

SCIENTIFIC PROGRAMME

National Conference

on

RECENT TRENDS & CHALLENGES IN GREEN CHEMISTRY,
POLLUTION CONTROL AND CLIMATE CHANGE [GPCC-2023]

14th – 16th December 2023

Jointly Organized By



National Environmental Science Academy
(New Delhi)



CSIR - National Botanical Research Institute
(Lucknow)

Venue :-

CSIR- National Botanical Research Institute, Lucknow

Sponsored by



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PROGRAMME SCHEDULE

DAY - 1

14th December, 2023 (Thursday)

Inaugural Session and Award Ceremony

Time: 10:00 AM to 11.30 PM

Venue: Lotus Auditorium, CSIR-NBRI

9:00-10:00	Registration of Participants to GPCC – 2023 by NESAs Officials
9:30-10:00	High Tea
INAUGURAL FUNCTION	
10:00-10:05	Dignitaries to the Venue.
10:05-10:10	Lighting of the Lamp by the Dignitaries & Saraswati Vandana
10:10-10:15	Welcome Address by Dr. Ajit Kumar Shasany, Director, CSIR-NBRI
10:15-10:20	Introduction of National Environmental Science Academy, New Delhi by Dr. Javed, President, NESAs
10:20-10:25	About the Conference GPCC – 2023 by Dr. Pankaj Kumar Srivastava, Organizing Secretary and Senior Principal Scientist, CSIR-NBRI
10:25-10:30	Release of the Abstract Book of GPCC – 2023
10:30-11:00	NESAs ANNUAL AWARD CEREMONY for the Year 2023 <ul style="list-style-type: none">✓ NESAs HONORARY FELLOWSHIP✓ NESAs FELLOWSHIP✓ NESAs EMINENT SCIENTIST✓ NESAs INTERNATIONAL SCIENTIST✓ NESAs GREEN TECHNOLOGY INNOVATIVE AWARD✓ NESAs DISTINGUISHED SCIENTIST AWARD
11:00-11:15	Address by the Chief Guest Dr. Devesh Chaturvedi IAS, Additional Chief Secretary, Govt. of U.P.
11:15-11:20	Felicitations of the Chief Guest, Felicitations of the Organizing Committee Members and NESAs Officials.
11:20-11:25	Vote of Thanks by Dr. RS Tomar, Assistant Registrar, RLB Central Agricultural University, Jhansi.
11:25	National Anthem
11:26-11:30	Group Photograph at CSIR-NBRI Lawn

First Technical Session {Day 1 - 11:30 to 13:20}

Venue: Lotus Auditorium, CSIR-NBRI

Chairperson: Dr. Pramod Kumar Tandon, Chairman, NASI Lucknow Chapter Co-Chairperson: Dr. Mahendra P. Darokar, Chief Scientist, CSIR Rapporteur: Dr. Sanjeeva Nayaka, Chief Scientist, CSIR-NBRI, Lucknow	
11:30-12:00 Inaugural Talk	<i>Metabolic Engineering for Climate Resilient Agriculture.</i> Dr. Ajit Kumar Shasany , Director, CSIR – National Botanical Research Institute, Lucknow
12:00-12:20 Keynote Talk	<i>A baseline investigation on the occurrence of Microplastics in the surface water of Chandragiri Puzha and Kavvayi Backwaters, Kasaragod, Southwest coast of India.</i> Prof. Shaik Mohammad Hussain , Professor & Head, Dept. of Geology & Director - Research Schemes & Projects, University of Madras, Chennai
12:20-12:40 Keynote Talk	<i>Energy-Efficient Building towards Climate Change Mitigation.</i> Dr. Sanjukta Sahoo , Head, Department of Civil Engineering, KIIT, Kolab Campus, Bhubaneswar.
12:40-13:00 Keynote Talk	<i>Innovating for a Greener Future: An Analysis of Green Technology Solutions implemented onboard Research Ships to enhance techno-economical benefits.</i> Dr. D. Rajasekhar , Scientist-G & Group Director-Vessel Management Cell, National Institute of Ocean Technology, Chennai.
13:00-13:20 Keynote Talk	<i>Application of foraminifera for ecology and pollution monitoring studies- east coast of India.</i> Dr. M. Suresh Gandhi , Department of Geology, University of Madras, Chennai.

LUNCH BREAK [13:20-14:20]

Special Session {Day 1 - 14:30 to 15:45}

3rd Prof. Sushil Kumar Memorial Oration & SKIA-2023 by Flora Fauna Science Foundation

Venue: Lotus Auditorium, CSIR-NBRI

14:30-14:35	Arrival of the Guests & Floral Welcome
14:35-14:45	Remembrance and initiation by Prof Suman PS Khanuja, Founder Chairman, FFSF
14:45-14:50	Introduction of Speaker Prof Sudhir K Sopory, Former VC, JNU by Dr MP Darokar, Chief Scientist, CSIR
14:50-15:30	'3 rd Prof Sushil Kumar Memorial Oration' by Prof Sudhir K Sopory on 'Abiotic stress tolerance strategies to mitigate crop losses'
15:30-15:35	Remarks by Dr Ajit K Shasany, Director, CSIR-NBRI
15:35-15:37	Presentation of Citation to Prof Sudhir K Sopory by Founder Chairman, FFSF
15:37-15:42	Announcement of 'Prof Sushil Kumar Innovation Award (SKIA-2023)' by Dr Anil K Singh, Convener, SKIA Jury & VP, FFSF
15:42-15:43	Presentation of Award by Chief Guest and Founder Chairman, FFSF
15:43-15:45	Vote of thanks by Dr Sunita Singh Dhawan, Sr. Principal Scientist, CSIR-CIMAP

TEA BREAK [15:45-16:00]

First Technical Session {Day 1 - 16:00 to 19:15}: Oral Presentations

Venue: Lotus Auditorium, CSIR-NBRI

Theme: Pollution and its Mitigation

Chairperson: Prof. S. M. Hussain, Prof & Head, Dept. of Geology University of Madras, Chennai

Co-Chairperson: Dr. R. D. Tripathi, NASI Senior Scientist

Rapporteur: Dr. Dibyendu Adhikari, Principal Scientist, CSIR-NBRI, Lucknow

16:00-16:15	<i>Heavy Metal Immobilization in Municipal Solid Waste Compost by using Amendments.</i> Dr. M. R. Backiyavathy , Dept. of Natural Resource Management, Horticultural College and Research Institute, Periyakulam.
16:15-16:30	<i>Unmanaged Municipal Solid Waste in the Rural Areas of Kashmir Region: Insights into Composition, Energy Potential, and Environmental Implications.</i> Dr. Khalid Muzamil Gani , Department of Civil Engineering, National Institute of Technology, Srinagar.
16:30-16:45	<i>Green chemistry approach for sustainable water treatment.</i> Dr. Navish Kataria , Department of Environmental Sciences, J.C. Bose University of Science and Technology, Faridabad.
16:45-17:00	<i>Adsorption performance and possible mechanisms of modified rice husk biochar to reduce food chain contamination.</i> Dr. Anita Singh , Department of Botany, Institute of Science, Banaras Hindu University, Varanasi.
17:00-17:15	<i>Assessment of surface ozone-driven impact on mungbean cultivation in Ajmer district of Rajasthan.</i> Dr. Nivedita Chaudhary , Department of Environmental Science, School of Earth Sciences, Central University of Rajasthan, Ajmer.
17:15-17:30	<i>Trigonella foenum-graecum L. seed extract potentially ameliorates testicular dysfunction due to sodium fluoride in albino rats.</i> Dr. Rajkumar Maiti , Department of Physiology, Bankura Christian College, Dist- Bankura.
17:30-17:45	<i>Microalgae-based wastewater treatment, CO₂ sequestration, and biomass valorization: A circular bioeconomy approach.</i> Dr. SK Ratha , Plant Diversity, Systematics and Herbarium Division, CSIR-National Botanical Research Institute, Lucknow.
17:45-18:00	<i>Comparative Impact of Environmental Pollutants: Cadmium, Arsenic, and Their Mixture on Gut Microflora.</i> Dr. Ali Asghar , Department of Biochemistry, School of Chemical and Life Sciences, Jamia Hamdard, New Delhi.
18:00-18:15	<i>Removal of pesticides from water by biochar derived from co-pyrolysis of water lily and industrial wastewater sludge.</i> Mr. Saheem Rasool , Department of Chemical Engineering, National Institute of Technology, Srinagar.
18:15-18:30	<i>Effect of feedstock and Pyrolysis temperature on biochar characteristics and their potential to improve characteristics of metal-laden soil.</i> Ms. Hema V. , Bioremediation Lab, Department of Environmental Sciences, Bharathiar University, Coimbatore.
18:30-18:45	<i>Eco-Friendly Adsorbents: Transforming Plant Waste for Efficient Contaminant Removal for Sewage Wastewater.</i> Mr. Sampurna Nand , Environmental Technologies Division, CSIR-NBRI, Lucknow.
18:45-19:00	<i>Selection of suitable plant species for airborne particulate matter (PM) pollution management in the city of Bilaspur.</i> Mr. Ankesh Tiwari , Department of Botany, Guru Ghasidas Vishwavidyalaya, Bilaspur.
19:00-19:15	<i>Green Synthesis of Highly Efficient TiO₂-V₂O₅ Nanocomposite for Waste Water Treatment.</i> Mr. Aharas Siddiqui , Interdisciplinary Nanotechnology Centre, Zakir Husain College of Engineering and Technology, Aligarh Muslim University, Aligarh.
16:30-18:00	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Pollution and its Mitigation - 18)

DINNER [20:00-21:00]

Second Technical Session {Day 1 - 16:00 to 19:15}: Oral Presentations

Venue: Gladiolus Conference Room, CSIR-NBRI

Theme: Climate Change

Chairperson: Prof. Dinabandhu Sahoo, Department of Botany, University of Delhi, New Delhi

Co-Chairperson: Dr. Sanjukta Sahoo, Head, Dept of Civil Engineering, KIIT, Bhubaneswar

Rapporteur: Dr. Soumit Kumar Behera, Senior Principal Scientist, CSIR-NBRI, Lucknow

16:00-16:15	<i>Climate change, visual system and impacts of Pax6.</i> Prof. Rajnikant Mishra , Department of Zoology, Banaras Hindu University, Varanasi.
16:15-16:30	<i>Enhancing Healthcare Services through Remote Sensing (RS) and Geographic Information Systems (GIS): A Comprehensive Analysis of Tribal Districts in Andhra Pradesh.</i> Dr. M. Gangaraju , Department of Geography, Dr. Lankapalli Bullayya Degree College, Resapuvanipalem, Visakhapatnam.
16:30-16:45	<i>Potentiality of plant residues in mitigating Nitrous oxide (N₂O) emission from pre-monsoon tropical rice paddies.</i> Dr. Anushree Baruah , Department of Botany, School of Life Sciences, Assam Royal Global University, Guwahati.
16:45-17:00	<i>Impact of different irrigation systems on yield and global warming potential (GWP) of rabi crops in eastern Gangetic plains of India.</i> Dr. Rachana Dubey , Division of Crop Research, ICAR-Research Complex for Eastern Region, Patna.
17:00-17:15	<i>Investigation of ozone toxicity among fourteen wheat cultivars of India: An assessment of growth, physiology, defense mechanism and productivity.</i> Dr. Aditya Abha Singh , Department of Botany, University of Lucknow, Lucknow.
17:15-17:30	<i>Makhana (Euryale ferox Salisb.): A Climate Resilient Agricultural Crop of Northern Region of Bihar.</i> Dr. Sanjib Kumar , Dept. of Botany, TP College, Madhepura, Bihar.
17:30-17:45	<i>Impact of Climate Change on Plant Diseases- Rice Tungro Disease in Rice.</i> Dr. Valarmathi P. , ICAR-Central Institute for Cotton Research (CICR), Regional Station, Coimbatore.
17:45-18:00	<i>Seasonality of Nutrient Content in Epilimnion Zone of Keshopur Chhumb Wetland - A Ramsar Site Community Reserve.</i> Dr. Syed Shabih Hassan , Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana.
18:00-18:15	<i>Tropospheric Ozone and Global Food Security: Where Do We Stand?</i> Dr. Supriya Tiwari , Department of Botany, Institute of Science, Banaras Hindu University, Varanasi.
18:15-18:30	<i>Differential response of low-N sensitive and low-N tolerant rice varieties to elevated CO₂ under low nitrogen treatments.</i> Dr. Ritu Chaudhary , Department of Botany, Aligarh Muslim University, Aligarh.
18:30-18:45	<i>Urban Heat Island Dynamics in Response to Land Use Land Cover Change in Ernakulam District, Kerala, India.</i> Ms. Anitha V , Department of Environmental Sciences, Bharathiar University, Coimbatore.
18:45-19:00	<i>Variation in Forest Structure, Carbon Stock, and Regeneration Status Along an Altitudinal Gradient in Janupur Range, Mussoorie Forest Division.</i> Ms. Manisha Pandey , Eco-Taxonomy Research Laboratory, Department of Botany, D.A.V. (P.G) College, Dehradun.
19:00-19:15	<i>Forecasted Thermal Patterns and Their Potential Effects on the Phenological Cycles of Winter Crops in the New Alluvial Agricultural Climate Zone of West Bengal under Climate Change Predictions.</i> Mr. Soumik Banerjee , Department of Agricultural Meteorology and Physics, Faculty of Agriculture Bidhan Chandra Krishi Viswavidyalaya, Mohanpur.
16:30-18:00	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Climate Change - 10)

DINNER [20:00-21:00]

POSTER SESSION {Day 1 - 16:30 – 18:00}

Themes: Pollution and its Mitigation (1-18) & Climate Change (19-28)

Venue: CSIR-NBRI Exposition & Lobby

Sl. No.	Name of the participant	Title of the Poster
1.	Tamanna, GGS Indraprastha University, Dwarka, New Delhi	Assessment of groundwater quality for drinking purposes using Water quality index (WQI): A study of Bathinda district of Punjab.
2.	Sweta Yadav, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow	Site-specific foliar uptake and subcellular distribution of atmospheric Pb and Cd in <i>Andrographis paniculata</i> .
3.	Divya Dubey, Department of Environment Science, Babasaheb Bhimrao Ambedkar University	Monitoring the Factors and Consequences of the Floristic Invasion in the Freshwater Tropical Lakes of India.
4.	Priyanka Singh, Department of Botany, Institute of Science, BHU, Varanasi	Effect of rice mill waste incorporation in wastewater irrigated soil on heavy metal uptake and growth performance of rice plants.
5.	Parvati Madheshiya, Department of Botany, Institute of Science, BHU, Varanasi	Role of Elevated Ozone on Metabolite and Bioactive Contents of Lemongrass [<i>Cymbopogon flexuosus</i> (Steud.) (Wats.)].
6.	Paurabi Das, CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow	A comparative study of two <i>Andrographis paniculata</i> genotypes for Cr uptake kinetics and subcellular distribution.
7.	Mithilesh K. Bhardwaj, CSIR- National Botanical Research Institute, Lucknow	Identification of indoor plants for their air pollution tolerance.
8.	Md. Mumtaz Alam, Jamia Millia Islamia, New Delhi	Municipal Solid Waste used in the Manufacturing of Fly Ash Brick.
9.	Jyoti Verma, Dept. of Environmental Sciences, Dr RML Awadh University, Ayodhya	Maximizing the Potential of Wastewater Utilization: A Comprehensive Research Study.
10.	Nisha Rani, CSIR-National Physical Laboratory, New Delhi	Seasonal Variation, Source Apportionment and Human Inhalation Dose Estimation of Size-segregated Aerosols in Central Delhi.
11.	Namrata Pandey, Sri Ramswaroop Memorial University, Lucknow	Unravelling Arsenic Contamination in the Ganga-Ghaghara Basin, India: Reconnaissance using Geographical Information System (GIS) Technology.
12.	Archana Prajapati, CSIR- National Environmental Engineering Research Institute, Nagpur	Characterization of Microplastics and associated heavy metals in urban soils affected by anthropogenic littering: Distribution, spatial variation, and influence of soil properties.
13.	Diksha, GGS Indraprastha University, Dwarka, New Delhi	Assessment of Water Quality of Sultanpur National Park Using Water Quality Index (CCME WQI).
14.	Akanksha Gupta, Department of Botany, Institute of Science, BHU, Varanasi	Elevated ozone-induced response of tomato (<i>Solanum lycopersicum</i> L.) cultivars with special emphasis on visible injury, antioxidative defense system, and fruit yield.
15.	Aishwarya Yadav, Bundelkhand University, Jhansi	Sewage Water Quality Assessment and its effects on residents health in the smart city Jhansi, U. P.
16.	Abdul Hameed Siddiqui, Jamia Millia Islamia, New Delhi	Heavy Metals in Soil: Sources, Impacts on Human Health and Environmental Consequences – A Review.
17.	Mohineeta Pandey, Guru Ghasidas Vishwavidyalaya, Bilaspur	Effect of biochar amendment on availability and leaching of soil pollutant.
18.	Muneeb Farooq, National Institute of Technology, Srinagar	Assessing the feasibility of utilizing sludge-derived biochar in conjunction with waste plastic for the development of sustainable composite matrix.
19.	Pallavi Singh, Department of Botany, Institute of Science, BHU, Varanasi	Untangling the effect of chronic ozone exposure on growth and biomass allocation pattern of two Indian hybrid mango varieties.
20.	Ashish Kumar Mishra, Department of Botany, Institute of Science, BHU, Varanasi	Interactive Effects of Ozone and CO ₂ on Wheat Cultivars with Differing Ozone Sensitivity: Insights into Flux, Growth, and Yield.
21.	Juhi Aswani, Babasaheb Bhimrao Ambedkar University, Lucknow	Climate Smart Agriculture -Approach to Manage Food Security.
22.	Monika Kumari, Babasaheb Bhimrao Ambedkar University, Lucknow	Climate Smart Agriculture.
23.	Palak Kapoor, DRDO- Defence Institute of Physiology and Allied Sciences, New Delhi	Development of Heat-Stress (HS) Tolerant Variety of Agricultural Plants in Response to Global Climate Change.
24.	Jitendra Gurjar, Department of Horticulture, SKRAU, Bikaner	Climate Smart Agriculture.
25.	Rekha Kannaujia, CSIR- National Botanical Research Institute, Lucknow	Ozone-induced oxidative stress mitigation by <i>Phyllanthus emblica</i> stabilized biogenic silver nanoparticles in wheat (<i>Triticum aestivum</i> L.)
26.	Vikash Kumar Sonkar, Department of Horticulture, School of Agricultural Sciences and Technology, Babasaheb Bhimrao Ambedkar University, Lucknow	Effect of post-harvest treatments on physico-chemical properties and quality of guava (<i>Psidium guajava</i> L.) under changing climatic conditions.
27.	Nisha Kharka, CSIR- National Botanical Research Institute, Lucknow	Microalgal CO ₂ Sequestration: Unravelling Mechanisms for Climate Resilience and Net Zero Emission.
28.	Shashank CG, ICAR-National Institute of Animal Nutrition and Physiology, Adugodi, Bangalore.	Impact of Climate change on Behavioral Flexibility of Animals.

DINNER [20:00-21:00]

DAY – 2

15th December, 2023 (Friday)

Third Technical Session {Day 2 - 10:00 to 11.45}: Oral Presentations

Venue: Lotus Auditorium, CSIR-NBRI

Theme: Green Chemistry

Chairperson: Dr. Neelu Singh, ICFRE-Tropical Forest Research Institute, Jabalpur. Co-Chairperson: Dr. S. Kannan, Tamil Nadu Agricultural University, Cuddalore. Rapporteur: Dr. Suchi Srivastava, Principal Scientist, CSIR-NBRI, Lucknow	
10:00-10:15	<i>The Tiny Green Golds Potential Source for Hydrogen Generation and Their Contributing Elements.</i> Dr. Nivedita Sahu , CSIR – Indian Institute of Chemical Technology, Hyderabad.
10:15-10:30	<i>An eco-friendly approach to decontaminate nickel oxide nanoparticles using a macrofungus, Pleurotus fossulatus.</i> Dr. Huma Vaseem , Department of Zoology, Faculty of Life Sciences, Aligarh Muslim University, Aligarh.
10:30-10:45	<i>Green Chemistry Practices for Sustainable Aquaculture.</i> Dr. Sri Ranjani Tallam , Department of Zoology, DK Govt Degree College for Women (Autonomous), Nellore.
10:45-11:00	<i>Fabrication of Nanoparticle Infused Bio-Based Film using Aloe vera Mucilage for Packaging Applications.</i> Dr. P. Karthik , Department of Food Technology, Karpagam Academy of Higher Education (Deemed to be University), Coimbatore.
11:00-11:15	<i>Development of Amine-functionalized Fluorescent Silica Nanoparticles from Coal Fly Ash for Enhancing the Plant Growth.</i> Dr. Vikram Singh , Environment Emission and CRM Section, CSIR-Central Institute of Mining and Fuel Research Dhanbad, Jharkhand.
11:15-11:30	<i>Iron-encapsulated mesoporous silica nanoparticles effectively alleviate salinity stress in wheat seedlings.</i> Mr. Dibakar Ghosh , Department of Botany, University of North Bengal, Siliguri, West Bengal.
11:30-11:45	<i>Potentiality of Nitrification Inhibition by blending Urea with Botanicals in Tropical Rice Paddies.</i> Ms. Jasmin Sultana , Department of Botany, The Assam Royal Global University, Guwahati.
10:00-11:30	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Green Chemistry - 26)

TEA BREAK [11:45-12:00]

POSTER SESSION {Day 2 - 10:00 – 11:30}

Theme: Green Chemistry (1-26)

Venue: CSIR-NBRI Exposition & Lobby

Sl. No.	Name of the participant	Title of the Poster
1.	D. Narendrakumar, <i>National Institute of Ocean Technology, Chennai</i>	An analysis of unlocking the potential of Green Nanotechnology for a Sustainable Marine Industry.
2.	Banita Kumari Paswan, <i>Department of Botany University of Lucknow, Lucknow.</i>	Copper nanoparticles altered leaf ultrastructure and nutrient accumulation in rice seedlings.
3.	Afrida Hussain, <i>Department of Botany, Cotton University, Guwahati</i>	<i>Hibiscus rosa-sinensis</i> Linn mucilage as a sorbent material for oil spill remedies.
4.	Akshay Chauhan, <i>Department of Botany, Aligarh Muslim University, Aligarh</i>	Radiation-processed chitosan is a potent elicitor and reliever of growth and physiological performance, production of essential oil, and active constituents of <i>Cymbopogon flexuosus</i> (Steud.), under high temperature-induced stress.
5.	Anam Taufeeq, <i>Department of Biotechnology, Faculty of Engineering and Technology, Rama University, Kanpur</i>	Recent insights on polylactic acid (PLA) for the development of biodegradable nanomaterials with applications in agriculture and environmental conservation.
6.	Namini Joshi, <i>Department of Biotechnology, Graphic Era Deemed to be University, Dehradun</i>	Enhanced shikonin production from callus suspension culture of <i>Arnebia benthamii</i> using silver nanoparticles.
7.	Vebhav Singh, <i>Department of Biochemistry, Dr. Rammanohar Lohia Avadh University, Ayodhya</i>	Extraction and Purification of phytocystatin from peels of Pomegranate: A remedy to minimizing food waste.
8.	Ipsita Priyadarsini Samal, <i>Department of Botany, School of Applied Sciences, Centurion University of Technology and Management, Odisha</i>	Role of Allelopathy for sustainable weed management in agriculture.
9.	Vaibhav Bharat Rokade, <i>ICAR-National Dairy Research Institute, Karnal</i>	Biosynthesis and Characterization of Magnesium Oxide Nanoparticles and Its Antimicrobial Activity against <i>Listeria monocytogenes</i> .
10.	V Ramadevi Pabbineedi, <i>CSIR-Central Leather Research Institute, Chennai</i>	Green Chemistry for Leather Waste Reduction.
11.	Saher Fatima, <i>Department of Bioengineering and Biosciences, Integral University, Lucknow</i>	Effect of metallic nanoparticles on the nutrient profile of <i>Nigella sativa</i> L. seed during germination.
12.	Taanisha Mukhopadhyay, <i>Department of Chemical Engineering, Haldia Institute of Technology (Autonomy), Haldia</i>	Production of Biofuel from Algal Biomass by Aqueous Phase Reforming.
13.	Sudarshan P., <i>Department of PG Studies and Research in Biotechnology SDM College (Autonomous), Ujire, D.K. Karnataka</i>	Assessment of Antibacterial Activity of Acetone Extracts of Seaweeds from Surathkal Coast, Karnataka.
14.	Shishir Bobate, <i>CSIR-Indian Institute of Toxicology Research, Lucknow</i>	Optimization of bioprocess parameters for enhanced bacterial synthesis of surface-active compound.
15.	Shanya Malviya, <i>School of Life Sciences and Biotechnology, CSJM University, Kanpur</i>	Synthesis of Nanocellulose for Valorization of Waste Mango Wood Biomass.
16.	Rajalakshmi Ramarajan, <i>Annamalai University, Chennai</i>	Insilico screening and Invitro validation of Oxazinyll -Thiazolidinone hybrid as potential drug targets in breast cancer.
17.	Pragati Gupta, <i>Institute of Environment and Sustainable Development, BHU, Varanasi</i>	Examining the effect of Molybdenum Nanoparticles on growing rice seedlings.
18.	Kundan Kumar, <i>Amity Institute of Biotechnology, Amity University Chhattisgarh, Raipur</i>	<i>Tinospora cordifolia</i> reduced copper oxide nanoparticles synthesis, characterization, and its antibacterial investigation.
19.	Mo Shadab, <i>Department of Botany, Aligarh Muslim University, Aligarh</i>	Allelopathic effect of Root Aqueous Extracts of <i>Lepidium didymum</i> L. on Germination, Growth and Biochemical Activities of <i>Vicia sativa</i> L.
20.	Kaushik Gautam, <i>Department of Botany, Institute of Science, BHU, Varanasi</i>	Effect of KMnO ₄ -modified rice-husk biochar on soil physicochemical properties and yield attributes of beetroot plants.
21.	Nida Sultan, <i>Department of Biosciences, Integral University, Lucknow</i>	Enhancement of mancozeb induced toxicity in <i>Vigna radiata</i> by the application of jasmonic acid.
22.	Harshita Singh, <i>Department of Botany, Institute of Science, BHU, Varanasi</i>	Illustrating the alterations in the metabolome of tree species under simulated particulate matter stress through high-resolution NMR spectroscopy.
23.	Praphool Kumar, <i>CSIR – National Botanical Research Institute, Lucknow.</i>	Metal chelation by lichens and their secondary metabolites as pioneers of Pedogenesis.
24.	Saurabh Kumar, <i>CSIR – National Botanical Research Institute, Lucknow.</i>	Edible Oil Production from Microalgae as an Alternative of Vegetable Oil: A Present Status and Future Perspective.
25.	Arpit Acharya, <i>CSIR – National Botanical Research Institute, Lucknow.</i>	Microbial reclamation of agri-waste for the production of chitinase enzyme using solid state fermentation.
26.	Varsha Dharmesh, <i>CSIR – National Botanical Research Institute, Lucknow.</i>	Role of P and Si Solubilizers for reduced arsenic transportation in Rice.

TEA BREAK [11:45-12:00]

Fourth Technical Session {Day 2 – 10:00 to 11.50}: Oral Presentations
Venue: Gladiolus Conference Room, CSIR-NBRI
Theme: Environment and Biotechnology

Chairperson: Dr. S. Patnaik, School of Biotechnology, KIIT Deemed to be University, Bhubaneswar
Co-Chairperson: Dr. Samir V. Sawant, Chief Scientist, CSIR-NBRI, Lucknow
Rapporteur: Dr. Sribash Roy, Senior Principal Scientist, CSIR-NBRI, Lucknow

10:00-10:20 Keynote Talk	<i>Integrated application of granular formulations of <i>Kinneretia asachharophila</i> and biostimulants in bioremediation of RDX contaminated soils.</i> Dr. Abhishek Sharma , Amity Food and Agriculture Foundation, Amity University Noida.
10:20-10:35	<i>Characterisation of Recombinant Laccase Enzyme with Co-solutes to Enhance Bioremediation in Waterbodies.</i> Prof. Asimul Islam , Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi.
10:35-10:50	<i>Analysis of genome and transcriptome of an imminent biofuel leguminous tree, <i>Pongamia pinnata</i> (L.), reveals structural information of crucial genes involved in oil biosynthesis.</i> Dr. Shalini Mudalkar , Department of Tree breeding and improvement, Forest College and Research Institute, Mulugu, Hyderabad.
10:50-11:05	<i>Identification and characterization of microorganisms isolated from deep seawater of Southern Ocean and lake water of Antarctica.</i> Dr. Abhishek Chauhan , Amity Institute of Environmental Toxicology, Safety and Management, Amity University, Noida.
11:05-11:20	<i>Marker-assisted pyramiding of APR genes for durable rust resistance in wheat (<i>Triticum aestivum</i> L.).</i> Dr. Niharika Mallick , Division of Genetics, ICAR-Indian Agricultural Research Institute, New Delhi.
11:20-11:35	<i>Computational Insights into Salinity-Induced Adaptations: Glyoxalase Gene Expression Dynamics in <i>Artemisia annua</i>.</i> Ms. Pajeb Saha , Department of Botany, Institute of Science, Banaras Hindu University, Varanasi.
11:35-11:50	<i>Exploration of bacterial diversity and functions associated with chromium-contaminated tannery sludge disposal site.</i> Dr. Sandhya Mishra , Environmental Technologies Division, CSIR-NBRI Lucknow.

TEA BREAK [11:50-12:00]

Third Technical Session {Day 2 - 12:00 to 13.45}: Oral Presentations
Venue: Lotus Auditorium, CSIR-NBRI
Theme: Green Chemistry

Chairperson: Dr. D. Rajasekhar, Scientist-G, National Institute of Ocean Technology, Chennai
Co-Chairperson: Dr. PA Shirke, Chief Scientist, CSIR-NBRI
Rapporteur: Dr. Suchi Srivastava, Principal Scientist, CSIR-NBRI, Lucknow

12:00-12:15	<i>Proposal of Nanomicellar Water as a Novel Skincare Formulation from Natural Plant Extracts.</i> Prof. Shamama Javed , Department of Pharmaceutics, College of Pharmacy KSA.
12:15-12:30	<i>Potential utilization of polysaccharide, mucilage from <i>Hyptis suaveolens</i> (L.) Poit. for the development of bioproducts.</i> Dr. Neelu Singh , ICFRE-Tropical Forest Research Institute, Jabalpur.
12:30-12:45	<i>Soil Quality Augmentation using Industrial Wastes as Amendments in Degraded Acid Soils of North Western Himalayas.</i> Dr. Trisha Roy , ICAR-Indian Institute of Soil and Water Conservation, Dehradun.
12:45-13:00	<i>Developments in nanomaterial-based sensors for rapid detection of heavy metal ions.</i> Dr. Sandip Kumar Chandraker , Model Rural Health Research Unit (MRHRU), Jheet, Durg, Chhattisgarh.
13:00-13:15	<i>Essential oil nanoformulations for sustainable protection of stored foods.</i> Dr. Somenath Das , Department of Botany, Burdwan Raj College, Purba Bardhaman, West Bengal.
13:15-13:30	<i>Evaluation of cashew apple juice blended with mango and papaya for improving quality of RTS beverages.</i> Dr. S. Kannan , Krishi Vigyan Kendra, Tamil Nadu Agricultural University, Vridhachalam, Cuddalore.
13:30-13:45	<i>Preparation and Fabrication of Antibacterial Wound Dressing Material using Epigallocatechin gallate: A treatment strategy against <i>Pseudomonas aeruginosa</i>.</i> Ms. Somya Sinha , Department of Biotechnology, Graphic Era deemed to be University, Dehradun.

LUNCH BREAK [13:45-14:45]

Fourth Technical Session {Day 2 – 12:00 to 14.05}: Oral Presentations
Venue: Gladiolus Conference Room, CSIR-NBRI
Theme: Environment and Biotechnology

Chairperson: Dr. Samir V. Sawant, Chief Scientist, CSIR-NBRI, Lucknow
Co-Chairperson: Dr. A. Sharma, Amity Food and Agriculture Foundation, Amity University, Noida
Rapporteur: Dr. Sribash Roy, Senior Principal Scientist, CSIR-NBRI, Lucknow

12:00-12:20 Keynote Talk	<i>Molecular toxicity of Benzo(a)pyrene initiates oxidative stress resulting in skeletal deformities and cell death in embryonic zebrafish.</i> Dr. Srinivas Patnaik , School of Biotechnology, KIIT Deemed to be University, Bhubaneswar, Odisha.
12:20-12:35	<i>The Influence of Host Plant Species and Valeriana wallichii Residue as Substrate for Inoculum Production of Arbuscular Mycorrhizal Fungi for Sustainable Agriculture.</i> Dr. Aditya Kumar , Department of Botany, Dayanand College, Hisar, Haryana.
12:35-12:50	<i>Evaluating the possible health dangers of heavy metal pollution in vegetables from selected locations in Delhi NCR.</i> Dr. Sandeep Kumar , Division of Environment Science, ICAR-Indian Agricultural Research institute, New Delhi.
12:50-13:05	<i>Phytoremediation: Sustainable approach for reclamation of heavy metals contamination.</i> Dr. Pawan Kumar Verma , Faculty of Veterinary Science and Animal Husbandry, SKUAST, Jammu.
13:05-13:20	<i>Integrated granular reactor for simultaneous C & N removal, unifying methanogens, anammox and nitrifiers spatially.</i> Ms. Shradhanjali Sethi , CSIR- National Environmental Engineering Research Institute, Nagpur.
13:20-13:35	<i>Isolation of lindane degrading novel Ascomycetes fungus for elucidating lindane degradation pathway.</i> Ms. Ispreet Kaur , CSIR- National Botanical Research Institute, Lucknow.
13:35-13:50	<i>Bioremediation of Soil Arsenic: Genetic interventions to improve the success.</i> Ms. Mariya Naseem , CSIR- National Botanical Research Institute, Lucknow.
13:50-14:05	<i>Transcriptome analysis of Oryza sativa (L.) (rice) varieties under low nitrogen levels.</i> Mohd Sohail Ashraf , Department of Botany, Aligarh Muslim University, Aligarh.
12:15-13:45	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Environment and Biotechnology - 28)

LUNCH BREAK [14:05-14:45]

POSTER SESSION {Day 2 - 12:15 – 13:45}

Themes: Environment and Biotechnology (1-28)

Venue: CSIR-NBRI Exposition & Lobby

Sl. No.	Name of the participant	Title of the Poster
1.	Abdur Rahman, <i>Jawaharlal Nehru University, New Delhi</i>	Elucidating the metal iron affinity with Plasmodial Kelch13 protein in the development of artemisinin resistance.
2.	Akshita Raj, <i>Graphic Era Deemed to be University, Dehradun</i>	Enhanced secondary metabolite production through callus culture of <i>Jurinea macrocephala</i> (Asteraceae), an endangered medicinal plant of Indian Himalayan Region.
3.	Ankita Bharshankh, <i>CSIR-National Environmental Engineering Research Institute, Nagpur</i>	Prevalence of selected antibiotic resistance genes in diverse biological wastewater treatment systems.
4.	Nancy Sharma, <i>CSIR-Indian Institute of Integrative Medicine, Jammu</i>	Diversity and bioactivities of Endophytic fungi isolated from <i>Coleus</i> species.
5.	Sonam Dwivedi, <i>Department of Bioengineering, Integral University, Lucknow</i>	Modulation of UV-B radiation through cyanobacterial cells by impacting their physiological processes.
6.	Noorani MS, <i>Department of Botany, School of Chemical and Life Sciences, Jamia Hamdard (A Deemed-to-be University), New Delhi</i>	Whole Genome Sequencing and Characterization of Prunus Necrotic Ringspot Virus (PNRSV) Isolated from Apricot.
7.	Kirti Pandey, <i>CSIR- National Botanical Research Institute, Lucknow</i>	Effect of elevated CO ₂ on small RNA regulated gene expression in <i>Arabidopsis thaliana</i> populations from high and low elevations in the western Himalayas.
8.	Krishnendu Adhikary, <i>Department of Interdisciplinary Sciences, Centurion University of Technology and Management, Odisha</i>	Extraction, purification and characterization of lemongrass essential oil (LGEO) components and their effects against clinically important bacteria and fungus.
9.	Mrinalini Agarwal, <i>Department of Biotechnology, Graphic Era Deemed to be University, Dehradun</i>	<i>In vitro</i> Callus culture and secondary metabolite production in <i>Hedychium spicatum</i> .
10.	Aditi Roy, <i>CSIR – National Botanical Research Institute, Lucknow</i>	Exploring the potential of yeast strain <i>Meyerozyma caribbica</i> and its consortia with bacteria for lindane bioremediation.
11.	Pradeep Kumar, <i>Department of Botany, MMV, Banaras Hindu University, Varanasi</i>	Identification of Core Gene of Lihc and its Prevention through Apigenin via Network Pharmacology.
12.	Sazia Siddiqui, <i>Department of Biosciences, Integral University, Lucknow</i>	Isolation and characterization of pesticides (chloropyrifos, cypermethrin) degrading bacteria and their growth response.
13.	Shivani Negi, <i>Department of Biotechnology, Graphic Era Deemed to be University, Dehradun</i>	Enhance secondary metabolites production in callus suspension culture of <i>Roscoea purpurea</i> Smith: an important Himalayan medicinal plant.
14.	Richa Yadav, <i>Wisdom College of Pharmacy, Lucknow</i>	Role of Epigenetics for Abiotic Stress Tolerance in Plants.
15.	Sneha Singh, <i>Department of Botany, Institute of Science, Banaras Hindu University, Varanasi</i>	Exploring the Role of bHLH Transcription Factors in <i>Withania somnifera</i> under UV-B Stress.
16.	Sabitri Kumari, <i>Department of Botany, Institute of Science, Banaras Hindu University, Varanasi</i>	Role of <i>AaLacI</i> gene in mitigation of PEG induced water deficit condition by modulation in secondary metabolites in <i>Artemisia annua</i> seedlings.
17.	Sahrish Aftab, <i>Aligarh Muslim University, Aligarh</i>	Decoding Nitrogen-Use-Efficiency in Rice: A Metabolomics Study.
18.	Nidhi Rai, <i>Department of Botany, Institute of Science, BHU, Varanasi</i>	Genome-wide identification of bZIP transcription factor family in <i>Artemisia annua</i> , its transcriptional profiling, and regulatory role in phenylpropanoid metabolism under different light conditions.
19.	Parmeshwar Singh, <i>Amity Institute of Biotechnology, Amity University Chhattisgarh, Raipur</i>	Bioaugmentation of Rhizospheric Phosphate Solubilizing Bacteria (PSB) to improve the productivity of odd-seasoned Cauliflower farming.
20.	Priyanka, <i>Department of Botany, University of Allahabad, Prayagraj</i>	Molecular Phylogenetic Analysis of Micro-Eukaryotic Heavy Metal Tolerant Protein Sequences Using a Computational Approach.
21.	Lukeshwari Shyam, <i>Division of Environment Science, IARI, New Delhi</i>	Wastewater Treatment: Harnessing Microalgae <i>Coelastrella</i> for Bioremediation.
22.	Imra Mumtaz, <i>Department of Botany, Aligarh Muslim University, Aligarh.</i>	Designing of genetically encoded FRET-based nanosensor for monitoring of metals.
23.	Neha Agrawal, <i>Department of Biosciences, Jamia Millia Islamia, New Delhi.</i>	Detection and quantification of manganese ions with FRET-based genetically encoded nanosensor.
24.	Neha Chaurasia, <i>Department of Botany, Aligarh Muslim University, Aligarh.</i>	Construction of FRET-based nanosensor for real-time monitoring of putrescine.
25.	Sana Basri, <i>Department of Botany, Aligarh Muslim University, Aligarh.</i>	Gel-free proteome profiling of rice leaves of varieties Aditya and Vikramarya under low nitrogen treatment.
26.	Abhinav Sharma, <i>CSIR- National Botanical Research Institute, Lucknow.</i>	Ecological Assessment, Biomonitoring and Identification of Green Algal Indicator Species from Buffer and Core Zones of Corbett Tiger Reserve (CTR), Uttarakhand, India.
27.	Monika Kumari, <i>Babasaheb Bhimrao Ambedkar University, Lucknow.</i>	Effect of different bio-fertilizers on yield and quality of broccoli.
28.	Pallavi Singh, <i>CSIR- National Botanical Research Institute, Lucknow.</i>	Role of <i>P. putida</i> exopolyphosphatase gene (ppx) for abiotic stress tolerance in plants.

LUNCH BREAK [13:45-14:45]

Fifth Technical Session {Day 2 – 15:00 to 17.15}: Oral Presentations
Venue: Lotus Auditorium, CSIR-NBRI
Theme: Natural Resource Management

Chairperson: Dr. DK Upreti, Emeritus Scientist, CSIR, Lucknow.

Co-Chairperson: Dr. Gara Raja Rao, Department of Geology, Andhra University, Visakhapatnam

Rapporteur: Dr. Vijay Vishnu Wagh, Principal Scientist, CSIR-NBRI, Lucknow

15:00-15:20 Keynote Talk	<i>Digital Soil Mapping Using Remote Sensing and Machine Learning Technique – A Case Study from Himalayan Region.</i> Mr. Justin George K , Scientist/Engineer – SE, Agriculture and Soils Department, Indian Institute of Remote Sensing (IIRS), Dehradun.
15:20-15:40 Keynote Talk	<i>Cruising through Challenges for Biodiversity Conservation in Nallamalais, Eastern Ghats.</i> Dr. K. Thulsi Rao , Director, Kundhi Global Biodiversity Solutions Pvt Ltd., Visakhapatnam.
15:40-16:00 Keynote Talk	<i>A case study of Ecological Restoration in Godavari Delta and mainstreaming the biodiversity conservation into production sectors.</i> Dr. Kalyani Bai Kunte , A.P. State Biodiversity Board, EFS&T Dept., GoAP.
16:00-16:15	<i>Investigation of the Presence of microplastics in commercially edible fishes and different drinking water sources.</i> Dr. Shashikanth Majagi , Vijaynagara Sri Krishnadevaraya University, Ballari.
16:15-16:30	<i>Distribution and diversity of lichen genus Cladonia P. Brown (Cladoniaceae) in Uttarakhand.</i> Dr. Gaurav K. Mishra , Plant Diversity, Systematics & Herbarium Division, CSIR-National Botanical Research Institute, Lucknow.
16:30-16:45	<i>Unveiling the impact of soil enzyme kinetics and microbial community on the dissipation of CP and TCP (3,5,6 trichloro-2-pyridinol) under vegetation of different aromatic grasses.</i> Dr. Puja Khare , CSIR-Central Institute of Medicinal and Aromatic Plants, Lucknow.
16:45-17:00	<i>The Science of Critical Zone.</i> Dr. Tanvi Arora , CSIR-National Geophysical Research Institute, Hyderabad.
17:00-17:15	<i>Impact of Climate Change on Rice Production in Middle-Gangetic Plain using CERES Model.</i> Ms. Mrinalini Srivastava , Centre of Excellence in Climate Change Research, Institute of Environment & Sustainable Development, Banaras Hindu University, Varanasi.
15:15-16:45	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Natural Resource Management - 17)

TEA BREAK [17:15-17:30]

Sixth Technical Session {Day 2 – 15:00 to 17.15}: Oral Presentations
Venue: Gladiolus Conference Room, CSIR-NBRI
Theme: Contemporary Issues

Chairperson: Dr. KN Nair, Former Chief Scientist, CSIR, Lucknow

Co-Chairperson: Dr. Rajesh Kumar Sharma, Department of Botany, BHU, Varanasi

Rapporteur: Dr. Poonam C. Singh, Principal Scientist, CSIR-NBRI, Lucknow

15:00-15:20 Keynote Talk	<i>Green Chemistry, Ayurveda, and Medicinal Plants: A Synergistic Approach for Sustainable Healthcare.</i> Prof. Anil Kumar Singh , Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi.
15:20-15:40 Keynote Talk	<i>Algae-based waste biorefinery – experimental investigation– our research in last 10 years.</i> Dr. Raja Chowdhury , Dept. of Civil Engineering, Indian Institute of Technology, Roorkee.
15:40-16:00 Keynote Talk	<i>Enhancing Productivity, Profitability, and Environmental Sustainability in Rice Residue Management within a Rice-Rice Cropping System.</i> Dr. Sanat Kumar Dwibedi , Odisha University of Agriculture and Technology, Bhubaneswar.
16:00-16:15	<i>Heavy metal contamination of soil: A study in gold tailings area of Kolar Gold Fields, Karnataka, India.</i> Prof. B. P. Harini , Department of Zoology, Bangalore University, Bengaluru.
16:15-16:30	<i>Fabrication of Bio-Based Film using Banana Peel and Egg Shell for Packaging Applications.</i> Dr. Bhaskar Jyoti , Department of Food Science and Technology, School of Agriculture, Mahakaushal University, Jabalpur.
16:30-16:45	<i>Risk Assessment of Bt and Non Bt Cotton on Non-target Arthropods in Farmers Fields of Warangal, Telangana, India.</i> Prof. (Retd.) Chintha Sammaiah , Department of Zoology, Environmental Entomology, Kakatiya University, Warangal.
16:45-17:00	<i>Discovery of biofumigant molecule from Indian traditional medicinal plant but safe in mammals.</i> Dr. Rajashekar Y. , Insect Resources Laboratory, Animal Bioresources Programme, Institute of Bioresources and Sustainable Development, DBT, Takyelpat, Imphal.
17:00-17:15	<i>The Role of Renewable Energy in Mitigating Climate Change.</i> Dr. Y. Savithri , Government College for Men(A), Kadapa, Andhra Pradesh.
15:15-16:45	Poster Session: Venue – CSIR-NBRI Exposition & Lobby (Theme – Contemporary Issues - 12)

TEA BREAK [17:15-17:30]

POSTER SESSION {Day 2 - 15:15 – 16:45}

Themes: Natural Resource Management (1-17) & Contemporary Issues (18-29)

Venue: CSIR-NBRI Exposition & Lobby

Sl. No.	Name of the participant	Title of the Poster
1.	Pooja Nitin Saraf, <i>Birbal Sahni Institute of Palaeosciences, Lucknow</i>	Ecological niche modelling to project past, current and future distributional shift of <i>Aegle marmelos</i> (L.) Correa (Bael) in India.
2.	Progya Mukherjee, <i>Institute of Environment & Sustainable Development, BHU, Varanasi</i>	Assessment of the Impact of Climate Change on Potato Production using the SUBSTOR-POTATO model in North Bengal.
3.	Sabnam Sultana, <i>Department of Botany, School of Life Sciences, The Assam Royal Global University, Guwahati</i>	Lichen Biodiversity and Conservation in Nambor-Doigrung and Garampani Wildlife Sanctuary, Golaghat District, Assam.
4.	Preeti Yadav, <i>Institute of Medical Science, Banaras Hindu University, Varanasi</i>	In-Silico pharmaco-kinetics study of 'Trayushnadi-Vati' for screening of potential inhibitors of Aldo-Keto Reductase and Aldose Reductase.
5.	Akanksha, <i>ICAR- Indian Institute of Vegetable Research, Varanasi</i>	Screening of germplasm/advanced lines for wilt diseases (<i>Ralstonia solanacearum</i> , <i>Fusarium oxysporum</i> f. sp. <i>melongenae</i> and <i>Sclerotium rolfsii</i>) in Brinjal (<i>Solanum melongena</i> L.).
6.	Ambikesh Debnath, <i>CSIR- National Botanical Research Institute, Lucknow</i>	Preliminary studies on some lichenicolous fungi from Arunachal Pradesh, India.
7.	Nagendra Prasad, <i>Birbal Sahni Institute of Palaeosciences, Lucknow</i>	Implications of modern soil samples for palaeoclimatic reconstruction: a case study from the Mahasamund District of Chhattisgarh state, central India.
8.	P. K. Gautam, <i>Institute of Environment and Sustainable Development, BHU, Varanasi</i>	Changing Spatio-Temporal trends of Cold Wave over India.
9.	Pankaj Maurya, <i>CSIR-Central Institute of Mining and Fuel Research, Dhanbad</i>	A comparative evaluation of the effect of plant species and dump topography on soil development in post mining land.
10.	Priyanka Singh, <i>Institute of Environment and Sustainable Development, BHU, Varanasi</i>	Temporal rainfall variability over Uttar Pradesh during the period 1901-2015 and Impact on Agriculture.
11.	Sachin Sharma, <i>Botany Department, D.A.V. (P.G.) College, Dehradun</i>	Assessing the Invasion Risk of Weeds from the APG-IV Grade-Superasterids in Moradabad District, Uttar Pradesh, India.
12.	Sakshi Kanotra, <i>CSIR-National Institute of Oceanography, Dona Paula, Goa</i>	Plankton diversity and ecology of rock pools of Goa, central West Coast of India.
13.	Sameer Jena, <i>Department of Botany, School of Applied Sciences, Centurion University of Technology and Management, Odisha</i>	A Review on the nutritional value of some wild edible plants used by tribals of Koraput District of Odisha, India.
14.	Pradip Sarkar, <i>Institute of Environment and Sustainable Development, BHU, Varanasi</i>	Satellite based Deforestation monitoring in southern Odisha using Google Earth Engine from 2000-2022.
15.	Priya Verma, <i>CSIR- National Botanical Research Institute, Lucknow</i>	Effect of Anthropogenic Disturbance on Plant Diversity in the Riparian Zones of Gomati River Basin in Lucknow, India
16.	Swati Verma, <i>CSIR-National Botanical Research Institute, Lucknow</i>	Soil Microplastics and Co-Contaminants: Threatening Soil Health.
17.	Pooja Maurya, <i>CSIR-National Botanical Research Institute, Lucknow</i>	Distribution and ecology of lichen genus <i>Phaeophyscia</i> in Western Himalaya, India.
18.	Shanta Kumari, <i>Eternal University, Baru Sahib, District Sirmour, H.P.</i>	Farmers' Perceptions of Pesticide Use, Productivity and Climate Change.
19.	Rajesh Kumar Singh, <i>Department of Dravyaguna, Institute of Medical Sciences, Banaras Hindu University, Varanasi</i>	A phytosterol derived from <i>Semecarpus anacardium</i> Linn. leaves demonstrates anti-tumor effects and improves the survival of mice with tumors.
20.	Jyotish Kumar Singh, <i>J. P. University, Chapra, Bihar</i>	A Study of Honey Bees and Nutritional Value of Honey for Food Security in Vaishali District of North Bihar, India.
21.	Manjeet, <i>School of Earth Sciences, Banasthali Vidyapith, Newai, Rajasthan</i>	Suitability for Agriculture: A Case Study of Safidon Tehsil in Jind District, Haryana.
22.	Touseef Fatima, <i>Microbial Technology, CSIR- National Botanical Research Institute, Lucknow</i>	Endophytes isolated from drought-resistant and sensitive rice varieties show cross-infectivity and vertical transmission.
23.	Madhav Raj Jayswal, <i>Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow</i>	Two new Ni(II) and Co(II)-based coordination polymers based on mixed linkers as photocatalysts for antibiotics decomposition.
24.	Omoding Daniel, <i>Department of Chemistry, Faculty of Science, University of Lucknow, Lucknow</i>	New Transition Metal Coordination Polymers derived from 2-(3,5-dicarboxyphenyl)-6-carboxybenzimidazole as photocatalysts for dye and antibiotic decomposition.
25.	Subhasmita Panda, <i>Maharaja Sriram Chandra Bhanja Deo University, Baripada</i>	Effect of additive-based vermicompost application on leaf miner <i>Liriomyza trifoli</i> (Burgess) and yield of Chilli.
26.	Sanchita Singh, <i>Department of Botany, University of Lucknow</i>	Tissue culture: a panacea for conservation of <i>Selinum</i> species.
27.	Nishtha, <i>Forest Research Institute, Dehradun, Uttarakhand</i>	<i>Bambusa polymorpha</i> : Brief Account of Herbarium Preparation of An Important Bamboo.
28.	Rajan Kumar, <i>P.G. Department of Zoology, J.P. University, Chapra</i>	Impact of Climate Change on Aquaculture.
29.	Sachin Singh and Mamta Arya, <i>H.N.B. Garhwal University, Srinagar, Uttarakhand</i>	Cultivation, Phytochemical Analysis and Bioprospecting of Lichenicolous Fungi from <i>Heterodermia diademata</i> : Unveiling Potential Natural Dyes.

TEA BREAK [17:15-17:30]

Fifth Technical Session {Day 2 – 17:30 to 19.15}: Oral Presentations

Venue: Lotus Auditorium, CSIR-NBRI

Theme: Natural Resource Management

Chairperson: Dr. K. T. Rao, Director, Kundhi Global Biodiversity Solutions, Visakhapatnam Co-Chairperson: Dr. Puja Khare, Principal Scientist, CSIR-CIMAP, Lucknow Rapporteur: Dr. Vijay Vishnu Wagh, Principal Scientist, CSIR-NBRI, Lucknow	
17:30-17:45	<i>Growth Response of Significant Bioinoculants including AM Fungi on Eclipta Alba Plants in Polyhouse Condition.</i> Dr. Chhavi Mangla , Department of Botany, Dayanand College, Hisar, Haryana.
17:45-18:00	<i>Nutrient Reduction in soil and water in residential–cropland areas-Eco-restoration system with study in coastal Andhra Pradesh.</i> Dr. Gara Raja Rao , Department of Geology, Andhra University, Visakhapatnam.
18:00-18:15	<i>Three decades of forest vegetation dynamics in Nanda Devi Biosphere Reserve, Indian west Himalaya.</i> Dr. Balwant Singh Rawat , School of Agriculture, Graphic Era Hill University, Dehradun.
18:15-18:30	<i>Identification of Source of Resistance in Wild Species of Solanum against Red Spider Mite, Tetranychus urticae.</i> Dr. Mutthuraju, G.P. , University of Horticultural Sciences, Bagalkot, Karnataka.
18:30-18:45	<i>Assessment of Carbon Sequestration Potential of Mangrove Plants in Machilipatnam.</i> Dr. J. Naveena Lavanya Latha , Department of Biosciences and Biotechnology, Krishna University, Machilipatnam, A. P.
18:45-19:00	<i>Modelling the Potential Response of an Endangered Arid Land Tree Tecomella undulata to Past and Future Climate Change Scenarios in the Indian Subcontinent.</i> Mr. Jereem Thampan , Birbal Sahni Institute of Palaeosciences, Lucknow.
19:00-19:15	<i>A modified method of microplastics quantification in soil ecosystem.</i> Ms. Ekta Gupta , CSIR-National Botanical Research Institute, Lucknow.

DAY – 2

15th December, 2023 (Friday)

Venue: Lotus Auditorium, CSIR-NBRI

Cultural Programme

Time: 19:45-20:45

DINNER [21:00-22:00]

Sixth Technical Session {Day 2 – 17:30 to 19.30}: Oral Presentations

Venue: Gladiolus Conference Room, CSIR-NBRI

Theme: Contemporary Issues

Chairperson: Prof. Anil Kumar Singh, Institute of Medical Sciences, BHU, Varanasi Co-Chairperson: Dr. Raja Chowdhury, Indian Institute of Technology, Roorkee Rapporteur: Dr. Poonam C. Singh, Principal Scientist, CSIR-NBRI, Lucknow	
17:30-17:45	<i>Waste to Wealth: Potential of Bio Energy in Circular Economy.</i> Mr. B. Mahesh , Re-Sustainability Limited, Hyderabad.
17:45-18:00	<i>Evaluation of sorption behaviours of enrofloxacin and ciprofloxacin onto agricultural soils.</i> Mr. Bala Mohan , Department of Environmental Sciences, Bharathiar University, Coimbatore.
18:00-18:15	<i>Some Potential Underutilized Wild Nutraceutical Plants for their conservation and sustainable utilization in Climate Change.</i> Dr Anand Prakash , CSIR-National Botanical Research Institute, Lucknow.
18:00-18:15	<i>Microplastic Menace: Assessing the Detrimental Effects of Microplastic Ingestion on Livestock Health and Implications for Human Well-being.</i> Dr Prarthana R. , ICAR- Indian Veterinary Research Institute, Izatnagar.
18:15-18:30	<i>Health risk assessment of heavy metals in rice to the local population of Varanasi city.</i> Dr. Rajesh Kumar Sharma , Department of Botany, Banaras Hindu University, Varanasi.
18:30-18:45	<i>Possible detoxification role of zinc and selenium supplementation against cadmium-induced oxidative stress in liver and kidney of the male albino rat.</i> Dr. Obaiah Jamakala , Department of Zoology, Sri Venkateswara College, University of Delhi, New Delhi
18:45-19:00	<i>One Health Approach: Heightening the Fight against Antimicrobial Resistance.</i> Dr. Ramendra Pati Pandey , School of Health Science and Technology, UPES, Dehradun.
19:00-19:15	<i>Hibiscus rosa-sinensis Linn mucilage as a sorbent material for oil spill remedies.</i> Dr. Afrida Hussain , Department of Botany, Cotton University, Guwahati.
19:15-19:30	<i>Challenges in traditional beekeeping for sustainable agriculture & horticulture development in district Uttarkashi.</i> Dr. Madhu Thapliyal , Department of Zoology, RCU Government PG College Uttarkashi.

DAY – 2

15th December, 2023 (Friday)

Venue: Lotus Auditorium, CSIR-NBRI

Cultural Programme

Time: 19:45-20:45

DINNER [21:00-22:00]

DAY – 3 Time: 7:30-8:30
16th December, 2023 (Saturday)
Venue: NBRI Garden, Lucknow
Environmental Awareness Drive

Special Session for BIS, Govt. of India {Day 3 - 10:00 to 11:30}
Need for Reforms in Environmental Service Sector in India
Venue: Lotus Auditorium, CSIR-NBRI

10:00-10:05	Welcome Address by Dr. Anju Patel, Scientist, CSIR-NBRI
10:05-10:30	About the BIS and Environmental Service Sector Committee SSD-07 by Shri. Kumar Sourabh, Scientist B/ Asst. Director, Bureau of Indian Standard
10:30-10:40	About the Special Session by Dr. Pankaj Kumar Srivastava, Organizing Secretary & Senior Principal Scientist
10:40-11:10	Brainstorming on the Need for Reforms in Environmental Service Sector in India & Scope of Standardization among the delegates of the conference
11:10-11:25	Key Points as the Follow-up Action Plan
11:25-11:30	Vote of thanks by Dr. Richa Rai, Senior Scientist, CSIR-NBRI

TEA [11:30-11:45]

DAY – 3 Time: 12:00-13:30
16th December, 2023 (Saturday)
Valedictory Session
Venue: Lotus Auditorium, CSIR-NBRI

12:00-12:05	Assembly in the Lotus Auditorium, CSIR-NBRI
12:05-12:10	Welcome Address and Introduction of the Chief Guest by Dr. Shakeel Ahmad Khan, Organizing Secretary & Principal Scientist, ICAR-IARI, New Delhi.
12:10-12:20	Report of the Conference GPCC – 2023 by Dr. Pankaj Kumar Srivastava, Organizing Secretary & Sr Pr Sci, CSIR-NBRI
12:20-12:40	NESA ANNUAL AWARD CEREMONY for the Year 2023 ✓ NESA SCIENTIST AWARD ✓ NESA ENVIRONMENTALIST AWARD ✓ NESA DISTINGUISHED SCIENTIST AWARD ✓ WOMEN EXCELLENCE AWARD ✓ NESA YOUNG SCIENTIST AWARD ✓ NESA JUNIOR SCIENTIST AWARD
12:40-12:45	Oath Taking Ceremony by Dr. Javed, President, NSEA Mission LiFE Pledge by Dr. Anju Patel Scientist, NBRI-EIACP Centre, CSIR-NBRI
12:45-13:00	Prize Distribution of Oral and Poster Presentation Winners by the Chief Guest of Valedictory Session
13:00-13:20	Presidential Address by the Chief Guest Shri. Anil Yadav, Director, U. P. State Council of Science & Technology, Govt. of Uttar Pradesh
13:20-13:25	Felicitation of the Chief Guest of Valedictory Session
13:25-13:30	Vote of Thanks by Prof. Altaf Ahmad, Vice President, NESA-New Delhi & Prof. Dept. of Botany, Aligarh Muslim University.

Lunch [13:30-14:30] & DISPERSAL OF ATTENDEES

