

ICMCESA-2022

22 - 28 February 2022

Schedule Technical Sessions

Technical Session I (Oral Presentation); Date: Feb 23, 2022; Time: 1130-1330 hrs	
Room A	Room B
https://us02web.zoom.us/j/82092465520?pwd=U3JVUUczU2hGR3c5TGpLbnV-6VWdyUT09	https://zoom.us/webinar/register/WN_1JHmgh1xR0a_jDjpDZoxNA
<ol style="list-style-type: none"> 1. Influence of sowing time and nitrogen level on the phenology and accumulated heat units in garlic in mid hills of Himachal Pradesh <u>Kanchan Kundlas</u> and Mohan Singh 2. A Typical Everyday Exposure to Particulate Matter in the Life of an Undergraduate Student in Delhi Arijit Chowdhuri, Jay Kumar Sirmoria, <u>Sruthi S. Kumar</u> and Charu Khosla Gupta 3. Effect of Aerosols on Climate Change <u>Rajesh Yadav</u>, Sonal Soubya, Priyanshi Saini and Abhishek Kumar Shrivastava 4. Temperature Trend Analysis over Mid Hills of Himachal Pradesh using the Mann-Kendall Test & Sen's Slope Estimation Method <u>Priyanka Jattan</u> and Mohan Singh 5. Ecopreneurship: An Emerging Concept in India <u>Swetanshu</u> and Pratichi Singh 6. An infinitesimal pollutant – Microplastics <u>Tupti Sumam</u> and Nageswara Rao Amanchi 7. The Effects of Climate Change on the Plant-pollinator Relationship <u>Mridula Rani</u>, Charu K Gupta, Yash Mangla and Mayank Yadav 8. Student-driven Interdisciplinary course on Environmental Consciousness for Young Minds in the direction of Environmental Sensitization and beyond - Yejoor Chawla and Gautam R. Pisharadi 9. Effect of Heavy Metal Nanoparticles on Ciliates <u>Ashish Arora</u>⁽¹⁾, Sandeep⁽²⁾, Swati Maurya⁽²⁾, Jyoti Dagar⁽²⁾, Drashya⁽²⁾, Geetu Gambhir⁽²⁾, Ravi Toteja⁽²⁾ and Seema Makhija⁽²⁾ 10. Microbial Siderophore and its Applications <u>Shivangani Sharma</u>⁽¹⁾, Swati Maurya⁽²⁾, Sandeep⁽²⁾, Jyoti Dagar⁽²⁾, Ajay Kumar⁽¹⁾, Seema Makhija⁽²⁾ and Ravi Toteja 	<ol style="list-style-type: none"> 1. Real-Time Mask Detection Using CNN & Tensor Flow Amartya Sinha, <u>Yash Lohia</u> and Vibha Gaur 2. Sentiment Analysis of Public Opinion on Solar Energy <u>Rajat Sharma</u>, Ravneet Kaur and Vibha Gaur 3. Comparative Analysis of Energy Consumption in Cryptomining for Environment Sustainability Ayushi Sharma, <u>Harsh Bamotra</u>, Pratham Sharma and Vibha Gaur 4. Comparative Analysis of Flood Vulnerability Techniques for Detecting Area Specific Indicators <u>Deepanshu</u>, MeghaKarki, Shruti Jain, Sunita Narang and Harita Ahuja 5. Analysis and Prediction of Ground-Water Quality of India Using Linear Regression <u>Tanisha Sharma</u>, Jyotika Sharma and Vibha Gaur 6. Microcontroller Based Sensor Assisted Weather Monitoring System. Ritesh Raj, <u>Sagar Bisht</u>, Mukhtair Ali, AnjuAgrawal and Ravneet Kaur 7. Compartmental Model for Traffic Congestion <u>PushkarPandey</u>⁽¹⁾, Kunal Pant⁽²⁾ and SaritaAgarwal⁽³⁾ 8. CHAR-TOPSIS: A Novel Approach to Rank Asian Countries for Safety Measures during Covid-19 Pandemic <u>Anindita Panda</u>, Sant Kumar, Abhishek Kumar Prajapati, Harita Ahuja and Sunita Narang 9. Data Analytics for Delhi Pollution Amit, <u>Ramit Yadav</u>, RavneetKaur and Vibha Gaur 10. Health Aware Preventive Recommender System - A Novel Framework using Localised Air Pollutant Prediction <u>Devansh Sharma</u>, Tishya Thukral, Rahul Basu, Vandita Grover 11. Making use of ZnO thin films for UV photodetection for measuring germicidal radiation <u>G. Kuksal</u>, M. Kaish, Y. Kumar and R. K. Meena



Technical Session II (Oral Presentation); Date: Feb 23, 2022; Time: 1530-1730 hrs

Room A	Room B
https://us02web.zoom.us/j/82092465520?pwd=U3JVUUczU2hGR3c5TGpLbnV6VWdyUT09	https://zoom.us/webinar/register/WN_e9vs3M27TTGHYQ8KcG-1EQ
<ol style="list-style-type: none"> Bioaccumulation, Removal and Detection of Heavy Metals Using Microorganisms <i>VanyaGarg⁽¹⁾, Sandeep⁽²⁾, Swati Maurya⁽²⁾, Jyoti Dagar⁽²⁾, Anupam Prakash⁽¹⁾, Ravi Toteja⁽²⁾ and Seema Makhija⁽²⁾</i> Endophytic Fungi Diversity in Mangrove Plants from Northern Kerala <i>Paul Joshi and Jeyabalan Sangeetha</i> Environmental Impact Assessment of Kaleshwaram Lift Irrigation Project, Telangana – A Review <i>Matta Vineetha and Nageswara Rao Amanchi</i> The Effects of Air pollution on Human Health <i>Aishwary Kumar Chaturvedi, Yash Mangla and Charu Khosla Gupta</i> Mitigating Air Pollution through <i>Pleurotus eryngii</i> (King Oyster Mushroom) : A Concept <i>MohdAfham*, Vridhi Singh*, Mrityunjoy Chakraborty*, Vineet Kumar Singh, Manoj Kumar Singh and Sumit Sahni</i> Environmental Awareness and Attitudes Towards Environmental Worldviews of Indian University Students <i>Shivani Dayal</i> Analyzing Perceptions regarding Health Effects of Ambient Air Pollution: A Case Study of Delhi <i>Dyuti Agrawal, Tanu Jindal</i> Review on various bioremediation techniques for the treatment of environmental pollutants <i>Bhavna Kumari</i> Green Finance: sustainable financial solution to India's green endeavours <i>Sanjay Kumar, V. Bhaskar Raj, Rakhee Chauhan, Mamta and Saundaraya Singh</i> 	<ol style="list-style-type: none"> Electrical and Optical Study of ZnO thin film-based UV photodetector <i>Babita Sharma, Kajal Jindal, Reema Gupta, Arijit Chowdhuri and Monika Tomar</i> WO₃ and WO₃-SnO₂ composite based sensors for detection of NO₂ gas <i>Jatinder Pal Singh, Kalpajit Roy, Prahlad Sharma, Varnika Agarwal, Anjali Sharma, Monika Tomar and Arijit Chowdhuri</i> Studies on Photovoltaic properties of WO₃/BFO bilayer thin films for solar energy harvesting applications <i>Shiva Lamichhane, Savita Sharma, Monika Tomar and Arijit Chowdhuri</i> Al₂O₃/CuI/PANI Catalyzed One Pot Synthesis of 2,3-Dihydroquinazolin-4(1H)-ones under Green Solvent Conditions <i>Sahil Kohli, Ramesh Chandra, Sunita Hooda</i> Green Synthesis and Biological Evaluation of Spirobarbiturates Using Zebra Fish Model for Physiological and Behavioral Assays: Green Chemistry for Designing a Sustainable Future <i>Devanshi Magoo, Soma M. Ghorai, Padmashree Mudgal and Soni Rani</i> Improvement of Characteristics and Adsorption Performance of Chitin for Rhodamine 6G By Sonication <i>Drashya Gautam⁽¹⁾, LaishramSaya^(1,2,3), Geetu Gambhir⁽¹⁾ and SunitaHooda⁽¹⁾</i> Highly Conducting Biodegradable Polymer Electrolyte Film for Supercapacitor Application <i>Kouao Dujearic-Stephane, Neha Taneja, Namrata Agrawal, Ashwani Kumar, Pushpa Singh, Bharti, Meenal Gupta and Yogesh Kumar</i> Role of GO Composite in Detecting Hydrogen Gas <i>Rupali Pandey, Sandeep Singhania, Anju and Amit Garg</i>



Technical Session III (Oral Presentation); Date: Feb 24, 2022; Time: 1130-1330 hrs

Room A	Room B
https://us02web.zoom.us/j/87536608750?pwd=dDIwdmpkcDJRRlZBTmZDS3BIS-2M1Zz09	https://zoom.us/webinar/register/WN_1JHmgh1xR0a_jDjpDZoxNA
<ol style="list-style-type: none"> 1. Exploring urban stressors: A citizen science approach with primary school pupils <i>Rok Novak, Davor Kontić and David Kocman</i> 2. Ethno-botanical study and conservation strategies of selected plant species in Union Territory of Ladakh <i>Sakina Banoo, Anzar Ahmad Khuroo and Aijaz Hassan Ganie</i> 3. Comparative analysis of Vegetation and Urbanization at Porbandar city of Saurashtra through geospatial techniques <i>Kavya Tanna, Sanjay Teraiya and Jigna G. Tank</i> 4. Assessment of Air Quality Index (AQI) in Urban Areas of Himachal Pradesh <i>Kartikey Sahil and Satish Kumar Bhardwaj</i> 5. Physico-chemical and Nutrient Analysis of Copper Oxy-chloride Fungicide Applied and Non-Applied Soil Samples of Rubber Plantation in Kasaragod, Kannur, Kozhikode and Wayanad Districts of Northern Kerala <i>Steffi Simmi Maxim and Jeyabalan Sangeetha</i> 6. Avian Diversity Nearby Mama JiKa Pond Loharwa, Barmer, Rajasthan <i>Sunil Khati and B. R. Jaipal</i> 7. Biopesticide: An alternative for synthetic pesticide <i>Tupti Sumam, Matta Vineetha and Nageswara Rao Amanchi</i> 8. Effect of Diflubenzuron Exposure on the Physiological and Reproductive Fitness of <i>Aedes aegypti</i> L. <i>Manu Sankar*, Divya, Sarita Kumar</i> 9. Insights into the morphological and systematic position of a new species, <i>Gastrostyla indica</i> n. sp. (Protozoa, Ciliophora) isolated from Delhi, India <i>Jeeva Susan Abraham, Sripoorna, Somasundaram, Swati Maurya, Renu Gupta, Ravi Toteja, Seema Makija</i> 	<ol style="list-style-type: none"> 1. DNA damage and repair mechanism under pesticide stress – An overview <i>Sruthi Pillai and Nageswara Rao Amanchi</i> 2. Environmental awareness and demographic trends: A case study of the native population of river Bharathapuzha (Kerala) <i>S.G. Gopika Unni and K.M. Remia</i> 3. Environmental Toxicology: Sources and Effects of Heavy Metals and Possible Ways of Mitigation <i>Maleeha Taqdees Malik and Ira Khan</i> 4. Exploring the Correlation between Acute Respiratory Infection & GDP in different states of India: A Bio-economic perspective using Kuznet curve <i>Tripti Singh and Ashwani Mathur</i> 5. Anthropogenic Impacts on Phytoplankton Community and Environmental Conditions of Dhamara Estuary, East Coast of India <i>Subhasree Swagatika Mohanty, Manas Barik, K.C. Sahu and C.R. Panda</i> 6. Reconstruction of Palaeoenvironment of the Late Quaternary sediments of the KanwarTaal Lake, Begusarai, Bihar, India <i>Supriya Kumari, Ram Kumar, Kamlesh Kumar, Anupam Sharma and Dhruv Sen Singh</i> 7. Effects of acetamiprid-exposure on oxidative stress parameters in rat liver tissue <i>Annu and Vinay Malik</i> 8. Plastic Waste Dumping in the Kadalundi Estuary as a Major Health Concern for Human and Fish – A Review <i>C K. Sreeparvathi, K M. Remia and K S. Anoop Das</i>

Technical Session IV (Oral Presentation); Date: 24 Feb 2022; Time: 1530-1730hrs

<https://us02web.zoom.us/j/87536608750?pwd=dDIwdmpkcDJRRlZBTmZDS3BIS2M1Zz09>

1. **A comparative study of physico-chemical parameters and ciliate diversity of leachate contaminated soil from the landfill and the soil from Jah-anpanah City Forest.**
Swati Maurya⁽¹⁾, Jeeva Susan Abraham⁽¹⁾, Sripoorna Somasundaram⁽¹⁾, Sandeep⁽¹⁾, Jyoti Dagar⁽¹⁾, Renu Gupta⁽²⁾, Seema Makhija⁽¹⁾, Pooja Bhagat⁽¹⁾ and Ravi Toteja⁽¹⁾
2. **Heavy Metal Bioremediation by Ciliates**
Jyoti Dagar, Sripoorna Somasundaram, Swati Maurya, Jeeva Susan Abraham, Sandeep, Ravi Toteja and Seema Makhija
3. **Assessment of Heavy Metal Concentration in River Yamuna**
Sandeep, Sripoorna Somasundaram, Swati Maurya, Jeeva Susan Abraham, Jyoti Dagar, Seema Makhija, Pooja Bhagat and Ravi Toteja
4. **Screening of Soil Samples from Different Natural Environments to Check the Emergence of Resistant Yeast Strains from Soil to Clinical Settings**
Anamika Yadav⁽¹⁾, Anuradha Chowdhary⁽²⁾ and Hardeep Kaur⁽¹⁾
5. **Screening and Molecular Analysis of Antifungal Compounds from *Streptomyces* Spp. Against Pathogenic Fungi**
Harsha
6. **Antidiabetic Activity of *Cyphostemma auriculatum* Roxb. Green Mediated Agnps in Alloxan Induced Albino Mice**
Kishore Mendam, S. Jithender Kumar Naik, Anusha C. Pawar, V. Mangesh, S. Vamshi and Y. Kumar
7. **N-acetylcysteine protect against monocrotophos exposure induced oxidative stress and apoptosis in hepatic tissue**
Jagjeet Singh and Vinay Malik
8. **Screening, identification and characterization of biofilm-inhibiting mycobacteriophages**
Kanika Nadar, Ritu Arora and Urmi Bajpai

Technical Session V (Oral Presentation); Date: 25 Feb 2022; Time:1130-1330hrs

<https://us02web.zoom.us/j/89795036663?pwd=Tm9WRmxmUmdza0FVY1JycDd1M3ZNZz09>

1. **Resource politics, coal mining and the pursuit of sustainability in Meghalaya** -[Ripamchi A. Sangma](#)
2. **Optimizing Supply Chain Model for Stock-Dependent Price Elasticity of Demand and Carbon Emission**
[Majhar Alam](#) and Chaman Singh
3. **Connecting young minds to Nature**
[Gafoor Unnisa](#), Maqbool Ahmed
4. **An analysis of a mathematical model of Tuberculosis disease by using fractional derivative**
[Pooja Khoda](#)
5. **Chaos Control in a Three Species predator-prey system**
Itendra Kumar
6. **Study the effect of modified Newtonian force on the restricted 3-body configuration in non-linear sense**
Bhawna Singh

Technical Session VI (Oral Presentation); Date: Feb 25, 2022; Time: 1530-1730hrs

Room A

<https://us02web.zoom.us/j/89795036663?pwd=Tm9WRmxmUmdza0FVY1JycDd1M3ZNZz09>

1. **Sustainable Development Goals for Cities: A Case Study of Delhi**
[Dr. Rakhee Chauhan](#) and Ms.Saundarya Singh
2. **Adverse effect of urea on the loss of soil biodiversity: a case study on earthworm (Drawidawillsi)**
[Anindita Bhattacharya](#) and Sanjat Kumar Sahu
3. **People perception on human-elephant conflict around DeeporBeel Wildlife Sanctuary of Assam, India**
[Prabal Sarkar](#), [Anindita Bhattacharya](#) and [Biren Chandra Borah](#)
4. **Insect Biodiversity as Bioindicator for Sustainable Development in a Desert Ecosystem**
[Rita Rath](#), [Neeraja Sood](#) and [Sadhna Gupta](#)
5. **Environmental Laws and Policies in India**
[Sadhna Gupta](#), [Rita Rath](#) and [Neeraja Sood](#)
6. **Ecopreneurship and Consumers' Perception**
[Charu Kalra](#), [Monika Bansal](#) and [Nisha Rana](#)
7. **Safe Drinking Water and Human Health: The Challenges Before India**
[Neeraja Sood](#), [Sadhna Gupta](#) and [Rita Rath](#)
8. **Characterization of stress-inducible genes in freshwater ciliates by molecular methods for surveying water quality**
[S. Sripoorna](#), [Jeeva Susan Abraham](#), [Swati Maurya](#), [Ravi Toteja](#), [Renu Gupta](#) and [Seema Makhija](#)
9. **A Sustainable Developmental Approach for Ecological Landscaping in Deshbandhu College**
[Sunil Kayesth](#), [Rajiv Aggarwal](#), [Sourabh Singh Deo](#), [Sashwat Bhattacharya](#), [Mohd Shazad](#), [Kamal Kumar Gupta](#) and [Ashwini Kumar Singh](#)

Room B

https://zoom.us/webinar/register/WN_e9vs3M27TTGHYQ8KcG-1EQ

1. **Classification of the vapours of fuels, simulants of nerve agents, and VOCs by optimizing Artificial Neural Network**
[V. Bhasker Raj](#), [Sanjeeta Rani](#), [Manisha Verma](#), [Sanjay Kumar](#), [Mamta](#), [A.T. Nimal](#)
2. **Optimizing Perishable Inventory Model for Carbon Emission and Expiring Items**
[Gurudatt Rao Ambedkar](#) and [Chaman Singh](#)
3. **Evaluating N-shaped Environmental Kuznets Curve for FDI Flows in India: An ARDL Bound Test Approach**
[Rinku Manocha](#)
4. **PLD Grown In₂Se₃ Thin Films for Realization of High Performance Self-powered UV Photodetector**
[Kajal Jindal](#) (1), [Chanchal](#) (2,3), [Monika Tomar](#) (4), [Pradip Kumar Jha](#) (2)
5. **Bio-nanocomposite of Guar Gum Decorated with Iron-oxide Nanoparticles as Promising Adsorbent for Reactive Green 19 Dye**
[Laishram Saya](#) (1,2,3), [Drashya Gautam](#) (2), [Geetu Gambhir](#) (2), [W. Rameshwar Singh](#) (3) and [Sunita Hooda](#) (2)
6. **Cost determination with two level permissible delay and cash discount for retailer in a multi-level supply chain system**
[Narayan Singh](#) and [BrijendraYadav](#)
7. **Population trends of Blackbucks in Ganjam district, Odisha**
[Kiranbala Panigrahi](#), [Sakti Prasad Pattnayak](#), [Priyanka Jena](#) and [B. Anjan Kumar Prusty](#)



Technical Session VII (Oral Presentation); Feb 26, 2022; Time: 1130-1330 hrs

<https://us02web.zoom.us/j/88968598639?pwd=YjFqajdDZGNtYlY5QlcyVHpnRlU3dz09>

- 1. Does Auxin and Melatonin Interaction Palliate Heavy Metal and Metalloid Toxicity in Plants?**
[Anita Thakur](#), [Geetika Kalra](#) and [Soumya Mukherjee](#)
- 2. Mass Propagation of Arid Zone Tree Legumes**
[Anita Narang](#), [Anupama Shukla](#), [Sumit Sahni](#), [Manoj Kumar Singh](#)
- 3. Laterite Habitats of Malabar Region in Kerala: A Rescue Call**
[Shijith Puthan Purayil](#)
- 4. Ecology and Diversity of Subterranean Termites in Bhadrachalam Forest Region, Telangana, India**
[Nageswara Rao Apka](#), [SandhyaNaram](#) and [Kranthi Kumar](#)
- 5. A Comparative Study of 5-Fluorouracil, Doxorubicin, Methotrexate, Paclitaxel for Inhibition of Mpro of nCoV: Molecular Docking and Temperature Dependant Molecular Dynamics Simulations**
[Madhur Babu Singh](#), [Vijay Kumar Vishvakarma](#), [Kamlesh Kumari](#), [Pallavi Jain](#) and [Prashant Singh](#)
- 6. Impact of Temperature on structural changes in nsp2 and nsp3 of CHIKV: Molecular dynamics simulations**
[Durgesh Kumar](#), [Mahendra Kumar Meena](#), [Vinod Kumar](#) and [Prashant Singh](#)
- 7. Biotechnological Interventions in Citrus: Current and Future Prospects**
[Savita](#)
- 8. Impact of Air Pollution on Type-1 Respiratory/ Allergic Disorders**
[Shashi Chawla](#)
- 9. Mitigation environmental issues with enigmatic Laboulbeniomyces**
[Riya Dayal](#), [Maniket Chauhan](#), [Anupama Shukla](#), and [Anita Narang](#)

Technical Session VIII (Oral Presentation); Feb 26, 2022; Time:1530-1730 hrs

<https://us02web.zoom.us/j/88968598639?pwd=YjFqajdDZGNtYlY5QlcyVHpnRlU3dz09>

- 1. Examining the Impact of Adoption of Minimalistic Approach in Clothing on Sustainability**
[Harikishni Nain](#)
- 2. Synergic Catalysis Through Functionalized MCM-41: A Benign and Environmentally Friendly Route to Organic Synthesis**
[Sharda Pasricha](#), [Kavita Mittal](#), [Pragya Gahlot](#)
- 3. A Study on Environmental Efficacy of Air-purifiers Vis-à-vis Features and Cost Benefits**
[Sandeep Kumar Goel](#), [Priyanka](#), [Arijit Chowdhuri](#) and [Charu Khosla Gupta](#)
- 4. Measuring Complexity and Chaos in Three - Species Food Chain System with Mixed Selection of Functional Response**
[Sada Nand Prasad](#)
- 5. Acetylation of Alcohols, Phenols and Amines Using Green Methods**
[Rashmi Thukral](#) and [Somya Singh](#)
- 6. Modelling and Analysis of Fuzzy Sustainable Inventory Model for Deteriorating Item with Controllable Carbon Emissions and Preservation Technology**
[Yogendra Kumar Rajoria1](#), [*DeoDatta Aarya2](#)
- 7. Analysis of halo orbits under the mass variation effect in cr3bp**
[Abdullah Ansari](#)
- 8. Self Biased Dual Energy Harvester using Multiferroic Cantilevers**
[Reema Gupta](#), [Vandana](#), [Lokesh Rana](#), [Monika Tomar](#) and [Anjali Sharma](#)

