



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
[DEEMED UNIVERSITY]
Accredited Grade "A" by NAAC



INTERNATIONAL CONFERENCE ON WASTE ENERGY AND ENVIRONMENT
(ICWEE-2021)
23rd -24th SEPTEMBER 2021

Program Schedule

Day 1: 23-09-2021

9: 00 am	Welcome address	Dr. J. Arun, Scientist – C, Centre for Waste Management Sathyabama Institute of Science and Technology
9: 10 am	Presidential address	Dr. T. Sasipraba, Vice Chancellor, Sathyabama Institute of Science and Technology
9: 20 am to 10: 00 am	Inaugural address	Dr. Jorge Beltramini Adjunct Professor, Centre for Agriculture and Bioeconomy, Queensland University of Technology, Australia.
10: 00 am to 10: 30 am	Keynote address - 1	Dr. Saravanamuthu Vigneswaran Professor, University of Technology Sydney, Australia
10: 30 am to 12: 30 pm	Oral presentation session – 1, 2 and 3	
	Lunch Break	
1:15 pm	Welcome address	Ms. N. Nirmala, Centre for Waste Management, Sathyabama Institute of Science and Technology
1: 20 pm to 3: 30 pm	Oral presentation session – 4, 5 and 6	
	End of day-1	

Day 2: 24-09-2021

9: 00 am	Welcome address	Dr. Vinita Vishwakarma, Head and Scientist – F, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
9: 10 am	Keynote address - 2	Dr. A. Babuponnusami Associate Professor, Department of Chemical Engineering, VIT University, Vellore
9: 45 am to 11: 45 noon	Oral presentation session – 7, 8 and 9	
	Lunch Break	
12: 30 pm	Welcome address	Ms. N. Nirmala, Centre for Waste Management, Sathyabama Institute of Science and Technology
12: 35 pm	Keynote address - 3	Dr. S. Kanmani Professor & Director Centre for Environmental Studies Anna University
1:00 pm to 3: 00 pm	Oral presentation session – 10, 11 and 12	
3: 00 pm	Announcement of best paper awards	
3: 15 pm	Vote of Thanks	Dr. Dawn S S, Head and Scientist – E, Centre for Waste Management, Sathyabama Institute of Science and Technology
3: 20 pm	Feedback from participants	
3: 30 pm	Sign off	

Oral sessions

23-9-2021 (Forenoon)

Session- 1: Nanomaterials and Nanotechnology	Session chair: Dr. Kuppusami P Senior Scientist, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE-116	Manoj M.D.	Enhancing The Activity Of ECG Surface Electrodes With Super P Carbon Black Additive
2	ICWEE-117	Sharmila G	Invitro anticancer and antibacterialefficacy of clerodendrum Phlomidismethanol extract incorporated into electrospun Polycaprolactone nanofibers
3	ICWEE - 71	Venkatraman I	Modified Boost Z Source Inverter With Induction Motor
4	ICWEE-119	Dr Richa Srivastava	Synthesis Of Phosphotungstic Acid Doped Polymeric Proton Exchange Membrane For Microbial Fuel Cell
5	ICWEE - 76	Rithikaa. T	Green synthesis of Zinc Oxide nanoparticles using <i>Clerodendrum phlomidis</i> and evaluation of their multi-functional properties
6	ICWEE-130	M. Manivannan	Phytogenic lupeol from <i>Clerodendrum phlomidis</i> and its seeding in polycaprolactone-gelatin nanofibers for anticancer activity
7	ICWEE-122	Raghul T Vardhan S	Nanotechnology For Energy Application
8	ICWEE - 110	N. Vanitha	Structural and thermal characterization of phosphoric acid reacted metakaolin-nano silica composite
9	ICWEE-131	Samuel Paul, Prasanna. T	Pharmaceutical Residue Ciloxan Removal By Marine Waste Biochars With Fe- Metal Oxides.
10	ICWEE-147	Iram Shabbir Khan	Inhibition of Candida albicans biofilm by Gold nanoparticles (Au-NPs) synthesized using <i>Sphaeranthus amaranthoides</i> a medicinal herb.
11	ICWEE-168	Harjeet Nath, Biswajit Sarkar	Enhanced anti-microbial effect of highly porous activated carbon prepared from some lignocellulosic biomass wastes available in N.E. India
12	ICWEE-176	Annam Renita. A	Adsorption of Carbon dioxide on Microporous Activated Carbon Derived from Agricultural Waste

23-9-2021 (Forenoon)

Session- 2: Nanomaterials and Nanotechnology	Session chair: Dr. Subhenjit Hazra Research Scientist, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 81	Vijay Samuel G	Intensification of thermal conductivity of phase-change material with nanomaterial for thermal energy storage applications
2	ICWEE - 88	S. Ragulraja	Toxicity induced by gold nanoparticles in silkworm <i>Bombyx mori</i> .L
3	ICWEE - 89	Nandhini. L	Nanotechnology For Sustainable Management Of Aquaculture And Aquatic Food Processing
4	ICWEE - 96	Vineeth Kumar C M	Exposure Of Selenium Nanoparticles On Marine Diatom <i>Chaetoceros Gracilis</i> Through Flow Cytometric, Cytotoxic And Oxidative Stress Analysis
5	ICWEE - 97	Shruthy Ramesh	A Comparative Study Of Cellulose Nano Fibers Synthesized From Different Agricultural Wastes
6	ICWEE - 104	Priyanga.A	Applied Catalysis In Energy Engineering
7	ICWEE - 105	V.Ananya	Capability Of Reduced Graphene Oxide Sensitized With Chlorophyll Extract For Harvesting Solar Energy
8	ICWEE - 107 (2)	N Shobana	Effect Of Green Synthesized Plant Gum Mediated Silver Nanoparticles On Zebra Fish Embryos And Remediation Studies
9	ICWEE - 107 (3)	Krithika Shree S Sathiyasree M	Application Of Nanosorbents On The Removal Of Water Contaminants - An In-Vitro And In-Vivo Approach
10	ICWEE-113	K. Janani	Bio Synthesis Of Copper Oxide Nanoparticle From <i>Clerodendrum Phlomidis</i> And Their Decoration With Graphene Oxide For Supercapacitor Application
11	ICWEE - 109	N.Vanitha	Investigation on rheology and microstructural properties of alkali activated cement mixed with industrial waste Fly ash and GGBS
12	ICWEE-188	Cheluri Nagendra Prasad	Novel Sulfonated Poly(oxybenzimidazole) bearing sulfo naphthal- imide pendant groups as side chains with improved proton conductivity and PEM fuel cell performance
13	ICWEE-181	Mr Charith Fonseca	Recovery of water and valuable metals by low pressure Nano Filtration and sequential adsorption from Acid Mine Drainage
14	ICWEE-191	Thi Hai Nguyen	Modelling and simulation of toxic arsenic ions removal in continuous column adsorption systems with Mn/Mg/Fe layered double hydroxides as adsorption medium

23-09-2021 (Forenoon)

Session- 3: Energy engineering	Session chair: Dr. S. Suresh Kumar Associate Professor, Department of Mechanical Engineering, SSN College of Engineering
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 08	S. Sanjeevi Prasanth, Giridaran A G, Dhanushprakash M, Kaushikraja B	Performance Analysis of Portable Tubular Solar Still for Water Desalination with Phase Change Material
2	ICWEE - 10	Gokul Prasanth T, Gokulavengatesh P, Gowtham S, Hari Charan K	Experimental Investigation on Waste Heat Power Harvesting Using Hybrid Thermoelectric Generator.
3	ICWEE - 12	Santhoshsivan R Seenidurai M Sathur Kanth A K Sarvesh R N	Heat Pipe Assisted Peltier Water Bottle for Both Heating and Cooling
4	ICWEE - 14	Sathish Kumar S Kavin Raj R S Kavin S Deenathayalan K K	Effect Of Design Parameters and Cooling Load On the Performance of The Cold Storage Unit In Poultry Applications
5	ICWEE - 18	Boopathi K Hari Nivesh P Mohan Kumar N S Akash A	Experimental Analysis On Performance Of Vapour Compression Refrigeration System Using Pcm At Evaporator Side
6	ICWEE - 22	Moulibharathi A Nishanth G Monishkumar V Meikumar R	Experimental Analysis on performance of vapor compression refrigeration system using PCM at condenser side
7	ICWEE - 24	Dhamu. S, Dinesh. K, Gopinath. R, Durgesh. D,	Electricity Generation From Vehicle Parking Area
8	ICWEE - 25	Dinesh S Gowri Shankar I Gokulkrishnan R	Analyzing The Performance Of Domestic Solar Heat Pump Water Heating System.
9	ICWEE - 26	Harish K Kadalvanan K M	Experimental Investigation On Performance Of Domestic Heat Pump Water Heating System.
10	ICWEE - 29	S. Dineshbabu, J. Daniel Sahayam, K. Boopathi	Wheelchair Using Rocker Boggie Mechanism
11	ICWEE - 37	Jagan S, Gowtham N, Dharshan R	Design And Fabrication Of Electric Scooter
12	ICWEE-160	Jayasurya R , Akash S S, Deepan M	Smart Mobility For Smart Cityes

13	ICWEE-186	Dhivya Mohan.B	Performance Studies On Reclaimed Asphalt Pavement In Concrete
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23-9-2021 (Afternoon)

Session- 4: Bio-Energy and algae	Session chair: Dr. Gopinath K P Associate Professor, Department of Chemical Engineering, SSN College of Engineering
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 34	Mukesh B Nikhil K M Joshva Bastin X Karmegam R	Design And Development Of Quick Digester Using Anaerobic Microbes
2	ICWEE - 35	Vivekanandhan.S, Gowthaman.K.S, Nithesh Kumar.B, Kesavamoorthi C, Prakash.S	Fuel Cell Technology
3	ICWEE - 39	Amudha T	Anaerobic Digestion And Electro-Methanogenesis Process: A Future Interaction Between Methane And Electricity Distribution Grids
4	ICWEE – 48	Priyanka B.S, Sahana H	“A Comparative Study Of The Properties Of Biodiesel Manufactured From Vegetable Oil.”
5	ICWEE – 59	Nitin Rajendra Suryawanshi	“Enhancement Of Solar Energy Conversion Efficiency Of Solar Photovoltaic Field By Cultivation Of Azolla In Pv Field And Its Application As A Source Of Bioenergy”
6	ICWEE - 95	Israel T T	A Review on Modeling of Biofuel production from biomass using Aspen Plus
7	ICWEE-129	Dr. Kumar Gaurav	Transesterification of lipid from Rhodotorula minuta for biodiesel production using heterogeneous nano-MgO catalyst
8	ICWEE-136	Md Abu Hanifa Jannat	Effects of initial microbial diversity on the anaerobic digestion of fish waste
9	ICWEE-137	Yulisa Arma	Implementation of ensemble learning models on predicting total ammonia nitrogen concentration in fish waste anaerobiosis
10	ICWEE-159	Su In Kim	Full-scale Anaerobic Digestion Reactor Start-up by Food Waste Input Induced Dominance of Methanoculleus Genus
11	ICWEE - 04	Shri Vigneshwar Sivakumar	Sustainable And Eco-Friendly Approach For Phosphorus Recovery From Wastewater By Hydrothermally Carbonized Microalgae: Study On Spent Bio-Chart Fertilizers
12	ICWEE - 53	Dr. A.B. Sathya	RSM And ANN Modeling Based Process Intensification Of Polyhydroxybutyrate Production Using Newly Isolated Pseudomonas Putida Ss9

13	ICWEE-144	Anusha Gowri RV Varshini V	Treatment of wastewater using algae- a review
14	ICWEE-161	Priya Elamvazhuthi	Isolation of Thermophilic Hydrogen Producing Bacteria from Oil Reservoir and its application in Distillery Spent wash

23-9-2021 (Afternoon)

Session- 5: IoT and Machine learning	Session chair: Dr. Jeberson Associate Professor, Department of Information technology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 27	Ilanthendral M, Dheenuka M, Subhanandhini G Vasundhara B	Waste Management System Using IOT-Based machine learning
2	ICWEE -06	P.Ganeshprabhu S.Shiva Vishnu	Road Health Monitoring Using IOT Application
3	ICWEE -23	Adithyan T Dhaneshwaran K V Boobasridhar T Giri Prasath M	IOT Based Automatic Temperature Checker And Mask Scanner.
4	ICWEE -16	Pradeep M Nikesh S Tamil Selvan K Maheshwara I	Development Of Smart Fraudulent Activity Detector System for Automobile Vehicles
5	ICWEE - 43	Mithulkiruthik K S	Monitoring Of Hybrid Energy System Using IOT
6	ICWEE - 55	Bharathi Kannan P Gowtham S Jayaprakash T K Karthikeyan L	Temperature, Oxygen Detection And Social Distance Alerting Device Using Arduino Microcontroller
7	ICWEE-33	Arunachalakumar S Aravind S Arulkumar S Arun Praveen K	Design And Development Of Intelligent Bearing Tester System Using Labview
8	ICWEE -56	Govarthana S S Jeevaram N Mydeen Afath N Sri Surya M	Soil Monitoring Using pH Sensor with IOT
9	ICWEE-114	Christy A	Identification And Classification Of Mangrove Trees Based On Morphological Specialization And Monitoring Their Spatio Temporal Distribution Using Deep Learning Techniques
10	ICWEE-115	Dahlia Sam	Urban Waste Management Using IOT
11	ICWEE -106	Sourab Baidya	Aspen Plus simulation of a Typical Co-Gasification System.
12	ICWEE- 192	Senthilkumar Gnanamani, Dawn S S, Bogam Santosh	Corrosion rate analysis in copper metallic strips exposed to biodiesel oil blends using machine learning techniques

		Lohit Mukesh Dunaboina	
13	ICWEE-124	M. Karthik	Adjustable Auto Cutoff for Home Appliance Using 555 IC
14	ICWEE-148	Dr Veena K	Improvement of e-waste collection planning using deep learning classifier
15	ICWEE-154	Dr. A. Shobana Devi	Mobile Integrated Smart Irrigation System Using IOT
16	ICWEE-178	Dr. S. Jancy	Waste Management using Machine Learning and Wireless Sensor Networks

23-09-2021 (Afternoon)

Session- 6: Energy engineering	Session chair: Dr. B. Jayakishan Associate Professor, Department of Mechanical Engineering, SSN College of Engineering
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 09	Harshavartthan A Umashankar P Keerthi Sriram S Siva Prasath A	Analyzing The Performance Of Black Plastic And Waste Material Sorter
2	ICWEE - 19	Selvaranjani C Ranjani R Manoj A Lekasri N Prathiba S	Automatic Oyster Mushroom Bag Preparation
3	ICWEE - 31	Kalyan V, Kowshiga A T, Selvi C, Vishwaaditya S	To Analyse The “Machine Dnd” (Its Influence On Dyeing And Impact On Environmental Health)
4	ICWEE - 44	Paarthasarathy M K Y	Fabrication Of Automatic Guided Vehicle
5	ICWEE - 45	Deva S B	Design And Fabrication Of River Cleaning Machine
6	ICWEE - 46	Suriya Prakash V	Pipe Inspection Robots
7	ICWEE - 47	Abhishek N S Ajay Kumar S Aravindh D Aravindha Raj A Arun S	Underwater Windmill
8	ICWEE - 41	Aravindh S, Cheran G K, Gowtham L, Monish Kumar M	Design & Fabrication Of Sugarcane Cutting Machine
9	ICWEE - 07	Gokul K Gokulpriyan G Ananda Geethan V Aravinthan P	Theoretical Analysis On The Performance Of The Vane Type Vacuum Pump For Different Tip Profile Of The Impeller Using CFD Fluent
10	ICWEE - 17	Mohan Kumar B	Experimental Investigation On Dehumidifier

		Navaneethakrishnan P Dharsan Jai Kumar P S Kavimani A	With Air Filter In Air Compressor For Painting Application
11	ICWEE - 50	Shyam Sundar B G	Effect Of Printing Parameters Of 3D Printed Pla Parts On Mechanical Properties

24-9-2021 (Forenoon)

Session- 7: Nanomaterials And Nanotechnology	Session chair: Dr. Kamalan K Research Scientist, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 30	Saptak Chakraborty Sreyash Biswas	Analysis On Effective And Cost-Efficient Desalination Process Using Graphene Nanopores.
2	ICWEE - 61	Latha. S	Evaluating The Feasible Feeding Strategies Of Selenium And Chitosan Nano Particles Using N-Acetyl-D-Glucosamine From Marine Disposal Area And Growth Effects Of In Nile Tailapia (Oreochromis Nilotics)
3	ICWEE – 01	R. Latha	Multi Faceted Role Of Silver And Gold Nanoparticles Synthesized From Biowaste And Its In Vitro Antibacterial, Anti Fungal Anf Antidiabetic Activities
4	ICWEE - 21	Jenin Joseph A, Janarthanam A, Kanagarajan E, Hariharan M N	Thermal Barrier Coating – An Overview
5	ICWEE - 38	Dr. Deena S Dr Nibedita Dey	Nanomaterials As Potential Electrode Materials For Microbial Fuel Cells
6	ICWEE - 58	Malam Kuldeep Vaidebhai	Response Of Wheat (Triticum Aestivum L.) On N, P And K Nano Fertilizers
7	ICWEE - 63	M. Priyadarshini	Sodium Ion Intercalation In Keggin Type Polyoxometalate As Cathode Material For Na-Ion Batteries
8	ICWEE - 64	L. Pushparaj	A Superhydrophobic Covalent Zeolitic Imidazolate Framework- Polyhedral Oligomeric Silsesquioxane Hybrid Material as a Highly efficient and reusable sorbent for organic solvents
9	ICWEE - 66	Dr. Rupak Kishor	Highly Stable Tetraethylenepentamine - Functionalized Mesoporous silica for CO2 capture
10	ICWEE - 67	Indirani.S	Selection and Synthesis of Thermal energy storage PCM with Silicon carbide for Bio-Medical Applications
11	ICWEE - 72	Senthilkumar A	Application of ANN and ANFIS techniques to predict Coefficient of performance in Al ₂ O ₃ / SiO ₂ hybrid nanolubricant vapour compression

			refrigeration system
12	ICWEE-128	Raja Veerappan Divyanjali	Application of nanotechnology and waste water treatment - review
13	ICWEE-179	S.P.Shanmuga Priya, Solomon Godwin Babu N D	Fertilizer Delivery System Based On “Novel Alginate-Silicate B Iocomposite Hydrogel

24-9-2021 (Forenoon)

Session- 8: Waste Management	Session chair: Dr. Sathish Associate Professor, Department of Chemical Engineering, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 05	Swetha Authilingam	Review On Hydrothermal Liquefaction Aqueous Phase As A Valuable Resource For Biofuels, Bio-Hydrogen And Valuable Bio-Chemicals Recovery.
2	ICWEE - 52	Archana R	Extraction Of Silica From Agriculture Waste
3	ICWEE - 62	N.Poornima	29SI And 27AL Mas-NMR Analysis Of The Industrial Waste Based Geopolymer And Their Microstructural Changes At Elevated Temperature
4	ICWEE -20	Narmatha J, Preetha S, Harine N	Low-Cost Housing
5	ICWEE - 73	Catherine Selvaraj	Design thinking and practices to utilize thermoplastics recovered from landfills as secondary resources in built forms and environments
6	ICWEE - 79	Marcus Miranda A	A closed loop sustainable approach for the floral waste management- A review
7	ICWEE - 80	S.Anitha, S S.Dawn, P.Rajaguru, S. Subis	Valorization Of Cow Dung To Organic Toothpaste – A Green Synthesis Route For Odour Abatement In Thooya Dairy Industry, Tamilnadu, India
8	ICWEE - 82	Douglas Marowa	Need For Sustainable Solution: Waste Management Dilemma As Electronic Waste Accumulates In Backyard And Homes In Zimbabwe
9	ICWEE - 84	Aditya Kumar Jha	UV Assisted Photocatalytic Degradation Of Tetracycline Using Biosynthesized Nano Zero Valent Iron (Nzvi) Particles
10	ICWEE - 91	Madhumitha Karthikeyan, Seetha Visalakshi Kumaraguruparan Arulmalar Ramaraj	Resource Recovery Through Urban Mining From C&D Waste
11	ICWEE -107	R. Sanjay Preeth	Muskmelon Seed Fibre And Its Application
12	ICWEE-139	S Aravind Ram	A comparative study of Cold Gas

			Efficiency of Indian Crop Wastes
13	ICWEE-141	R. Sai Nandhini Pooja sree R Vaishnavi M Nair	A review on nanobased drug delivery system in cancer: And its future prospects
14	ICWEE-150	G. Johnson, G. Mohan Kumar, A.B. Immaculate Angela, Dr. R. Kungumapriya	Bio Conservation Of Solid Waste Into Bio-Protein Feed: A Sustainable Approach
15	ICWEE-152	Swetha K Varshini V R	Resource Recovery From E-Waste
16	ICWEE-172	Jayati Mishra	Nutrient Content in Vermicompost production from livestock solid waste of indigenous and exotic cow breeds.

24-9-2021 (Forenoon)

Session- 9: Environment And Health	Session chair: Dr. Vinita Vishwakarma Professor, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 13	Aarthi.S, Akarshana.R, Buvana.K. R	Structural Health Monitoring
2	ICWEE - 2, 2(1)	Methaprasannan R Krishnamoorthy S	Safety Engineering And Occupational Health
3	ICWEE - 40	Nitheshkumar B, Gowthaman K S, Kesavamoothi C, Vivekanandhan S, Prakash S	Climate Change And Global Warming
4	ICWEE - 51	Monika Sharma	Seasonal Variation Of Soil From Semi-Arid Kachchh, Gujarat: Quality Assessment In Terms Of Chemical Constituents And Microbial Characteristics
5	ICWEE - 68	Arpita Roy	Inhalation Risks From Metals In Particulate Matter Of Ranchi And Jamshedpur.
6	ICWEE - 69	Abhishek Kumar	Valorization Of Orange Peel Waste-Derived Biochar For Efficient And Ecofriendly Removal Of Arsenic From Indo-Gangetic Sub-Tropical Silty Loams: Stepping Towards Sustainable Management Of Arsenic Pollution
7	ICWEE - 74	Dr. J. Pandiarajan	Gut Microbes Harbor Antibiotic Resistance In Cotton Worm <i>Spodoptera Litura. L</i>
8	ICWEE - 85	Dr. S. Muthukrishnan	Screening And Characterization Of Bioactive Compounds From The Endophytic Microfungal Diversity In Leaf Samples
9	ICWEE - 86	Prakathi.P	Screening And Characterization Of Bioactive

			Compounds From Endophytic Microfungal Diversity In Medicinal Plant Samples In Sivakasi
10	ICWEE - 87	Sreejit Valiathan	Preparation And Characterization Of Ecofriendly Lesser Yam (<i>Dioscorea Esculenta</i>) Starch Edible Film Reinforced With Tapioca (<i>Manihot Esculenta</i>) Starch Nanocrystals Synthesized By A-Amylase Treatment Combined With Mild Acid Hydrolysis.
11	ICWEE - 92	Prathapavarma Digala	Optimization Of The Extraction Of Sulphated Polysaccharides From Sargassum Polycystum Using Response Surface Methodology Bbd Experimental Design
12	ICWEE - 93	Dr. S. Mahendran	Antibiotic Sensitivity And Microbial Fuel Cell Potential Of Actinomycetes <i>Streptomyces</i> Sp From Western Ghats, India
13	ICWEE-153	Karthiga. P	Studies On Ion Exchange Resin Obtained from Sufhonated Carbon In Water And environment
14	ICWEE-166	Megavardhini V Nishanthini S	Production of amylase enzyme from fungus isolated from cassava waste
15	ICWEE-173	Dr. L.Sujihelen	Analysis and Segregation of Household Electronic Waste Management Using IoT and CNN Algorithm
16	ICWEE-174	Dr. Rajasekar Thirunavukkarasu	Utilization of seaweed-based liquid organic fertilizer on commercial important plants to stimulant germination and growth

24-9-2021 (Afternoon)

Session- 10: Environment And Health	Session chair: Dr. D. Balaji Associate Professor, Department of Chemical Engineering, SSN College of Engineering
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 94	P. Maheswari	Synthesis And Characterization Of Bioplastic Production From <i>Citrobacter Freundi</i>
2	ICWEE - 98	Aravind Anilkumar Muttathil, Ganni Bilvik Sri Sai Chandu	Polypropylene Degradation Methods
3	ICWEE - 99 ICWEE - 99 (1)	Aravind T PA Pranesh Kk	Experimental Study On Leachate Movement Control And Treatment Using High Density Poly Ethylene (Hdpe) Sheets
4	ICWEE - 101	Dr. V. Karthick	Chlorambucil Incorporated Poly(Lactic-Co-Glycolic Acid) Microspheres For Targeted Drug Delivery Applications
5	ICWEE - 102	Sakthinarendran S	Comparative In-Vitro And In-Vivo Toxicity Assessment of Polystyrene Microsphere And <i>Bacillus</i>

			<i>Subtilis</i> Synthesized Poly Hydroxybutyrate (Bioplastic) Microsphere In <i>Lates Calcarifer</i>
6	ICWEE - 103	Esha Varma Shetty Ambika Shekar Sirivibha S P Dhanyashree J K	Biosorption Of Ni(II) Ions Using Sugarcane Bagasse In Batch And Packed Bed Column
7	ICWEE - 107 (4)	Rajalakshmi D Sneha Xavier	Utilization Of <i>Coriandrum Sativum</i> And Its Fibre For Phytostimulation And Bioremediation Studies
8	ICWEE - 107 (6)	S. Saigeetha	Utilization Of Plant Latex In Plant Growth, Dye Removal And Other Biological Applications
9	ICWEE - 100	Sri Boushali M	An Experimental Study On Optimization Of Micro Drilling Process Parameters Of Bronze Using Taguchi Method.
10	ICWEE-121	Sivasakthi M	Investigation By Varying The Alkali Concentration On Thermal Properties And Microstructure Of The Fly Ash Derived Geopolymer Mortar
11	ICWEE-138	Dr S. N. Nisha Anindita Bhar Jaswanth Reddy Modium Sanjeev Kumar G	Emerging water pollutants: A review on the detection and degradation strategies
12	ICWEE-149	M.Viswanathan	Zinc oxide based Gratzel cells employing anthocyanin dye sanitizers
13	ICWEE-156	Sujin Choi	Machine learning aided feature selection for predicting propionic to acetic acid ratios based on SHAP values
14	ICWEE-180	S Pradeep Kumar	A review on the current Discoveries and Prospects of Microbial Fuel Cells
15	ICWEE-183	Anamika Debbarmas	Evacuation of Heavy metals contamination from the environment using Phytoremediation: Acceptable Technology

24-9-2021 (Afternoon)

Session- 11: Wastewater Treatment	Session chair: Dr. D. Gnanaprakash Associate Professor, Department of Chemical Engineering, SSN College of Engineering
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S. No	Paper Id	Presenting Author	Title
1	ICWEE - 15	Sreelakshmi C	Recovery Of Nitrogen And Phosphorus As Struvit From Waste Water Using Bioelectrochemical Process : A Review
2	ICWEE - 32	Gokul V Vishal K S Santhosh P	Processing Of Dying Waste Water And Efficiency Treated For Agriculture Application

3	ICWEE - 36	Vignesh S, Shri Krishna Kumar P, Tamil Muhilan T	Performance Analysis Of Organic Seeds-Based Home Water Purifier System
4	ICWEE - 54	Anju Maria Mathew, Neha Rao P S	Removal Of Fluoride From Water Using Mg-Hap Composite
5	ICWEE - 57	B. Manimekalai	Removal Of Arsenic From Aqueous Solution By Using Aged Refuse As Synthesized Bio Adsorbent And Their Effects On The Response Of Metal Removal Efficiency
6	ICWEE - 53	Dr. A.B. Sathya	Remediation Of Oil Spill Contaminants: Biological Practices.
7	ICWEE - 65	Anuja	Distillery effluent: wastewater or valuable resource recovery option?
8	ICWEE - 70	Saubhagini Sahoo	Urban wastewater effluents contribute to the emergence of carbapenem resistance <i>Acinetobacter baumannii</i> and toxic metals in a receiving river system: A report from the eastern part of India
9	ICWEE - 75	A. Muthuraman	Analogy of Water Qualities in Selected Habitats of <i>xancus pyrum</i> (india scared chank) in gulf of mannar.
10	ICWEE - 78	Dr. R. Devika	Bioremediation Of Battery Effluent – A Futuristic Approach
11	ICWEE-120	M. Vasanthi	N,P Resource Recovery As Struvite From Wastewater To Utilize As A Fertilizer For The Growth Of <i>Solanum melongena</i>
12	ICWEE-123	Rakhee.B	A Review on <i>Annona squamosa</i> and its Applications for Wastewater Treatment and Pollution Prevention
13	ICWEE-151	Dharsen M V Ramachandran	Bioremediation and Valorization of Oil spill clean-Up : A Circular Economy Approach
14	ICWEE-157	SuminYang	Effect of heavy metals on microorganism in the domestic wastewater treatment plant
15	ICWEE-162	Arun.K.G	Treatment of petroleum discarded water using (Advanced oxidation processes) AOPS

24-9-2021 (Afternoon)

Session- 12: Environment and Health	Session chair: Dr. Gobi Saravanan Research scientist, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology
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S. No	Paper Id	Presenting Author	Title
1	ICWEE-125	P. Grace Kanmani Prince	Dr. Dispose – A Smart Bin for disposal of infectious medical waste

2	ICWEE-127	Vinodhini. P	Preparation Of Ruthenium Complexes Infused Polycaprolactone Electrospun Nanofibres(Pcl- Ru) And Their Vitro Anti Cancer Activity Against Human Tested Cancer Cell Lines
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