect of injection timing on the performance of Ceiba Pentandra biodiesel powered dual fuel engine
03.20 pm	RASM 5089	Design optimization of strain gauge mounting cross section length of strain gauge balance component for wind tunnel application
03.40 pm	RASM 5090	Artificial neural network modelling for average surface roughness in citrate stabilized electroless nickel boron coatings
04.10 pm	RASM 7001	Dislocation and Deformation Analysis of Cu-Ni Thin Films during Nanoindentation using Molecular Dynamics Simulation Approach
04.30 pm	RASM 7002	Experimental Analysis on Roof Construction
04.50 pm	RASM 7008	Experimental Study of Single Bed Prototype adsorption Refrigeration Unit Using Low Grade Heat Energy

Session: PH03

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Kiran Kumar V G**Session in-charge Contact Number: **+91 9845264798**Google Meet ID/Link: meet.google.com/vwt-yvdm-oac

Time	Paper ID	Paper Title
11.30 am	RASM 2087	Nanostructure Wrinkle Thin Films on Flexible Substrate: Tunable Optical Properties
11.50 am	RASM 2088	Investigation of DFT on the structural and electronic properties of silicene nanoribbons when adsorption of Li, H, Fe
12.10 pm	RASM 2091	Structural characterization and investigation of magneto-optic and multiferroic properties of nanostructured CoFe_2O_4 prepared by sol-gel derived facile chemical route
12.30 pm	RASM 3008	Honey Based Hydrogel as Delivery System for Wound Healing
12.50 pm	RASM 3016	Optimum Utilization of Ceramic Tile Waste for Enhancing Concrete Properties
02.00 pm	RASM 3024	UV-Vis absorption Spectroscopic Analysis of Oxyhalide Glass System
02.20 pm	RASM 3028	Theoretical investigation, of Cochran's mode frequency, and electrical permittivity of KH_2AsO_4 (KDA) crystal by using Zuberav's statistical Green function technique
02.40 pm	RASM 3040	DSSC using <i>Wrightia tinctoria</i> (Roxb.) R Br.: A TRIAL
03.00 pm	RASM 3047	Thiourea doped TiO_2 : Structural, Optical and Electrochemical Properties
03.20 pm	RASM 3051	Angular Dependence of Localized Mode of Chalcogenide Photonic Crystal
03.40 pm	RASM 3052	Theoretical study on various contributions to the magnetization of $\text{Pb}_{1-x}\text{Eu}_x\text{Se}$
04.10 pm	RASM 3060	Structural, Morphological and Electrical Properties of PVA/Au Nanocomposite Films
04.30 pm	RASM 3096	Investigation of structural and electrical properties of nickel chloride doped Pyrrole Aniline Copolymer
04.50 pm	RASM 4014	Study of Structural and Electrochemical Properties of Ilmenite (FeTiO_3) doped TiO_2

Session: PH04

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Dr. Sadananda Kumar**Session in-charge Contact Number: **+91 9972011911**Google Meet ID/Link: meet.google.com/jmc-rshz-emw

Time	Paper ID	Paper Title
11.30 am	RASM 4018	Low temperature synthesis and influence of Ce ³⁺ substitution on structural and magnetic properties of nanocrystalline cobalt ferrite using citrate precursor sol-gel method
11.50 am	RASM 4025	Parametric amplification of acoustical phonons in semiconductor magneto-plasmas: quantum effects
12.10 pm	RASM 4038	Green Synthesis of ZnO and CuO NPs using Ficus benghalensis Leaf Extract and their Comparative study for Electrode Materials for High performance Supercapacitor Application
12.30 pm	RASM 4040	Steady-state and transient Raman gain coefficients of weakly-polar magnetoactive doped semiconductors
12.50 pm	RASM 4083	Preparation, Characterization of SF- HPMC blend films and SF microparticles
02.00 pm	RASM 4091	Elastic and mechanical properties of titanium diboride under high pressure
02.20 pm	RASM 5025	Analysis of the thermoluminescence glow curve of CaSO ₄ :Dy phosphor by simplified general One Trap Differential equation.
02.40 pm	RASM 5028	Nanocrystalline ceramic oxide CaBiNbO ₆ - An optically active material
03.00 pm	RASM 5045	Combustion Synthesis and Luminescence Characterization of Dy ³⁺ Activated Li ₂ Sr ₂ Al ₂ PO ₄ F ₉ Phosphor
03.20 pm	RASM 5047	Symmetries in the properties of mixing of AgCu liquid alloys at 1423 K
03.40 pm	RASM 5061	Influence of the properties of p-a-Si:H layer and the work function of front contact on silicon heterojunction solar cell performance
04.10 pm	RASM 5069	Synthesis and luminescence properties of Ce ³⁺ doped (Sr, Ba) ₂ GeO ₄ phosphors
04.30 pm	RASM 5076	Structural, optical and Magnetic properties of Yttrium Aluminium Bromate (YAB) nanomaterial, prepared by low cost sol-gel chemical method
04.50 pm	RASM 5082	Structural and Electrical Investigation of 'Bi' doped SmFeO ₃ -BaTiO ₃ perovskite system

Session: AME01

Date: 30.07.2021

Time: 11.30 am to 05.10 pm

Session In-charge: **Mr. Vilma Dsouza**Session in-charge Contact Number: **+91 9980016473**Google Meet ID/Link: meet.google.com/qfo-bjcq-sfq

Time	Paper ID	Paper Title
11.30 am	RASM 2023	Stability Issues And Mitigating Techniques In The AC Grid System
11.50 am	RASM 2028	Robustness Evaluation of sub-22nm FinFETs Electrical Characteristics Affected by Physical Variability
12.10 pm	RASM 2059	Study of radiation shielding materials on Microstrip Patch Antenna for sustainability
12.30 pm	RASM 2068	Configuration of phosphorus doping in silicene nanoribbons in the presence of an external electric field
12.50 pm	RASM 3021	Analysis of Hybrid Tandem Solar Cell using Neural Network
02.00 pm	RASM 4016	Development of an Ammonia gas sensor employing an inter-digital capacitive structure coated with Mn _{0.5} Zn _{0.5} Fe ₂ O ₄ nano-composite
02.20 pm	RASM 4060	Novel graphene-based OPFET for optoelectronic applications
02.40 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions
03.00 pm	RASM 3026	Multiple Slips and Heat Source Effects on Mhd Stagnation Point Flow of Casson Fluid Over a Stretching Sheet in the Presence of Chemical Reaction
03.20 pm	RASM 3037	Characteristics Of Mhd Casson Fluid Past An Inclined Vertical Porous Plate
03.40 pm	RASM 3043	Free vibrations of rigidly fixed electro-magneto non-local generalized thermoelastic cylinder with voids material
04.10 pm	RASM 4090	Numerically approach for enhanced mass transfer of Bio-convection on Magneto-hydrodynamic Carreau fluid flow through a nonlinear stretching surface
04.30 pm	RASM 5009	Effects of Crack Location and Depths for an Iron Bar: A Finite Element approach
04.50 pm	RASM 2099	Bipolar Intuitionistic Fuzzy Soft Expert Score Functions



AJ INSTITUTE OF ENGINEERING & TECHNOLOGY

A Unit of Laxmi Memorial Education Trust

(Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University, Belgaivi)

NAME OF THE EVENT:	Global Conference of Recent Advances in Sustainable Materials (GC-RASM 2021)
ORGANISING DEPARTMENT / COMMITTEE :	Department of Civil Engineering Department of Mechanical Engineering Department of Basic Sciences and Humanities
DATE :	29-07-2021 and 30-07-2021
NAME OF THE RESOURCE PERSON :	<p>Keynote 1 – 29.07-2021 Ts. Dr. Tan Chye Lih Head of Strategy and Risk Management Division, SQM Faculty of Mechanical Engineering Technology, University Malaysia Perlis (UNIMAP) Malaysia. Meeting link: https://meet.google.com/oxv-oabd-adu</p> <p>Keynote 2 – 29.07-2021 Dr. Manoharan P A Dean - Innovations Chennai Institute of Technology & Director, Robota Technology Innovation Pvt. Ltd., Chennai Meeting link: https://meet.google.com/oxv-oabd-adu</p> <p>Keynote 3 – 30.07-2021 Dr. Patel R N Department of Electrical Engineering National Institute of Technology Raipur Raipur, Chhattisgarh, India. Meeting link: https://meet.google.com/oxv-oabd-adu</p> <p>Keynote 4 – 30.07-2021 Dr. Murugappan M Department of ECE Kuwait College of Science and Technology (A Private University) Kuwait. Meeting link: https://meet.google.com/oxv-oabd-adu</p>
NO OF PARTICIPANTS :	211 participants in Virtual mode & 02 participants in physical mode.

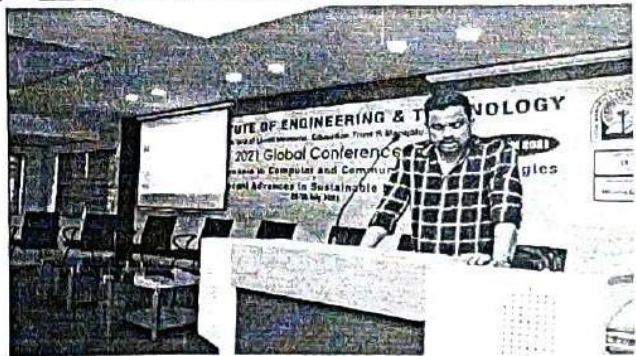
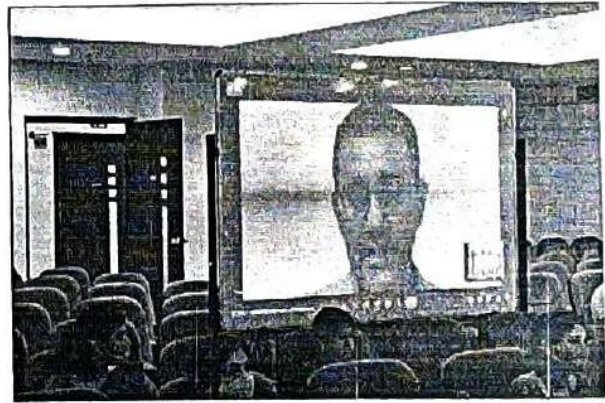
A two-day Global Conference of Recent Advances in Sustainable Materials (GC-RASM 2021) was inaugurated on 29-07-2021 in Seminar Hall-1 at AJIET Campus. The inaugural function started by 9.35AM. and the delegates were escorted to dais by Dr. Nagesh H. R. and Dr. Sangeetha D. M. The function was presided by Mrs. Ashritha P. Shetty - Director, LMET(R), Principal Dr. Shantharama Rai C., Chief convener of GC-RDCT 2021 Dr. Nagesh H.R., Chief convener of GC-RASM 2021 Dr. Sangeetha D.M. and HOD's of various departments. Ms. Shraddha and Team evoked the blessings of

almighty with a prayer song. Dr. Nagesh H.R. welcomed the gathering and Dr. Sangeetha D.M. briefed about the conference. The CMS partner for the conference Dr. Thangaprakash S. from Diligentee solutions released the conference souvenir virtually and delivered a talk on about the conference. Principal Dr. Shatharama Rai C. addressed the gathering about the Institute and the conference. Presidential address was delivered by Mrs. Ashritha P. Shetty and congratulated the team for organizing the conference at international standards. Vote of Thanks was delivered by Mrs. Smitha Shetty.

Day 1 - The program started with Keynote session 1 at 10.15 AM., followed by keynote session 2 at 10.45 a.m. Altogether around 8 parallel sessions started by 11.30 AM. and held virtually using Google meet platform. Around 89 papers were presented virtually and 02 paper in physical mode out of 107 registered papers.

Day 2- 30.7.2021: Keynote session 3 started by 10.00 AM followed by Keynote session 4 at 10.45 AM. Thereafter nine (8) parallel sessions were started simultaneously by 11.30 AM. Around 98 papers were presented virtually out of 106 registered papers.

Valedictory: In the evening by 4.30 PM. valedictory session was held virtually via Google Meet. Mrs. Smitha Shetty welcomed the gathering. Dr. Nagesh H.R. delivered Valedictory Speech. Principal Dr. Shantharama Rai C., delivered the presidential address. Few researchers and Session chairs shared their valuable feedbacks. Dr. Thangapraksh S., shared the concluding remarks of the conference followed by Vote of thanks by Dr. Sangeetha D.M. The session concluded by 5.00 PM.



Glimpse of Conference Inauguration and Keynote Sessions

Sangeetha
CONVENOR

Dr. Sangeetha D.M

CC to:

1. President, LMET, Mangaluru
2. Vice President, LMET, Mangaluru

PRINCIPAL
Principal

A.J. Institute of Engineering & Technology
Mangaluru - 575 006