



Anamnesis – 2025

Golden Jubilee Celebration

School of Environmental Sciences

Alumni Connect



05 October, 2025. Convention Centre, Jawaharlal Nehru University.

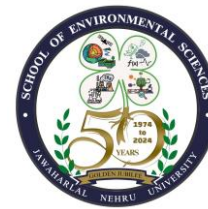
Program

5th October 2025 (Sunday)	
9:30-10:00 am	Registration (Convention Centre Foyer)
	INAUGURATION (AUDITORIUM I)
10:00-11:00 am	Lighting of the Inaugural Lamp
	Welcome by Prof. Kasturi Mukhopadhyay, Convener
	<i>Evolution & Excellence: A journey through SES</i> Prof. NJ Raju, Dean SES
	Address by the Chief Guest Prof. SK Sopory, Former Vice Chancellor, JNU
	SES Faculty Profile Book Release by the Chief Guest
	Vote of Thanks by Prof. PK Joshi, SES
	Group Photo
11:00 am-11:30 am	TEA/COFFEE & CONVERSATIONS
11:30 am-1:00 pm	Wisdom Hour - Alumni Talks: Sharing Experiences & Inspiring Ideas
1:00 -2:00 pm	LUNCH
2:00-3:30 pm	Fun & Games: The Memory Lane Edition
3:30-5:00 pm	Felicitation- Honoring Our Legacy – Our <i>Gurus</i>
5:00-5:30 pm	HIGH TEA & INTERACTIONS
5:30-8:30 pm	Musical Evening & Cultural Gala
8:30 pm	GALA DINNER <i>Swad aur Samvad – SES ke Sunhre Pachaas Saal</i>



Anamnesis – 2025

Golden Jubilee Celebration School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

Program

Day 1: 6 th October 2025 (Monday)		
8:30-9:30 am	Registration (Convention Centre Foyer)	
	INAUGURATION (AUDITORIUM II)	
9:30-9:35 am	Lighting of the Inaugural Lamp Opening Remarks by Prof. Kasturi Mukhopadhyay, Convener	
9:35-9:45 am	Welcome Address by Prof. NJ Raju, Dean SES	
9:45-10:00 am	Address by the Guests of Honor Prof. Willard S. Moore, USC, USA Mr. Sanjeev Tokhi, Director, ONGC Videsh	
10:00-10:15 am	Address by the Chief Guest Mr. VL Kantha Rao, Secretary, Ministry of Jal Shakti, GoI	
10:15-10:45 am	Plenary Talk	Prof. Willard S. Moore, USC, USA
10:45-10:50 am	Vote of Thanks by Prof. Dinesh Mohan, SES	
10:50-11:20 am	TEA/COFFEE	
	Chair: Ms. Nameeta Prasad, MoEF&CC Co-Chair: Prof. KG Saxena, Former Professor, SES	
11:25-11:45 am	Invited Talk	Prof. Sunil Kumar Khare, IISER, Kolkata
11:50 am-12:10 pm	Invited Talk	Prof. N Janardhana Raju, SES, JNU
12:15-12:35 pm	Invited Talk	Prof. AP Dimri, IIG, Mumbai
12:40-1:00 pm	Invited Talk	Prof. Suman Dhar, TERI, New Delhi
1:00 -2:00 pm	LUNCH	
	PARALLEL SESSION 1	
2:00-4:00 pm	Session 1A (Auditorium II) Theme 1: Energy, Ecosystem Services & Natural Resource Management Chair: Prof. Krishan Kumar Co-Chair: Prof. ML Dora	Session 1B (Committee Room) Theme 2: Climate Change & Environmental Health Chair: Prof. PK Joshi Co-Chair: Prof. Dhananjai Pandey
	2:00-2:20 pm Lead Speaker Padma Sree Pujari Geospatial Modeling for Environmental Assessment of	Ram Karan Bioengineering Extremophilic Enzymes and Nanostructures:



Anamnesis – 2025

Golden Jubilee Celebration

School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

Program

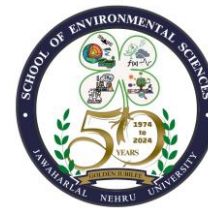
	Land Degradation Severity in Semi-Arid Regions of India Using Remote Sensing techniques	Culture-Based and Genomic Approaches for Sustainable Biotechnological Applications
2:25-2:35 pm	Jereem Thampan Climate-Induced Vegetation Shifts in Dryland Vegetation: Predicting Future Habitats of Keystone Species in Northwestern India	Garima Kaushik Packed Food-Safe or Hazardous? Tracing and Treating Bisphenol A from Food-grade Plastics
2:40-2:50 pm	Ankita Hazarika Are We Putting the Right Value on Nature? Identifying the Lags	SS Malik Eco-compliant Recycling of the Hazardous Explosive Waste
2:55-3:05 pm	Lusita Meilana How Indonesian Marine Protected Areas (MPAs) Are Doing: A Management Performance-Based Evaluation	Anshika Yadav Microwave Assisted Synthesis of bimetallic Ni-based MOFs for High Performance CO ₂ Capture from Humid Flue Gas: Experimental and Process Modelling
3:10-3:20 pm	Mayuri Barman Importance of Environmental Ethics and Deep Ecological Perspectives with Self Realization for Sustainable Development	Poushali Roy Evaluation of Organic Carbon Potential of Existing Agricultural Practices in the Lateritic Soils of the Suri-Bolpur Plain Region, West Bengal, India
3:25-3:35 pm	Abhishek Kumar Verma Fine Root Dynamics of Lantana camara across Two Elevations in the Lesser Garhwal Himalaya	Kulsum Salahuddin Empirical Assessment of Urban Climate Change, its Impact and People's Perception in Jaipur City, India
3:40-3:50 pm	Geeta Kumari Ecosystem Services, Biodiversity Conservation, and Urban Ecology: Changes in Ecosystem and Biodiversity of Nagaland due to the Introduction of New and Improved Varieties of Pig and Poultry	C.N. Sridhar Seasonal Fluoride Dynamics and Health Risk Assessment: A Case Study from Pambar River Aquifers of South India
4:00-5:00 pm	TEA/COFFEE & POSTER SESSION	



Anamnesis – 2025

Golden Jubilee Celebration

School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

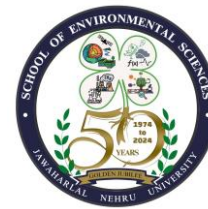
Program

Day 1: 6 th October 2025 (Monday)		
PARALLEL SESSION 2		
5:00-7:00 pm	Session 2A (Auditorium II) <i>Theme 1: Energy, Ecosystem Services & Natural Resource Management</i> Chair: Prof. SC Garkoti Co-Chair: Dr. Dileswar Nayak	Session 2B (Committee Room) <i>Theme 3: Environmental Pollution</i> Chair: Prof. Dinesh Mohan Co-Chair: Dr. Kumar Pranaw
5:00-5:20 pm Lead Speaker	Samjetsabam Bharati Devi Assessment of Bird Diversity and Associated Ecosystem Services Along the Land Use Gradient in West Sikkim, Eastern Himalaya, India	Tanushree Bhattacharya Environmental Challenges of Coal Mining: Heavy Metal(loid) Contamination, Bioaccessibility, Health Risks, and Native Plant-Based Remediation
5:25-5:35 pm	Madhur D. Gajbhiye Soil Nutrient Dynamics and Microbial Responses to Prosopis juliflora Invasion in Semi-Arid Ecosystems: Implications for Biodiversity Conservation and Sustainable Land Management	B.C. Sundara Raja Reddy Pulicat Lake and its Environs
5:40-5:50 pm	Kishor Sharma Bird Alpha and Beta Diversity along Agroecosystem-forest Gradient in the Eastern Himalaya, India	Bharti Agarwal Green Biosynthesized NiFe ₂ O ₄ Coated With rGO for Efficient Photocatalytic Degradation of Plastic Additives: Synthesis, Mechanism, and Kinetics
5:55-6:05 pm	Biswajit Patra In Silico Modelling of Piper betle-Honey Oral Gel and Its Societal Impact in Oral Healthcare	D John Babu Isolation and Characterization of plastic-degrading bacteria isolated from plastic dump sites using enrichment culture techniques
6:10-6:20 pm	Shivendra Dwivedi	Nikita



Anamnesis – 2025

Golden Jubilee Celebration School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

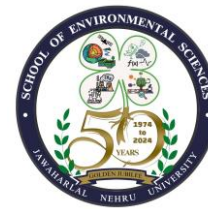
Program

	Slope Stability Analysis Using Artificial Intelligence (AI)	Occurrence and Distribution of Per- and polyfluoroalkyl substances (PFAS) in Rural-Urban Interface of River Yamuna, India
6:25-6:35 pm	Shashank Shekhar Flood Susceptibility Assessment in Gorakhpur, India Using OSL Chronology and Sediment Suspendability Modelling	Samar Dhiman Investigating PFAS's transport and fate in urban soils: Insights from ASE/LC-HRMS analysis
6:40-6:50 pm	M.M. Anees Illuminating Infrastructure Equality and Quality: Evaluating Urban Electricity Gaps for Climate Adaptation in Indian Cities	Mannala Prasad Seasonal variation of groundwater quality for irrigation suitability: A study from Mangampeta barytes mines region, South India.
6:55-7:05 pm	Prasenjit Acharya Retrieving high-resolution aerosol optical depth from Landsat and Sentinel image over southeast Asia	Madhuri Singh Global Transcriptomic Signatures Linking Stringent Response to Vancomycin Tolerance in <i>Staphylococcus aureus</i>
7:10-7:20pm	Rashmi Kumari Screening of feedstock to overcome Fuel crisis	
7:30 pm	DINNER	



Anamnesis – 2025

Golden Jubilee Celebration School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

Program

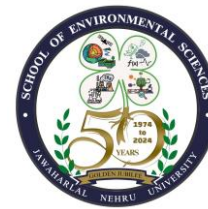
Day 2: 7 th October 2025 (Tuesday)		
8:30-9:30 am	Registration (Convention Centre Foyer)	
	Chair: Prof. Sudha Bhattacharya, Former Professor, SES Co-Chair: Prof. PS Khillare, Former Professor, SES	
9:30-10:00 am	Keynote Talk	Prof. Nils Moosdorf, ZMT, Germany
10:00-10:20 am	Invited Talk	Dr. Kaustav Nag, MoPNG
10:25-10:45 am	Invited Talk	Dr. G Areendran, IGCMC & IT WWF
10:45-11:15 am	TEA/COFFEE	
PARALLEL SESSION 3		
11:20 am-1:45 pm	Session 3A (Auditorium II) <i>Theme 2: Climate Change & Environmental Health</i>	Session 3B (Committee Room) <i>Theme 3: Environmental Pollution</i>
	Chair: Prof. Sudesh Yadav Co-Chair: Dr. NS Siddaiah	Chair: Prof. Arun K Srivastava Co-Chair: Dr. Ravi K Umrao
11:20-11:40 am Lead Speaker	Vasudha Agnihotri Nature's Purifiers: Exploiting Microbial and Plant Capabilities for Xenobiotic Removal from Contaminated Environments	Ritu Mishra COVID19, Neurological damage and Urban Air Pollution: A Triangle of Concern
11:45--11:55 am	Kirti Singh When The Air Turns Toxic: Assessing Human Exposure to BTEX And HCHO In Indoor and Outdoor Micro-Environments	Swati Chakraborty Sustainable Bioplastic Production from Pineapple Leaf Waste: A Circular Economy Approach for Eco-Friendly Packaging
12:00-12:10 pm	Ankur Rana Rapid Testing Kit for Iron Detection Via Colorimetric Based Assay Integrated With AI/ML Solutions	Dr Supriya G Pal Indigeneity and the Traditional Practices of Sustainable Mud Surface Finishes- A Study of Rathwa Tribal community, Gujarat
12:15-12:25 pm	Moumita Mondal	Sameera R Gunatilake



Anamnesis – 2025

Golden Jubilee Celebration

School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

Program

	Microbial Degradation of Plastic-associated Chemical, Benzyl-butyl Phthalate: A Study from Controlled Liquid Cultures to Complex Soils	Synthesis Route and Spatial Arrangement Govern Biochar-nZVI Stability and Contaminant Removal
12:30-12:40 pm	Etikala Balaji Ecological and Human Health Risk Assessment of Water in Gajulamandiyam Industrial Area, Tirupati District, A.P., India	Vineeta Kumari Biochar-Supported Metal Nanoparticles: Synthesis, Performance, and Environmental Applications
12:45-12:55 pm	Sayani Mitra Understanding the Multi-Drug Resistance Pattern of Staphylococci in Aquatic Environment of Delhi and Unravelling Their Molecular Mechanisms	Jonathan S. Singsit Drinking Water Quality Assessment in Longleng District, Nagaland
1:00-1:10 pm	Nishalika Singh From Spectral Data to Soil Biology: Remote Sensing Techniques for Earthworm Population Assessment	Pallavi Bhardwaj Effect of <i>Bacillus</i> sp. LPOC3 Strain Isolated from Municipal Solid Waste Compost on the Degradation of Azo Dye
1:15-1:25 pm	Jyoti Kushawaha Insights into Geochemical Controls on Geogenic Fluoride Distribution in Alluvial and Hard Rock Aquifers of India	Amanthi Perera Community-centric Sustainable Development Education as Enabler for Mitigating Pollution and Climate Adaptation – Lessons from Sri Lanka
1:30-1:40 pm	Muneeza Shakeel Footprints of the Future: Evaluating Sustainability Through Ecological Footprint Analysis	Sneha Dhankar Satellite Derived Air Pollution Climatology over India and Its Neighboring Regions: Spatio-Temporal Trends and Insights



Anamnesis – 2025

Golden Jubilee Celebration

School of Environmental Sciences



International Conference on Climate Change and Sustainable Development: Pioneering Paths in Environmental Sciences

06-07 October, 2025. Convention Centre, Jawaharlal Nehru University.

Program

1:45-2:45 pm	LUNCH
2:30-3:30 pm	POSTER SESSION
	VALEDICTORY & AWARDS CEREMONY
3:30-3:40 pm	Remarks by Prof. NJ Raju, Dean, SES
3:40-3:55 pm	Address by the Guest of Honor Dr. Jagvir Singh, MoES, GoI
4:00-4:10 pm	Address by the Chief Guest Mr. Suresh Jain, BVP
4:15-4:45 pm	Valedictory Awards: Recognizing Excellence
4:50-4:55 pm	Closing Remarks by Prof. Kasturi Mukhopadhyay, Convener
5:00pm	Vote of Thanks by Dr. Meenakshi Dua, SES

Poster Presentations

Poster numbers: P1-P100 – 06 October, 2025

[P01] GIS-Based Multi-Criteria Approach For Landslide Hazard Zonation

Along NH-03, Himachal Pradesh, India

Neeraj Kumar¹, Rajesh Singh^{1*}, Shivendra Dwivedi¹, Pranshu Mishra¹, Prateek Sharma¹

¹Rock Science and Rock Engineering Laboratory, Department of Geology, University of Lucknow, Lucknow, 226007, Uttar Pradesh, India

[P02] Slope Stability Analysis of Road Cut Slopes using Limit Equilibrium Method

Rajesh Singh¹, Rahul Kumar Verma^{2*}, Ravi Kumar Umrao³, Prateek Sharma¹

¹Rock Science and Rock Engineering Laboratory, Department of Geology, University of Lucknow, Lucknow 226007, India, ²Department of Civil and Environmental Engineering, Indian Institute of Technology, Patna 801106, India, ³School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India

[P03] Opportunity Mapping for Ecosystem-Based Landslide Risk Reduction in Wayanad Using High-Resolution Remote Sensing Data and Machine Learning

Akshay Ajith¹, Mahua Mukherjee²

¹ Research Scholar (Architecture and Planning Department, Indian Institute of Technology Roorkee, India), ² Head & Professor (Architecture and Planning Department, Indian Institute of Technology Roorkee, India)

[P04] Integrating Frequency Ratio and Shannon Entropy for Landslide Susceptibility Mapping along NH-58 in Chamoli, Uttarakhand, India

Shubham Singh¹, Nirlipta Priyadarshani Nayak^{1*}, Ashish Aggarwal¹, Harsh Kumar Verma²

¹Energy Cluster, UPES, Dehradun – 248007 (Uttarakhand), India, ²CSIR – Central Institute of Mining and Fuel Research, Research Centre Bilaspur – 495001, (Chhattisgarh), India

[P05] Digital Access and Traditional Echoes: Youth Perspectives on Risk Communication in Balasore, Odisha

Sidharth Verma¹ & Durgesh Tripathi²

¹ Research Scholar, Centre of Excellence in Disaster Management, Guru Gobind Singh Indraprastha University, Delhi, ²Professor, University School of Mass Communication, Guru Gobind Singh Indraprastha University, Delhi

[P06] From Quartz to Power: Sustainable Silicon Extraction for India's Solar Energy Goals

Namrata Singh¹, Rajesh Singh² and Vibhuti Rai²

¹Department of Chemistry, University of Lucknow, Lucknow 226007, ²Department of Geology, University of Lucknow, Lucknow 226007

[P07] Integrating Circular Economy Approaches in Floating Offshore Wind and Marine Energy: Enhancing Sustainability through Design Innovation and Resource Efficiency

Sanshita Pathak¹ and Usha Kumari Pathak²

¹Delhi School of Economics, University of Delhi and ²Kalindi College, University of Delhi

[P08] A Study of Noxious Weeds for Sustainable Biomethane Production and the Impact of Weed Management

Jyoti Yadav¹, Naveen Yadav², Bharath G², Smita S. Kumar^{*1}

¹Department of Environmental Studies, Central University of Haryana, Haryana-123031, India, ²Department of Environmental Studies, University of Delhi, New Delhi-110007, India.

[P09] Comparative Assessment of the Biomethane Potential for Black wheat, Barley, Oats, and Mustard Crop Residues and Kinetic Modelling

Naveen Yadav¹, Hemant Gurawalia¹, Bharath Gandu^{*1}

¹Department of Environmental Studies, University of Delhi, New Delhi-110007, India.

[P10] Industrially Important Halozymes from Haloarchaea: A Sustainable Approach to Biomass Utilization

Bhavna Parmar¹, Shubham Pandey¹, Ayushi Singh¹, Kuo-Wei Huang^{2*}, Ram Karan^{*1}

¹Department of Microbiology, University of Delhi South Campus, New Delhi, India, 110021, ²King Abdullah University of Science and Technology (KAUST), Thuwal 23955-6900, Saudi Arabia

[P11] Biogas Yield and Digestibility Assessment of Diverse Sorghum Varieties with Different Temperature Regimes

Hemanth Gurawalia

University of Delhi

[P12] Integrated Drainage Basin Analysis and Multi-Criteria Assessment of Groundwater Potential in the Karmanasa River Basin, Ganga Plain India

Vishesh Gupta^{1*}, Dhruv Sen Singh¹, Vijay Awasthi¹

¹Centre of Advanced Study in Geology, University of Lucknow, Lucknow - 226 007, India

[P13] Remote Sensing and GIS-Based Quantitative Hydro - Geomorphological Characterisation of Deoha River Basin, Ganga Plain, India

Vijay Awasthi, Dhruv Sen Singh*, Vishesh Gupta

Department of Geology, University of Lucknow, Lucknow-227007, India

[P14] Developing A Hydro-Geo-Syn Model for Hydrological Drought Analysis in The Chitravathi River Basin, India

Anusha Boya Nakkala¹, Pradeep Kumar Badapalli^{2*}, Padma Sree Pujari³, Sakram ugulothu², Raghu Babu Kottala¹

¹Dept of Geology, Yogi Vemana University, Kadapa, Andhra Pradesh -516005, India, ²CSIR – National Geophysical Research Institute, Uppal, Hyderabad, Telangana - 500007, India, ¹ Dept of Geology, Government College (Autonomous), Anantapur, Andhra Pradesh-515001, India

[P15] Aquatic Invasive Species (AIS) Removal and Environmental Change around a Shallow Aquatic Environment Monitored Using Remote Sensing

Deepak Kumar ^{1*}, Anushree Malik¹, Vivek Kumar¹, Kamlesh Singh ²

¹Centre for Rural Development and Technology, ²Department of Humanities & Social Sciences, Indian Institute of Technology, New Delhi-110016

[P16] Comparative Land Use and Land Cover Classification of Bengaluru Urban District in Karnataka, India using Sentinel-2 and Advanced Machine Learning on Google Earth Engine

Belormi Chattopadhyay^{1*}, Maya Kumari², Deepak Kumar³

¹Amity Institute of Geoinformatics & Remote Sensing (AIGIRS), Amity University Uttar Pradesh, Sector 125, Noida, Uttar Pradesh 201313, India, ²Amity School of Natural Resources and Sustainable Development (ASNRSD), Amity University Uttar Pradesh, Sector 125, Noida, Uttar Pradesh 201313, India ³Atmospheric Sciences Group, Department of Geosciences, College of Arts & Sciences, Texas Tech University, Texas-79409, USA

[P17] Evaluating the Accuracy of UAV-Based Digital Elevation Models Using RTK and GNSS for Earthwork and Terrain Analysis

Sushant Sharma¹ Pritam Chand¹

¹Central University of Punjab, Vill Ghudda, Bathinda

[P18] Unmanned Aerial Vehicle (UAV) Based Photogrammetry to Estimate Canopy Height and Carbon Sequestration in Central University of Punjab

Mohammed Shan N¹ and Pritam Chand²

¹School of Environment and Earth Sciences, Central University of Punjab, India, ²School of Environment and Earth Sciences, Central University of Punjab, India

[P19] From Honshu to the Hadal: Tracking Sediment Journeys and Earthquake Cycles

Sankhadip Poyra¹, Dhananjai K. Pandey¹, Mahesh Halder², Sambuddha Mishra³

¹School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India, ²National Geophysical Research Institute, Hyderabad, Telangana 500007, India, ³Centre for Earth Sciences, Indian Institute of Science, Bangalore, Karnataka 560012, India

[P20] Assessment of the status of the end-of-life scenario of photovoltaic solar panels and their management in the 21st century in India: a model-based approach

Abhishek Singh and Bikram Sen Sahu*

¹School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067

[P21] Sustainable Computing: Reducing Water and Energy Footprint of AI Data Centers

Mokshika Arya¹

¹Atal Bihari Vajpayee School of Management and Entrepreneurship

[P22] Green Currency Swaps And Their Role In Financing India's Renewable Energy Imports

Divya Sharma¹, Nandini²

¹ *Atal Bihari Vajpayee School of Management & Entrepreneurship (ABVSME), Jawaharlal Nehru University, India*

[P23] Assessing The Adequacy and Sustainability of Electric Vehicle Charging Infrastructure: A State-wise Analysis of EV-to-Charging Point Ratios And Renewable Energy Integration in India

Keshav Sharma¹, Ananya Rastogi²

^{1,2} *Atal Bihari Vajpayee School of Management & Entrepreneurship, Jawaharlal Nehru University, New Delhi, India.*

[P24] Validation of WRF-Simulated Cloud Fraction and Precipitation Against MODIS and GPM over Dehradun

Abhishek Kumar¹, Amit Kumar Mishra¹, Ujjwal Kumar²

¹*School of Environmental Sciences, Jawaharlal Nehru University, India*, ²*Doon University, Dehradun, Uttarakhand, India*

[P25] Remote Sensing-Based Water Footprint Assessment Benchmarking Sustainable Agriculture

Preeti Sambhor¹, Dr. Dharmendra Singh² and Dr. Nisha Kumari¹

¹*Centre of Excellence for Energy and Environmental Studies (CEEES), Deen Bandhu Chottu Ram University of Science and Technology, Murthal (Sonapat) -131039, India*, ²*Haryana Research Space Center (HARSAC), Gurugram node-122001, Haryana, India*

[P26] Geo-Spatial Assessment of Tourism-Induced Environmental Pressure in Sahastradhara, Dehradun: An Integrated Remote Sensing and Sustainability Index Approach

Anushka Verma¹ and Dr. Kh. Moirangleima²

¹ *Ph.D. Research Scholar, Faculty of Earth Sciences, Banasthali Vidyapith, Niwai – 304022, (Rajasthan), India*, ² *Assistant Professor, Faculty of Earth Sciences, Banasthali Vidyapith, Niwai – 304022, (Rajasthan), India*

[P27] Assessment of Aquifer Vulnerability of the Sai River Basin, Uttar Pradesh, India, Using GIS-based Modified-DRASTIC Model

Ashish Pratap Patel¹ and Ashwani Kumar Tiwari¹

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India*

[P28] Hyperspectral Remote Sensing as A Tool for Monitoring Medicinal Plant Quality: A Review

Ekperna Dubey^{1,2}, Bhuwal Ram¹ and Rajeev Bhatla²

¹*Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi-221005, India*, ²*Department of Geophysics, Institute of Science, Banaras Hindu University, Varanasi- 221005, India.*

[P29] Life Cycle Assessment of Plastic and Its Recycling Process

Akanksha Jha

Gurugram University, Mayfield Garden, Gurugram, Haryana

[P30] An Integrated Approach Using Geospatial and Biotechnological Tools for Mangrove Conservation along the Odisha Coast

Malini Prava Sethi¹, Jyoti Rai², Vaibhav Verma³

¹*Assistant Professor, Department of Geography, Ravenshaw University, Cuttack, Odisha, India*,

²*Kalindi College, Delhi University, Delhi, India; M.A. in Geography, Noida International University, Uttar Pradesh, India*, ³*Noida International University, Uttar Pradesh, India; M.A. in Geography, Om Sterling Global University, Haryana, India*

[P31] An integrated approach of Remote Sensing, GIS and AHP for delineation of Groundwater potential zones in parts of Mirzapur district, U.P. India

Birendra Pratap and Anamika Pandey

Department of Geophysics, Institute of Science, Banaras Hindu University, Varanasi-221005, India

[P32] Diversity of Oral Structures in Indian Tadpoles

Gopika C.^{1*} and S. D. Biju¹

¹Systematics lab, Department of Environmental Studies, University of Delhi

[P33] Guardians of the Green: Indigenous Ecological Knowledge and Environmental Conservation Practices among Santhal Tribes of Santhal Pargana

Dr. Sharad Suman Mishra

Assistant Professor Political Science (Magadh University, Bodhgaya)

[P34] Ecosystem Services, Biodiversity Conservation, and Urban Ecology: A Comprehensive Review

Sumbul Rehman

Department of Environmental Science, Jamia Millia Islamia University, New Delhi 110025

[P35] Urban Wetlands as Dual Assets: Integrating Biodiversity Conservation and Flood Resilience in India's Expanding Cities

Anand Chaurasia^{1*}, Piyush Saxena², Shivam Kumar³

Institute of Environment and Sustainable Development, Banaras Hindu University Varanasi UP

[P36] A Preliminary Study on Moth Diversity in Lumami Campus, Nagaland University

Imokokla Imsong¹, Ashutosh Tripathi²

^{1&2}Department of Environmental Science, Nagaland University, Hqs Lumami, Nagaland

[P37] Carbon Sequestration by Trees - A Study in Lumami Campus, Nagaland University

Ranika Roy, Rove T Sangtam, Ashutosh Tripathi

Department of Environmental Sciences, Nagaland University, Lumami, India

[P38] An Approach to Save Endangered Porcupine and Environment at Deulpur Village, Howrah, West Bengal

Debanjana Banerjee¹, Soham Naskar², Subhankar Ghosh³

¹Ramakrishna Mission Vivekananda Education and Research Institute, Ranchi, ²Indian Association for the Cultivation of Science, Kolkata, ³Eminent Institute of Management and Technology, Barasat, ⁴Deulpur High School, Howrah.

[P39] Habitat Compatibility and Avian Species Richness in Urban Riparian Ecosystems: A Geospatial Assessment of the Yamuna River Corridor

Dipti Samanta^{1*}, Ashis K Saha¹, Chirashree Ghosh²

Department of Geography, University of Delhi, Delhi-110007, Department of Environmental Studies, University of Delhi, Delhi-110007

[P40] Analyzing the Cooling Effects of Urban Green Spaces and parks: A Case Study of Varanasi city, Uttar Pradesh

Darshita Shukla and Sanjeev Sharma

Centre for the study of Regional Development, Jawaharlal Nehru University, New Delhi, 110067

[P41] Acoustic Vocalisation of Oriental Magpie Robin in Sariska National Park

Bharti¹, Anil Kumar², and Krishan Kumar¹

¹School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067, India, ²Gangetic Plains Regional Centre, Zoological Survey of India, Patna- 800026 (Bihar).

[P42] Allelopathic effect of *Solidago canadensis* L. on seed germination and growth of Foxtail millet (*Setaria italica* L.)

Anjali Devi, Satish Kumar Bhardwaj, Kuldip Singh Dogra, Pratima Vaidya, Praveen Kumar
Department of Environmental Science, Dr Y S Parmar University and Forestry, Nauni, Solan, 173230

[P43] Footprints of the Future: Evaluating Sustainability Through Ecological Footprint Analysis

Muneeza Shakeel¹, Adnan Rashid Lone²

¹*Department of Environmental Science, Jamia Millia Islamia, New Delhi, India,* ²*Department of Environmental Science, Govt. Degree College Hajin, J&K, India*

[P44] Urban Trees as Engines of Ecosystem Services: Enhancing Sustainability and Well-being in Modern Cities

Juhi Sinha

University School of Environment Management, Guru Gobind Singh Indraprastha University, India

[P45] Spatio-Temporal Assessment of the Sahibi River Basin: Hydrological Significance, Anthropogenic Pressures, and Restoration Prospects

Prerna Bhatia¹, Mudita Chaturvedi²

¹*Indira Gandhi National Open University, New Delhi-110068,* ²*Sri Venkateswara College, University of Delhi, New Delhi-110021*

[P46] Integrating Indigenous Knowledge and Ecology: Alder Tree Management for Sustainable Livelihoods in the Eastern Himalayan Region

¹Vimehe Toso and ²Sajid Ali

¹*Research Scholar, Department of Environmental Science, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India,* ²*Associate Professor, Department of Environmental Science, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India*

[P47] Perception Study Of Local Communities And Forest Officials Regarding The Proposed Aravalli Safari Park in Gurugram and Nuh District of Haryana

Divya Sakshi¹, Kavita², and Prodyut Bhattacharya³

¹*B.Sc Student, Sri Venkateswara College, University of Delhi, Delhi- 110021*

²*Ph.D. Research Scholar, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078,* ³*Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078*

[P48] Fodder Resource Documentation and Livelihood Linkages in the Shiwalik Landscape: A Study from Yamunanagar District, Haryana

Kavita¹ and Prodyut Bhattacharya²

¹*Ph.D. Research Scholar, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078,* ²*Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078*

[P49] Towards Sustainable Agriculture: Efficacy and Safety of Nanohydroxyapatite Urea

Prerna Seth^a, Ayushi Priyam^b, Pushplata Singh^c, Shashi Bhushan Tripathi^a

^a*Department of Biotechnology, Teri School of advanced studies, New Delhi, India,* ^b*IMPACT, School of Medicine, Deakin University, Geelong, Victoria, Australia,* ^c*National Centre of Excellence for Advanced Research in Agricultural Nanotechnology, TERI - Deakin Nanobiotechnology Centre, Sustainable Agriculture Division, The Energy and Resources Institute (TERI), New Delhi, India*

[P50] Food Systems: Agriculture, Agroforestry, and Green Initiatives: Changes in Livelihood, Nutrition, and Ecosystem of the Nagaland Population due to the Introduction of New and Improved Varieties of Pig and Poultry

Shreya Mishra
Research Assistant (Delhi University)

[P51] Ancient Indian Soil Nourishing Techniques: A Study from Sanskrit Agricultural Texts

Manashi Ghosh

Student School of Sanskrit and Indic Studies Jawaharlal Nehru University, India

[P52] Assessing the Contribution of Climate Resilient Agricultural Technologies in Advancing Sustainable Development Goals in Telangana, India

Boda Mahesh Naik¹, A K Singh², Saikat Maji³ and P Venkatesan⁴

^{1,2,3}*Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, India, ⁴ICAR-National Academy of Agricultural Research Management, Hyderabad, India*

[P53] Millet Identification, Consumption Patterns, and Dietary Diversity in Rural Jammu and Kashmir

Shweta Sharma^{1*}, Usha Mina^{1#}, Chubbamenla Jamir², and Meenakshi Gupta³

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India-110067, ²Native Foodscape Foundation, E-12, Green Park Main, New Delhi, India-110016, ³Division of Agronomy, Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu, Jammu and Kashmir, India-180009*

[P54] India's Integrated Vision for Forests, Food and Sustainability for strategic climate change mitigating in perspective of Indian Eastern Himalayas

Govind Ram Sankhala*, Durairaj Balasubramanian, Dharitri Borah**

Faculty of Agriculture and Life Science, Arunachal University of Studies, Namsai-792103, Arunachal Pradesh

[P55] Multidimensional Dissection of Drought-Induced Alterations of Forage and Grain Quality of Foxtail Millet (*Setaria italica* L.)

Diksha Kalita¹, Eshan Abbas², Aditya Kumar², and Nirmali Gogoi¹

¹*Department of Environmental Sciences, Tezpur University, Assam, Napaam-784028, Assam, India, ²Department of Molecular Biology and Biotechnology, Tezpur University, Napaam-784028, Assam, India*

[P56] The Study of Copper Associated Proteins of Bread Wheat Aimed Towards Climate Resilient Wheat Biofortification

Nivedita Bisht and Shailender Kumar Verma

Department of Environmental Studies, University of Delhi, 110007, New Delhi

[P57] Identification and Characterization of Zn-binding Proteins of Bread Wheat using Bioinformatic Approaches

Rajat Bhatt^{1*}, Shailender Kumar Verma¹

¹*Department of Environmental Studies, University of Delhi, Delhi-110007, India*

[P58] Stage-Specific Impacts of Heat Stress on Grain Quality Traits in Pigmented Rice (*Oryza sativa* L.)

Premia Taifa¹ and Nirmali Gogoi*¹

¹*Department of Environmental Sciences, Tezpur University, Assam, Napaam-784028, Assam, India,*

[P59] Smart Soil Solutions: Synthesized Zeolite from Fly Ash for Enhancing Crop Growth

Prerna Anand¹ and Asha Pandey*²

¹*Research Scholar, Department of Environmental Science, University School of Vocational Studies and Applied Sciences, Gautam Buddha University, Greater Noida 201 312, Uttar Pradesh, India,*

^{*2}*Assistant Professor, Department of Environmental Science, University School of Vocational Studies and Applied Sciences, Gautam Buddha University, Greater Noida 201 312, Uttar Pradesh, India*

[P60] India's Mission LiFE: A Domestic model for sustainable development

Debolina Roy^{1*}

¹Department of Political Science, Easwari School of Liberal Arts, SRM University AP, Amaravati 522240, Andhra Pradesh

[P61] Advancing a Circular Blue Economy for SDGs: Integrating Seaweed, Shrimp Aquaculture, and Edible Packaging under Mission LiFE

Athira Raveendran¹, Boda Mahesh Naik², Sacratees. J³

¹ PhD Research Scholar, Department of Economics, Manonmaniam Sundaranar University, Abishekapatti, Tirunelveli - 627012, Tamil Nadu, India, ² Senior Research Fellow, ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana (500 030), India, ³ Professor of Economics, Manonmaniam Sundaranar, University, Abishekapatti, Tirunelveli - 627012, Tamil Nadu, India.

[P62] Behavioral Inertia in Urban Lifestyles and the Hidden Cost of Online Order Culture

Sagar Kumar

Centre for the Study of World Economy, School of International Studies, Jawaharlal Nehru University, India

[P63] Optimal Control of Genotype-Structured Prey–Predator Model for Ecological Rescue

Sorokhaibam Cha Captain Vyom¹ and R. K. Brojen Singh¹

¹*School of Computational and Integrative Sciences, Jawaharlal Nehru University, India*

[P64] Ecological Importance and Conservation Needs of Alwara Lake Wetland in the Ganga Basin, Kaushambi District, Uttar Pradesh, India

Mansi Pandey¹, Kumud Dubey², Abhishek Verma³

^{1,3}*Forest Ecology and Climate Change Division, Forest Research Institute, Dehradun, Uttarakhand, India,* ²*ICFRE-ERC, Prayagraj, Uttar Pradesh, India*

[P65] Leaf Adaptations of *Quercus semecarpifolia* Along an Elevational Gradient in Kedarnath Wildlife Sanctuary

Kumari Manisha¹, Abhishek K Verma²

Forest Research Institute Deemed to be University, Dehradun, Uttarakhand, India

[P66] Biomass and Carbon Stock Assessment of Coniferous Forests Along Altitudinal Gradients in the Western Himalaya

Khushboo Kashyap and Satish Chandra Garkoti

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India

[P67] Mapping and Community Perspectives on Mangrove Restoration in Gorai and Manori, Mumbai

Sonali Singh

Doctoral Research Scholar, Indian Institute of Technology Bombay M.A, CSSS, JNU (2021-2023)

[P68] Medicinal Plant Diversity and Traditional Healing Practices in the Malayagiri Hills, Odisha

Dillip Kumar Behera, Shradhanjali Das, Surya Narayan Pradhan

School of Life Sciences, Sambalpur University, Odisha, India

[P69] Ethnobotanical Study of Traditional Medicinal Plants and Associated Indigenous Knowledge in Kalahandi District, Odisha, India

Subhankar Naik, Shradhanjali Das, Surya Narayan Pradhan³

School of Life Sciences, Sambalpur University, Odisha, India

[P70] Assessment of Criteria Air Pollutant Removal by Urban Forest Trees Using i-Tree Eco Model: A Case Study of Jamia Millia Islamia, South Delhi

Ritika Bhatia¹, Dr. Mani Singh², and Dr. Anand Kumar³

¹Department of Environmental Science, Jamia Millia Islamia, Delhi, India, ² Department of Environmental Science, Jamia Millia Islamia, Delhi, India, ³ Give Me Trees Trust, India

[P71] Subterranean Estuary Heterogeneity at Two Contrasting Beach Locations

Soumya Kanta Nayak^{1*}, Cátia M. Ehlert von Ahn², Naveen Gupta¹, Murugan Ramasamy², Alexandra Nozik², Nandimandalam Janardhana Raju¹ and Nils Moosdorf^{2,3}

¹School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India, ²Leibniz Centre for Tropical Marine Research (ZMT), Bremen, Germany, ³Institute of Geosciences, Kiel University, Kiel, Germany

[P72] Edible Fungal-Assisted Bio-Flocculation: A Sustainable Solution for Microalgal Harvesting

Pratiksha Laxmikant Baingane ^{1,2,3*}, Anushree Malik ¹, P. Hariprasad ², Jatindra Sahu ³

¹Applied Microbiology Lab, CRDT, IIT, Delhi, ²Environmental Biotechnology Lab, CRDT, IIT, Delhi, ³ Food and Bioprocess Engineering Lab, CRDT, IIT, Delhi.

[P73] Season–Depth Interactions Drive Variability in Soil Moisture, Available Nitrogen, Organic Carbon, and pH in Arecanut Plantations of Meghalaya

Badeishisha Mawkhiew¹ and David C Vanlalfakawma¹

¹Department of Forestry, Mizoram University, Aizawl 796004, Mizoram, India

[P74] International Year of Millets (IYM) 2023: A Study of Green Initiative in Uttarakhand

Anchal¹, Amrita Shilpi², Kamna Jain³

¹Assistant Professor, Department of Political Science, Lakshmibai College, University of Delhi,

²Associate Professor, Department of Political Science, Lakshmibai College, University of Delhi,

³Associate Professor in Department of Political Science, Sri Sanatan Dharm Prakash Chand Kanya Snakottar Mahavidyalaya, Roorkee Haridwar Uttarakhand.

[P75] Quantifying age-dependent carbon removal rates of global tree functional types: Improving Biological Carbon Capture Estimates for Climate Mitigation

Joswin P Joy¹, Somnath Baidya Roy¹

¹ Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, New Delhi, 110016, India

[P76] Circular Livelihoods and Ecological Wisdom: Tribal Resource Practices as Pathways to Sustainable Futures under Mission LiFE

Garima Singh¹, Meena Khwairakpam²

¹ School of Agro and Rural Technology, Indian Institute of Technology, Guwahati, ² School of Agro and Rural Technology, Indian Institute of Technology, Guwahati

[P77] Indigenous Practices in Ladakh: Climate-Resilient, Community-Led Approaches Aligned with Sustainable Development Goals

Archo Mahmooda¹, Arif Ahamad ^{*}

^{1*} Department of Environmental Science, Jamia Millia Islamia, Delhi, India

[P78] Mission LiFE and Sustainable Development Goals: Driving Behavioural Change for A Greener Future

Abhishek Kumar Tiwari, Pulkita, Yashika

Atal Bihari Vajpayee School of Management and Entrepreneurship, Jawaharlal Nehru University, India

[P79] Evaluating the Environmental and Livelihood Impacts of Mangrove Aqua-Silviculture: A Systematic Review Using PRISMA

Neetu Arya^{1,2}, Nimai Das¹, Sourabh Kumar Dubey³

¹Indian Institute of Forest Management, Bhopal, ²Forest Research Institute Deemed to be University, Dehradun, ³Aquatic Food Systems Specialist and Project Coordinator, WorldFish, Bhubaneswar, Odisha

[P80] Assessing the Impacts of Various Amine Compounds on Seed Germination and Seedling Growth in Different Cropping Systems

Dipesh^{1*} and N. C. Gupta¹

¹University School of Environment Management, GGS Indraprastha University, Dwarka, New Delhi-110078, India

[P82] Hybrid Sub-Surface Flow Constructed Wetlands: A Nature-Based Solution for Sustainable Wastewater Treatment

Shubham Kumar* and Dr. Prashant

Department of Environmental Science, Central University of South Bihar, SH-7, Panchanpur, Gaya, Bihar, 824236

[P83] Impact of Urbanization on Ecosystem Services; Case Study of Foothills Villages of Aravalli in Haryana

Sarina Biswas¹, Deepika Pandey^{1*} and Yanglem Sharatchandra Khuman²

¹Amity University Haryana, Gurugram, India, ²Indira Gandhi National Open University, New Delhi, India

[P84] Trends in Extreme Precipitation Indices Over the Mountainous Regions of Northwest Himalaya

Kritika^{1*}, Vartika Sharma¹, Veluswamy Venkatramanan¹, M S Shekhar²

¹School of Interdisciplinary and Trans-Disciplinary Studies (SOITS), Indira Gandhi National Open University, Maidan Garhi, New Delhi-110068, ²Defence Geoinformatics Research Establishment, DRDO, Him Parisar, Sector-37A, Chandigarh-160036

[P85] A Study on The Variability of Temperature and Precipitation Over Different Regions of Western Himalaya

Vartika Sharma^{1*}, Kritika¹, Veluswamy Venkatramanan¹, M S Shekhar²

¹School of Interdisciplinary and Transdisciplinary Studies, Indira Gandhi National Open University, Maidan Garhi, New Delhi, ²Defence Geoinformatics Research Establishment, Sector 37A, Chandigarh - 160036, India.

[P86] Radiative feedback of Lapse Rate in the Arctic Amplification

Sonam Kumari¹ and Lakshmi Kumar TV¹

¹ School of Environmental Sciences, Jawaharlal Nehru University, New Delhi – 110067

[P87] Co-Impact Evaluation of Climate Actions with Sustainable Development: Evaluating Synergies, Risks, and Governance Pathways

Saveela Mirza¹, Dr. Mani Singh¹

¹Department of Environmental Science, Jamia Millia Islamia (A Central University), New Delhi, India,

[P88] Assessment of Climate Change Using Trend Analysis of Ahmedabad City

Jayshree Nandi¹, Dr Niraj Singh², Dr Dharma Raj

¹PhD Scholar, Amity University Noida, ²Assistant Professor Amity University Noida, ³Scientist-C ICMR- National Institute for Research in Environmental Health, Bhopal Madhya Pradesh

[P89] Machine Learning-Based Estimation of Black Carbon Radiative Forcing and Its Climatic Impact over the Indo-Gangetic Plain

Vaishnav Bartaria¹, Auroop Ratan Ganguly³, Ashok Jangid², Ranjit Kumar¹

¹Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute Dayalbagh, Agra 282005 (India), ²Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India), ³Civil and Environmental Engineering, College of Engineering, Northeastern University, Boston, MA 02115 (USA)

[P90] Synergistic Impact of Blue-Green Infrastructure on Urban Heat Island: A Case Study of Kota and Ajmer

Pooja Kumari, Ronak Jain

School of Earth Sciences, Banasthali Vidyapith, Rajasthan, India

[P91] Urban Heat Island Mapping and Climate Resilience Strategies Using Remote Sensing and WebGIS: A Time-Series Case Study on Meerut District, India

Rayudu Venkata Komali Supraja¹, Varun Narayan Mishra¹, Khushbu Joshi², Maya Kumari³

¹Amity Institute of Geoinformatics & Remote Sensing (AIGIRS), Amity University Uttar Pradesh, Sector 125, Noida, Uttar Pradesh 201313, India, ²Amity School of Natural Resources and Sustainable Development (ASNRSD), Amity University Uttar Pradesh, Sector 125, Noida, Uttar Pradesh 201313, India, ³Graduate, WSP in India, Sector 16A, Noida, Uttar Pradesh 201301

[P92] Assessment of Climate Variability Impact on Forest Fire regime in mid-hills of Himachal Pradesh

Anshika Kishor Sharma, Pratima Vaidya, Satish Kumar Bhardwaj, Purnima Mehta

Department of Environmental Science, Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan 173230.

[P93] Hydrogeochemical Control and Seasonal Variation of Major and Trace Elements in Groundwater of Upper Ganga Plain

Azka Azmi¹, Rashid Umar¹

¹Department of Geology, Aligarh Muslim University (AMU), Aligarh–202002, UP, India.

[P94] Short-term Air Quality Degradation During Firecracker Events: Elemental Characterization and Source Apportionment of PM_{2.5} in North India

Riya Sharma^{a,b}, P Hariprasad^c, and S. K. Tyagi^{b*}

^aSchool of Interdisciplinary Research, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India, ^bDepartment of Energy Science and Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India, ^cCentre for Rural Development and Technology, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110016, India

[P95] Estimation and characterization of pathogenic bioaerosols in sanitary landfill in Urban Delhi

Ankita Shelly¹, Rekha Kumari², Chirashree Ghosh¹

Department of Environmental Studies, University of Delhi, Delhi-110007, India, Molecular Biotechnology and Bioinformatics Laboratory, Miranda House, University of Delhi, Delhi-110007, India

[P96] Environmental Drivers of Gut Microbiome Alterations in Coronary Artery Disease

Devansh Rughwani¹, Ashwini Kumar Ray^{1*}

¹Department of Environmental Studies, University of Delhi, India

[P97] Microplastic Pollution in one of the most polluted rivers in India: Yamuna in Delhi

Preeti Sharma*, Pooja Ghosh*, Vivek Kumar*

Environmental risk assessment and management lab, Indian Institute of Technology, New Delhi, India

[P98] Extensive Exposure of Microplastic on Marine Ecosystem and Its Impact on Human Health Through Food Chain

Krati Rastogi, Dr. Neeraj Pal Malik

Department of Environmental Science, Department of Botany, Bareilly College, (M.J.P. Rohilkhand University) Bareilly, 243001, UP, INDIA.

[P99] Investigating the Role of Soil in Shaping the Human Gut Microbiota Composition and their Functional Implications: A Comparative Insight From Rural and Urban Settings.

Avaneesh Shukla^{1#}, Ashwini Kumar Ray^{1*}

¹*Department of Environmental Studies, University of Delhi, India*

[P100] Climate Change and Health In Slums: A Scoping Review Of Knowledge, Attitudes, And Practices From A Global Public Health Perspective

Ayushi Khanduri¹, Ashwini Kumar Ray¹

¹*Department of Environmental Studies, University of Delhi, India*

Poster numbers: P101-P201 – 07 October, 2025

[P101] Understanding the Impact of Temperature Extremes on Cardiovascular Health: Insights From Animal Model Studies

Anjali Priya¹, Ashwini Kumar Ray^{1*}

¹*Department of Environmental Studies, University of Delhi, India*

[P102] Impact of Monsoonal Dynamics on Major Ion Hydrochemistry And Heavy Metals Contamination of Groundwater In Parts of Lakhimpur District, Uttar Pradesh

Syed Salman Ahmad^{1*}, Rashid Umar¹

¹*Department of Geology, Aligarh Muslim University (AMU), Aligarh–202002, UP, India.*

[P103] In-Transit Air Pollution Exposure and Potential Health Implications: A Pilot Study of Public Transport Commuting from Agra to Delhi

Anand Swaroop¹, Vaishnav Bartaria², Ashok Jangid³

¹*Department of Mechanical Engineering, Faculty of Engineering, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India),* ²*Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India),* ³*Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India)*

[P104] Bioaerosols: Uncovering Environmental and human health risks

Somil Kumar, Ankita Shelly, Chirashree Ghosh

Department of Environmental Studies, University of Delhi, Delhi, India – 110007

[P105] Widespread Impact in Environmental Protection and Human Health in India

Prem Kumar Patel

Research & Development Section, PFA Institute of Research Uttar Pradesh, Prayagraj.

[P106] Airborne Endotoxins in Particulate Matter (PM₁₀): Seasonal Variation, Chemical Profiling, and Health Implications

Vivek Saraswat¹, Vaishnav Bartaria¹, Mohammad Ikbāl¹, Ranjit Kumar¹

²*Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India)*

[P107] Microbial Valorization of Lignocellulosic Biomass for Sustainable Gamma-Valerolactone Production

Nayanika Borah and Kumar Pranaw*

Environmental Micro-Biotechnology Lab (EMBL), School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067

[P108] Multidrug Resistance Pattern of Enterococci Isolated from Urban Wastewater and River Yamuna in Delhi and Managing through 2D Nanomaterials

Anjali Singh¹, Sayani Mitra¹, Nikhilesh Mahapatra², Bimlesh Lochab², Madhuri Singh¹, Kasturi Mukhopadhyay^{1*}

¹Antimicrobial Research Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India ²Materials Chemistry Laboratory, Department of Chemistry, School of Natural Sciences, Shiv Nadar Institution of Eminence, Gautam Buddha Nagar 201314, India

[P109] Integrated Metagenomic and Culture-Based Profiling of Multidrug-Resistant Enterococci and Resistome in the Sahibi River, Delhi

Manohar Kumar, Madhuri Singh, Kasturi Mukhopadhyay*

Antimicrobial Research Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India

[P110] Environmental Modulation of Mixed-Species Biofilms: Interaction Dynamics, Antibiotic Resistance, and Public Health Implications

Shivangi Singh, Madhuri Singh, Kasturi Mukhopadhyay*

Antimicrobial Research Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067, India

[P111] Microbial degradation of anthracene by bacteria isolated from auto-garage soil contaminated with hydrocarbons

Rashmika I.*¹ Venkata Narayana A.¹

Department of Biotechnology, Vignan's Foundation for Science Technology & Research (Deemed to be university), Vadlamudi-522213 (Andhra Pradesh), India.

[P112] Bioaerosols: Biotechnological Frontiers in Detecting Airborne Pathogens

Madhu Mishra², Ankita Shelly¹, Chirashree Ghosh¹

¹Department of Environmental Studies, University of Delhi, Delhi-110007, India, ²Gargi College, University of Delhi, 110049, India

[P113] Biodegradation of Ciprofloxacin by a Non-Resistant, Biofilm-Negative *Bacillus* sp. S1: A Sustainable Strategy for Fluoroquinolone Remediation

Sunidhi Bhatt¹, Subhankar Chatterjee²

¹Bioremediation and Metabolomics Research Group, Department of Environmental Sciences, Central University of Himachal Pradesh, Himachal Pradesh - 176206, India, ²Bioremediation and Metabolomics Research Group, Dept. of Ecology & Environmental Sciences, School of Life Sciences, Pondicherry University, Puducherry - 605 014, India.

[P114] Characterization of Sesquiterpene Synthase gene(s) for the Over-production of High value Compounds from *Pelargonium graveolens* (L.)

Liptikanta Bhoi^{1,2}, Ajit Kumar Shasany^{1,2}, Indraneel Sanyal^{1,2}

¹Division of Molecular Biology and Biotechnology, CSIR- National Botanical Research Institute, Lucknow-226001, India, ²Academy of Scientific and Innovative research (AcSIR), Ghaziabad- 201002, India

[P115] PGPR-based Biomanagent of *Xanthomonas translucens* Induced Bacterial Leaf Streak Disease in Wheat: A SEM and CLSM Insights

Sadaf khan*, Mohammad Saghir Khan

Department of Agricultural Microbiology, Faculty of Agricultural Sciences, Aligarh Muslim University, Aligarh 202002; Uttar Pradesh

[P116] Cold- and Salt-Tolerant Enzymes: Culture-Dependent and Metagenomic Discovery of Psychrohalozymes

Ayushi Singh, Anjali Gupta, Shubham Pandey, Bhavna Parmar, Ram Karan*

Department of Microbiology, University of Delhi South Campus, New Delhi, India, 110021

[P117] Genomic Insights into Polyextremophilic Microbial Communities and Their Enzymes

Shubham Pandey¹, Bhavna Parmar¹, Anjali Gupta¹, Kuo-Wei Huang^{2*}, Ram Karan^{1*}

¹Department of Microbiology, University of Delhi South Campus, New Delhi, India, 110021, ²KAUST

Catalysis Center and Division of Physical Science and Engineering, King Abdullah University of Science and Technology, Thuwal 23955-6900

[P118] Gas Vesicle Protein Nanoparticles and Extremozymes from Extremophiles for Advanced Biotechnological Applications

Anjali Gupta, Ayushi Singh, Shubham Pandey, Ashish Gaurav, Ram Karan*

Department of Microbiology, University of Delhi South Campus, New Delhi, India, 110021

[P119] Synergizing Microbial EPS, Necromass, and Biochar: Emerging Strategies for Soil Carbon Sequestration.

Parineeta Tomar

Department of Microbiology, J.C. Bose University of Science and Technology, YMCA, Faridabad

[P120] Engineered Rhizomicrobiomes for Bioremediation of Environmental Carcinogens

Khyati Chowdhary

Department of Biotechnology, J.C Bose University of Science and Technology, YMCA, Faridabad

[P122] Integrated Microbiological Assessment of Bioaerosols in Ambient Air: Culture Methods, Microscopy, and FESEM Analysis

Mohammad Ikbal¹, Ranjit Kumar¹

¹Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra-282005 (India)

[P123] Screening and Characterization of Halobacteria for Exoenzymes (Environmental Microbiology and Biotechnology)

Bhumika Sharma

Department of Biosciences and Biotechnology, Banasthali Vidhyapith

[P124] Evaluating the Drug Resistance Pattern of Staphylococci Isolated from River Yamuna, Delhi and Combating through 2D-Nanomaterials

Nancy¹, Sayani Mitra¹, Anjali Singh¹, Soumyasri Nikhilesh Mahapatra², Bimlesh Lochab², Kasturi Mukhopadhyay^{1*}

¹Antimicrobial Research Laboratory, School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India, ²Materials Chemistry Laboratory, Department of Chemistry, School of Natural Sciences, Shiv Nadar Institution of Eminence, Gautam Buddha Nagar 201314, India

[P125] From Emission to Solutions: Advances in Carbon Sequestration (CS) and Carbon Capture, Utilization, and Storage (CCUS) Technologies

Yaseen Ansari¹ and Dr. Arif Ahamad²

^{1,2}Department of Environmental Science, Jamia Millia Islamia (A Central University), Delhi, India

[P126] Linking Rhizodeposition Traits to Soil Organic Carbon Mineralization in Tropical Grassland Ecosystem

Nima Kerketta¹, Amzad H. Laskar² and Nirmali Gogoi^{1*}

¹Environmental Plant Physiology and GHG Laboratory, Department of Environmental Science, Tezpur University, Napaam, 784028, Assam, India, ²Geosciences Division, Physical Research Laboratory, Ahmadabad, 380009, Gujarat, India

[P127] Synthesis and Characterization of Ternary Catalyst for Direct Hydrogenation of CO₂ to Methanol

Shivani Vyas¹, Pawan Rekha^{*,1}, Sonal Shrivastava^{*,2}

¹Department of Chemistry, Malaviya National Institute of Technology Jaipur-302017, RJ, INDIA,

²Department of Chemical Engineering, Indian Institute of Technology, Patna-801106, Bihar, INDIA

[P128] Carbon sequestration and allometric models for apple orchards in wet temperate zone of Himachal Pradesh

Tanvi, Mohinder Kumar Brahmi, Pratima Vaidya, Satish Kumar Bhardwaj
Department of Environmental Science, Dr Yashwant Singh Parmar University of Horticulture and Forestry, Nauni, Solan, 173230

[P129] Challenges in Implementing Ccus in Developing Nations: Case of India.

V.A. Waghmare, K. R. Jadhav

Department of Environmental Science, K.R.T. Art, B.H. Commerce, A.M. Science, (K.T.H.M.) College, Nashik, Maharashtra, India

[P130] Climate Change and Agricultural Productivity: A Review of GIS and Machine Learning Approaches for Yield Forecasting

Shaziya Farhat¹ and Sirajuddin Ahmed²

^{1,2} *Department of Environmental Science, Jamia Millia Islamia, New Delhi, India*

[P131] Chemical Signatures in The Atmosphere: Unraveling Photochemical Dynamics Of Summer And The Complex Haze Chemistry of Winter

Deeksha Sharma¹, Aparna Satsangi¹

¹ *Dayalbagh Educational Institute, Dayalbagh, Agra*

[P132] Spatio-Temporal Variations of Urban Heat Island over Meerut City

Manil Kumar Kashyap¹ and Krishan Kumar¹

¹ *School of Environmental Sciences, Jawaharlal Nehru University, New-Delhi, India*

[P133] Satellite-Based Analysis of Aerosol Impacts on Atmospheric Temperature and Stability over the Bay of Bengal

Vaibhav Bangar and Amit Kumar Mishra

School of Environmental Sciences, Jawaharlal Nehru University, India

[P134] Tracing the influence of air pollution and environmental parameters on land surface temperature over Delhi-NCR

Shadman Nahid¹, Ram Pravesh Kumar¹

¹ *School of Environmental Sciences, Jawaharlal Nehru University, India*

[P135] Groundwater at risk: Nitrate contamination and public health in the Ponnaiyar River basin, south India

C.N. Sridhar¹, T. Subramani ^{1*}

¹ *Department of Geology, College of Engineering Guindy (CEG), Anna University, Chennai-600025, Tamil Nadu, India*

[P136] Green Synthesis of Zinc Oxide Nanoparticles from *Alstonia scholaris* for Bio-medical Applications

Sukriti Sharma¹, Carolyne Chinneikim Mate¹, Paulraj Rajamani*

School of Environmental Sciences, Jawaharlal Nehru University

[P137] Black Carbon Exposure as a Risk Factor for Childhood Undernutrition in India

Rajesh Bag¹, Ram Pravesh Kumar¹, Sagnik Dey²

¹ *School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.*

² *Centre for Atmospheric Sciences, Indian Institute of Technology (IIT) Delhi, New Delhi, India*

[P138] Long-term Effects of 5G Lower Band Mobile Phone Radiation on Reproductive Health of Female Wistar Rats

Neha Jha¹, Priyanka Sarsaiya¹, Anuj Kumar Tomar¹, Jay Prakash Nirala¹, PK Chaturvedi², Surabhi Gupta², Paulraj R*

¹ *School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India,* ² *Department of Reproductive Biology, AIIMS*

[P139] Radiofrequency Radiation-Induced Oxidative Stress and Antibiotic Resistance Shifts

in *Micrococcus luteus*

Anuj Kumar Tomar, Neha Jha, Jay Prakash Nirala, and Paulraj Rajamani*

School of Environmental Sciences, Jawaharlal Nehru University, India

[P140] Combined effect of Black Carbon aerosols and heat stress on human health over two Indian cities Agra and Chennai

Sanchit Pandey¹, M. Ashok Williams², Vaishnav Bartariya¹, Ranjit Kumar¹, Ashok Jangid³, T.V. Lakshmi Kumar⁴

¹Department of Chemistry, Dayalbagh Education institute, Agra, ²Upper Air Instrument Division, India Metrological Department, New Delhi, ³Department of Physics and Computer Sciences, Dayalbagh Education institute, Agra, ⁴School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110 067

[P141] Machine Learning Approach to PM_{2.5} Forecasting and Health Risk Assessment During Stubble Burning Period in Delhi

Sandhya^{a,b} and Arun Srivastava^a

^aSchool of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India; ^bDepartment of Environmental Studies, Shaheed Bhagat Singh College, University of Delhi, New Delhi, India.

[P142] Seasonal Variations of selected Heavy Metals Concentration in Groundwater and Human Health Risk Assessment in Mansa District, Punjab

Tamanna^{1*} and N. C. Gupta¹

¹University School of Environment Management, GGS Indraprastha University, Dwarka, New Delhi-110078, India

[P143] Root Endophyte Fungus *Piriformospora indica* Alleviates Stress on Physiological Maturity in Pearl Millet Plants Grown in Soil Amended with Wood Biochar.

Anshika, Vishad Agarwal, Meenakshi Dua.

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi- 110067, India

[P144] Medicinal Flora of Ladakh and Nagaland: Comparative Ethnopharmacological and Phytochemical Insights for Human Health.

Nokentemla S Longkumer¹, Tundup Lamo¹, and Dr. Ilora Ghosh¹

¹School of Environmental Sciences, Jawaharlal Nehru University, India

[P146] Efficient Biomass Production and Silica Removal by *Navicula* sp. in a Photobioreactor Using Tap Water Supplemented with Nutrients

Amit Kumar^{1,2*}, Sumit Dhali², H K Malik¹, Anushree Malik²

¹Plasma and Science Technology Lab, Department of Physics, IIT, Delhi, ²Applied Microbiology Lab, CRDT, IIT, Delhi

[P147] Antimicrobial and Anticancer Potential of *Curcuma* species

Ducin Ningthoujam^{1#}, Anuj Kumar Tomar¹, Pradeep Kumar Vaid¹, Paulraj Rajamani^{1*}

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067

[P148] Carbon capture and sequestration: An overview of impacts and capture techniques

Shweta Rai, Abhishek Kumar Chaubey, Dinesh Mohan*

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India

[P149] Climate Change and Agricultural Productivity: A Review of GIS and Machine Learning Approaches for Yield Forecasting

Shaziya Farhat¹ and Sirajuddin Ahmed²

^{1,2} Department of Environmental Science, Jamia Millia Islamia, New Delhi, India

[P150] *Tupistra nutans* Inflorescence-Derived Silver Nanoparticles for Human Health: Anticancer Applications in Hepatocellular Carcinoma

Anuradha Kumari¹, Ashim Chandra Roy¹, and Dr. Ilora Ghosh^{1*}

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi.*

[P151] Groundwater Hydrochemistry in Agricultural and Industrial Areas of Sonipat, Haryana, India

Rimjhim Kumari, Abhishek Kumar Chaubey, Tej Pratap, Shivang Kapoor, Dinesh Mohan*
School Of Environmental Sciences, JNU, New Delhi 110067

[P152] Exploring the Nexus Between Environment-Friendly Behaviour and Competitive Dynamic: A Study of Coal-Fired Thermal Power Plants in India

Meharr Kaur¹, Dil B. Rahut², Sukanya Das³

¹*Student, M.Sc. Economics, TERI School of Advanced Studies, New Delhi, India* ²*Vice Chair Research, Asian Development Bank Institute, Tokyo, Japan* ³*Professor, TERI School of Advanced Studies, New Delhi, India*

[P153] Green biosynthesized N-doped nickel ferrite chitosan-coated nanocomposite for high photocatalytic degradation of organic pollutants from wastewater

Rakesh Kumar Saini¹, Manviri Rani^{1*}, Uma Shanker^{2*}

¹*Department of Chemistry, Malaviya National Institute of Technology Jaipur, Rajasthan-302017-INDIA,*

²*Department of Chemistry, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India-144008*

[P154] Degradation of Methylparaben using Ozonation and Photocatalytic Ozonation

Aparna Mamsam^{1*}, Kochuparambil Ajayaghosh Akhilghosh¹, Anbazhagi Muthukumar¹ & Muthukumar Muthuchamy¹

¹*Department of Environmental Science, Central University of Kerala, Kasaragod, India*

[P155] Enhanced Solar-Light Driven Photocatalytic Potential of Green Synthesized Ag-doped Cobalt Oxide Incorporated rGO Nanocomposite: Mechanism Insight and Agricultural Application

Gauri Shukla¹, Manviri Rani^{1*}, Uma Shanker^{2*}

¹*Department of Chemistry, Malaviya National Institute of Technology Jaipur-302017, Rajasthan, India,* ²*Department of Chemistry, Dr B R Ambedkar National Institute of Technology, Jalandhar - 144008, Punjab, India*

[P156] Chemical Profiling and Antifeedant Activity of lichen Ramalina conduplicans Vain Extracts

Shivani^{1*}, Om Prakash¹

¹*Department of Chemistry, Collage of Basic Sciences and Humanities, G.B. Pant University of Agriculture and Technology, Pantnagar – 263145, India*

[P157] Effect of State Variables onto Sorption-Desorption Behavior of Kresoxim Methyl Fungicide onto Diverse Indian Soils

Shruti Pathak¹, Anjana Srivastava¹, P.C. Srivastava²

¹*Department of Chemistry, College of Basic Sciences and Humanities, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, US Nagar 263145 Uttarakhand, India,*

²*Department of Soil Science, College of Agriculture, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, US Nagar 263145 Uttarakhand, India.*

[P158] Silver Bullets for Pollution: A review on Nanotechnology-Based Remediation Strategy

Shailja Tripathi¹, B. Rupini¹

¹*Environmental Science, School of Interdisciplinary and Trans-disciplinary Studies, IGNOU, India*

[P159] Biodegradation of Organophosphate Malathion by Bacterium PC1 Isolated from Orchards of Himachal Pradesh: A Sustainable Bioremediation Approach to Mitigate Pesticide Pollution

Priyanka Choudhary¹, Subhankar Chatterjee²

¹Bioremediation and Metabolomics Research Group, Department of Environmental Sciences, Central University of Himachal Pradesh, Academic Block-Shahpur, District-Kangra, Himachal Pradesh - 176206, India, ²Bioremediation and Metabolomics Research Group, Dept. of Ecology & Environmental Sciences, School of Life Sciences, Pondicherry University, R.V. Nagar, Kalapet, Puducherry - 605 014, India.

[P160] Development of High performance Clean Cookstove using processed based biomass

Sivaprakash Parameshwaran

Department of Energy Science & Engineering, Indian Institute of Technology Delhi, India

[P161] Impacts of Microplastics on Vegetable Crops and Bioremediation of Agricultural Soil

Sneha G S¹, Sudesh Yadav²

¹Research Scholar, ²Professor School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India.

[P162] Evaluation of Health of Bhindawas Wetland through WQI and NDWI: A Case Study

Deepak Kumar¹, Krishan Kumar Selwal², Jyoti Rani^{*1}

¹Centre of Excellence for Energy and Environmental Studies, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, City-Sonipat- 131039, Haryana, India. ²Departement of Biotechnology, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, City-Sonipat- 131039, Haryana, India.

[P163] Assessment of Size-Segregated Fungal Bioaerosols in Residential Apartments in Gurugram, Haryana (India)

Vanisha Ahlawat, Swati Tyagi, Arun Srivastava*

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India

[P164] Reimagining Waste Disposal for a Sustainable Urban Future: The Case Study of Varanasi

Varsha Mishra^{1*}, P.C. Abhilash²

^{1*}Research Scholar, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi-221005 ²Associate Professor, Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi-221005

[P165] Characterization and Risk Assessment of Microplastics in Legacy Waste of Major Landfill Sites in New Delhi

Prerna Patel¹, Madan Kumar¹, Pooja Ghosh¹, Vivek Kumar^{*1}

¹Centre for Rural Development and Technology, Indian Institute of Technology, Delhi

[P166] Fate and Alteration of Microplastics in Textile Dyeing Effluents: A Case Study from India

Deepti Surana¹, Pooja Ghosh^{1*}

¹Environment Risk Assessment and Management Lab, Indian Institute of Technology Delhi, New Delhi, India

[P167] Transport of Fine and Coarse Dust Particles from Desert to Urban Areas Over Northern India

Sudhanshu S, S Yadav

School of Environmental Sciences, Jawaharlal Nehru University, India

[P168] Biochemical Response of Ficus religiosa and Ficus benghalensis Against Decadal Variation in Air Pollution

Zarka Mallik¹, Mani Singh²,

Department of Environmental Sciences, Jamia Millia Islamia, India

[P169] Understanding the Fumigation of Aerosols Using Collocated Measurements of Black Carbon Mass Concentration And Atmospheric Boundary Layer Height

M. Ashok Williams^{1,2}, T.V. Lakshmi Kumar^{3*}, M. Venkat Ratnam⁴, and D. Narayana Rao⁵

¹Atmospheric Science Research Laboratory, Department of Physics, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India, ²Upper Air-Instrument Division, India Meteorological Department, New Delhi, India ³School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, India ⁴National Atmospheric Research Laboratory (NARL), Gadanki, Andhra Pradesh, India ⁵SRM University AP, Amaravati, Andhra Pradesh, India

[P170] Valorization of Sewage Sludge through Co-composting with Farm Residues

Ankita Thakur¹, Pratima Vaidya¹, Satish Kumar Bhardwaj¹

¹Department of Environmental Science, Dr YS Parmar University of Horticulture and Forestry Nauni, Solan 173230

[P171] Water Quality Status and Health Card of Ashwani Rivulet in Himachal Pradesh

Eepsa, Pratima Vaidya¹, Satish Kumar Bhardwaj¹, Hukam Chand Sharma¹

¹Department of Environmental Science, Dr.Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan

[P172] Spatial and Temporal Variability of Water Quality in Gobind Sagar Lake

Yagyesh Kant¹, Vipin Sharma¹, Satish Kumar Bhardwaj¹, Pratima Vaidya¹

¹Department of Environmental Science, Dr Y.S. Parmar University of Horticulture and Forestry Nauni, Solan, 173230

[P173] Quantification and Utilization pattern of Apple pruned wood waste in Kullu district of Himachal Pradesh

Tanya Negi, Pratima Vaidya, Satish Kumar Bhardwaj, Pramod Verma

Department of Environmental Science, Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan, 173230

[P174] Most Contributory Criteria Air Pollutant for the Air Quality in Delhi over the Past 8 Years: A Trend Analysis

Danish Ali¹, Mani Singh¹, Sirajuddin Ahmed¹

¹Department of Environmental Science, Jamia Millia Islamia, New Delhi -110025, India

[P175] Emerging Threats in Urban Waters: A Study of Microplastic Contamination In The Yamuna River, Delhi

Namrata Singh¹ and Deeksha Katyal²

¹Ph.D. Research Scholar, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078, ²Professor, University School of Environment Management, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, New Delhi- 110078

[P176] Development of Hollow Fibre Membrane Integrated Anaerobic Bioreactor for improved microbial consortium-based treatment efficiency of industrial grade reactive dye and real textile effluent

Aman Chaudhary^{1*}, Saurabh Samuchiwal², Anushree Malik², Shaikh Ziauddin Ahammad³

¹Applied Microbiology Laboratory, School of Interdisciplinary Research, Indian Institute of Technology, New Delhi-110016, ²Applied Microbiology Laboratory, Centre for Rural Development and Technology, Indian Institute of Technology, New Delhi-110016, ³ Department of Biochemical Engineering & Biotechnology, Indian Institute of Technology, New Delhi- 110016

[P177] Role of Elevated CO₂ in Management of Ozone Stress in *Rauvolfia serpentina*: A Step towards Understanding Climate-Resilient Strategies in Medicinal Plants

Shailza Mishra¹, Naushad Ansari², Supriya Tiwari^{1*}

¹Laboratory of Ecotoxicology, Department of Botany, Institute of Science, Banaras Hindu University, Varanasi 221005, India

[P178] Fibrous Microplastics in the Spectrum of Microplastics: A Review of its Sources, Fate, And Effects

Iqra Bashir^{1*}, Sirajuddin Ahmed²

¹Department of Environmental Science, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India, 110025, ²Department of Environmental Science, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi, India, 110025

[179] Time-Released Defence: An Eco-Compatible Slow released Chlorpyrifos Formulation for Prolonged Pest Control with a Reduced Environmental Footprint

Hemant Veer Jain^{a,b}, Samar Dhiman^{a,b}, Nasreen Ghazi Ansari^{*a,b}

^aAnalytical Chemistry Laboratory, Analytical Sciences & Accredited Testing Services Group, Analytical Sciences & Services, Industrial Support through Technological Solutions (ASSIST) Division, CSIR-Indian Institute of Toxicology Research (CSIR-IITR), Vishvigyan Bhawan, 31, Mahatma Gandhi Marg, Lucknow 226001, Uttar Pradesh, India. ^bAcademy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India

[P180] Seasonal Variability of Air Quality and Its Meteorological Drivers in the Indo-Gangetic Plain using a Geospatial Approach

Ranjit Singh¹, Sanjeev Sharma¹, Ram Pravesh Kumar²

¹Centre for the Study of Regional Development, Jawaharlal Nehru University, India, ²School of Environmental Sciences, Jawaharlal Nehru University, India

[P181] Mapping and Analyzing the Research Landscape on Biochar for Wastewater Treatment in India: A Bibliometric Study (2010 to 2025)

Abhishek Kumar Chaubey, Brahmacharimayum Preetiva, and Dinesh Mohan*

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India

[P182] Differential Redox Homeostasis in Wheat Cultivars Mediated by Ascorbate-Glutathione Pathways under Elevated O₃ and CO₂

Ashish Kumar Mishra¹, Supriya Tiwari^{1*}

¹Laboratory of Ecotoxicology, Department of Botany, Banaras Hindu University, Varanasi,

[P183] Geochemical Characteristics and Health Risk Assessment of Fluoride in Groundwater of Balasore District, Odisha, India

Sanjit Kumar Sahu^{*1}, Prakash Chandra Mishra¹, Mihir Tanay Das¹, Annadasankar Roy^{2,3}, Tirumalesh Keesari^{2,3} Sudarsan Sahu⁴,

¹ P. G. Department of Environmental Science, Fakir Mohan University, Balasore, Odisha, India, ² Isotope and Radiation Application Division, Bhabha Atomic Research Centre, Mumbai, India, ³ Homi Bhabha National Institute, Anushaktinagar, Mumbai, India, ⁴ Rajiv Gandhi National Ground Water Training & Research Institute, Naya Raipur, Chhattisgarh, India

[P184] Detection and Characterization of Microplastics, and Screening of Bacteria utilizing Polymers as Carbon Source Isolated from the Yamuna River, Delhi

Anshika Kushwaha, and Paulraj Rajamani

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi 110067, India School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-10067, India

[P185] Assessment of municipal landfill leachate using leachate pollution index: A Case study from Haryana, India

Abhilasha Yadav, Jyoti Rani*

Centre of Excellence for Energy and Environmental Studies, Deenbandhu Chhotu Ram University

of Science and Technology, Murthal Sonipat- 131039, Haryana, India

[P186] Hexavalent Chromium Adsorption Using Algal Residual Biomass–Chitosan composite: A Green and Economic Approach for Sustainable Water Remediation

Shubham Kumar^{1*}, Abhishek Sahu¹, Alok Kumar¹, Anushree Malik¹

¹*Applied Microbiology Laboratory, Centre for Rural Development and Technology Indian Institute of Technology, New Delhi-110016*

[P187] Solar-Powered River Interception for Ocean Plastic Prevention: The Ocean Cleanup Interceptor Initiative

Diya Gupta¹, Harsh², Vishal Srivastava³

^{1, 2, 3}*School of Engineering and Technology, Vips-Tc*

[P188] Green Synthesis of Copper Nanoparticles Using Kahwa Tea Leaf Extract and Its Application In Wastewater Treatment

Shubhangini Kumari¹, Vandna Singh², Deepali Singh³

¹*Affiliation, (School of Vocational Studies and Applied Sciences, Gautam Buddha University, India),*

²*Affiliation, (School of Vocational Studies and Applied Sciences, Gautam Buddha University, India),*

³*Affiliation, (School of Biotechnology, Gautam Buddha University, India)*

[P189] Engineered Biochar for the Removal of Microplastics from Surface Water

Priyanka Sehrawat¹, Abhishek Kumar Chaubey¹, Dinesh Mohan^{*1}

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India*

[P190] Seasonal and diurnal variation of volatile organic compounds and criteria air pollutants in the ambient air of Delhi

Richa Sharma¹ and Amit Kumar Mishra¹

¹*School of Environmental Sciences, Jawaharlal Nehru University, India*

[P191] Sustainable Arsenic (III) Remediation from Groundwater Using Iron- Modified Biochar Composites

Asish Kumar Pradhan^{*1}, Abhishek Kumar Chaubey¹, Naina Raje², and Dinesh Mohan^{1**}

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067,* ²*Analytical Chemistry Division, B.A.R.C., Mumbai – 400085, India*

[P192] Sustainable Valorisation of Waste into Nutrient-Enriched Biochar

Vineet Vimal¹ and Dinesh Mohan¹

¹*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi*

[193] Sustainable Phosphate Removal Using Engineered Subabul Biochar: A Circular-Economy Perspective

Shivang Kapoor, Dinesh Mohan^{*}

School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India

[P194] Iodine in Groundwater: Global Occurrence, Mobility, and the Need for Targeted Studies in Indian Aquifers

Gaurav Verma¹, Soumya Kant Nayak², Naveen Gupta³, N. Janardhana Raju^{*}

^{1,2,3}*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi-110067, India*

[P195] Insight into Submarine Groundwater Discharge along the Indian coast and its Role in Nutrient and Contaminant Transport

Naveen Gupta¹, Soumya Kanta Nayak², N. Janardhana Raju^{*}

^{1,2,3}*School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 110067*

[P196] Plastic Foot prints in the Ganga River Basin: Strategies for Sustainable Pollution Mitigation

¹Deepika Sharma, ¹Ramovatar Meena

¹*School of Environmental Sciences, Jawaharlal Nehru University, India*

[P197] Integrating Green Infrastructure for Urban Air Quality Improvement

Pranjal Singh and Aparna Satsangi

Department of Chemistry, Dayalbagh Educational Institute, Agra

[P198] Detoxifying Hexavalent Chromium Using *Bacillus subtilis* Isolated from NTPC Industrial Effluent

Sourabh Roy Chowdhury^{1,2}, Asha Lata Singh¹ and Anil Kumar Singh²

¹*Bioremediation Laboratory, Environmental Science, Department of Botany, Banaras Hindu University, Varanasi-221005, India, ²Department of Dravyaguna, Institute of Medical Science, Banaras Hindu University, Varanasi - 221005, India*

[P199] Integrating Medicinal Plant Extracts Into Phytoremediation For Improved Metal Uptake And Plant Resilience

Akanksha Joshi¹, Anilkumar Singh²

¹*Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi -221005, India, ²Department of Dravyaguna, Faculty of Ayurveda, Institute of Medical Sciences, Banaras Hindu University, Varanasi -221005, India*

[P200] Monitoring of Emerging Pollutants in Ib River, Odisha: Spatial Distribution, Source Analysis, and Environmental Health Risk Assessment

Anupama Bhagat, Surya Narayan Pradhan

School of Life Sciences, Sambalpur University, Odisha, India

[P201] Seasonal Assessment of Heavy Metal Concentration in Edaphodonkawai Fish of River Yamuna, Uttar Pradesh

Poonam Verma, Vinod Kumar*, Dharendra Yadav and Shalini Yadav

Department of Chemistry, Agra College, Agra - 282004