



National Conference

**ECO: 2022**

**(Air-Water- Soil)**

Organized by

**Bharat Seva Prathisthan**

in association with

**J C Bose University Science and Technology, YMCA Faridabad, Haryana & GIFT**

**Programme Schedule (Tentative)**

**Venue: J C Bose University of Science & Technology, YMCA, Faridabad, Haryana**

**Paper Presentation**

**Air Pollution**

<b>23<sup>rd</sup> Sept. 2022-Day 1</b>	<b>3:30 PM to 6.00 PM</b>	<b>Room No- G-7</b>
<b>Session Coordinators: Dr. Ompal Singh &amp; Dr. Vinod</b>		<b>Session Chair: Prof. MunishVashisth &amp; Prof PradipDimiri</b>

<b>Air Pollution</b>			
<b>S. No.</b>	<b>Title</b>	<b>Author Name</b>	<b>Signature</b>
1.	Air Pollution in Delhi NCR Region: Rationale and Policies for Prevention	ArshiHussain and NeelamVashist	
2.	Air Pollution: Impacts and Control	Abhilashasaini, Tanisha manchanda and NeelamVashisth	
3.	Coupling Between Climate Variability and Long- Term Trends in Tropospheric Ozone over Indian Sub-Continent	Chhabeel Kumar and AnkitTandon	
4.	PotentialofAzollaPlantsasBio-filterforControlling Soil, Air and WaterPollution	A. K. Pathak, R. K. Sharma and Vikas Sharma	
5.	Carbon Sequestration Potential of PinusRoxburghii in the Western Himalayas	Kuldeep Joshi and Sandeep Sehgal	
6.	Applications of Ambient Noise Measurements inunderstanding Landslide Directional Behavior	SunandaPatial and Ambrish Kumar Mahajan	
7.	Effect of lockdown amid covid-19 pandemic on air quality in a city of Haryana	RavinderBainsla,ArvindGupta,Vivek Kumar and SawarGupta	
8.	AssessmentofAirQualityParametersofDTUAAQM Station usingWEKA	RitikanChoudhary, Nikita Thakkur and MeenaKapahi	

9.	Analysis of Air Pollution using WEKA	DivyanshSinghal, Hardeo Thakur and Deepa Arora	
10.	Understanding Climate Change, Environment and Natural Resources	Dr. BirAbhimanyu Kumar	
11.	Urban-Rural Environmental Inequality	Tanisha Chhabra	
<b>Water Pollution</b>			
12.	Use of Sulphur in Wastewater Treatment and Pollution Bioremediation	Gitanjali	
13.	Synthesis of MoS <sub>2</sub> Nanosheets by Liquid Exfoliation Method for Wastewater Treatment	Shweta, Kaushal Kumar, Vinamrita Singh, Sohan Lal and Arun Kumar	
14.	Status of Springs in the Frontal Part of Himalaya: A Case Study from the Jawalamukhi Region	Richa Panjla, Ambrish Kumar Mahajan and Sanjay Pandey	
15.	Potential of Bacteria in Controlling Water Pollution	Devanshi, Tanisha Manchanda and Neelam Vashisht	
16.	Novel Technologies for Improving Irrigation Management and Enhancing Water Productivity	Saurabh Thakur, Sanjeev K Sandal, Bhawna Babal and Aanchal	

<b>23<sup>rd</sup> Sept. 2022-Day 1</b>		<b>3:30 PM to 6.00 PM</b>		<b>Room No-Multimedia Center</b>	
<b>Session Coordinators: Dr. Shruti &amp; Dr. Anuj Arya</b>				<b>Session Chair: Prof. Komal Kumar Bhatia &amp; Prof Anju Gupta</b>	
<b>Water Pollution</b>					
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18.	Novel Technologies for Improving Irrigation Management and Enhancing Water Productivity	Saurabh Thakur, Sanjeev K Sandal, Bhawna Babal and Aanchal			
19.	Importance of Irrigation Scheduling Criteria in Field Crops	Meera Devi, Jitender Kumar Chauhan and Arti Shukla			
20.	Water Conservation: Evaluation of Rooftop Rainwater Harvesting System and Gravity Fed Drip Irrigation System in Rainfed Area of Jammu Region	Dr. Sushmita M. Dadhich, Er Sidharth Arya, Dr. R.K. Srivastava, Dr. Sushil Sharma, Dr. R. Puniya and Dr. A.P. Singh			
21.	Fertigation studies and irrigation scheduling in drip irrigation system in tomato crop	Kanik Kumar Bansal, Meenakshi Attri, Naveena and Hritik Srivastava			

22.	Effect of Vitamin C Supplementation on Some Hormonal and Biochemical Parameters in Water Deprived Goats(Capra Hircus) in Different Seasons	Dr. Sumeet Kour, Dr. Jonali Devi and Dr. Kamal Sarma	
23.	Semi-Arid Agro Ecosystem of India: Future Concerns for Sustenance	Rajeev Kumar Saha	
24.	Design of Automated Boiler Safety System	Nikhil Dev, Rajeev Saha and Sanjay Sharma	
25.	Assessment of Cyto-Toxic Effects caused by Microplastics in Terrestrial Plants	Mandeep Kaur, Ming Xu and Lin Wang	
26.	Analysis of Waste Water Effluent in Maliana Sanjauli Stpsewage Treatment Plant, Shimla	Harsh Sharma	
27.	Water Pollution Control and Conservation Effect of pesticides on soil and water pollution	Rakesh Sharma	
28.	Role of Nanotechnology in Water Purification	Ekta, V.K. Sinha, Jitendra Gangwar and Yashpal Sharma	
29.	Detection of Alkali Metals in Water Sample	Rashmi Pundeer and Minakshi	
30.	A Micro Level Study of Increasing Population Pressure on Water Resources in Suketi River Basin, Himachal Pradesh	Ajay Kumar, Dr. Navneet Kaur, Dr. Shilpa Devi	
31.	Climate Change and Stress on Biodiversity Livelihood Security in Rainfed Areas through Mixed Cropping Systems	Meenakshi Gupta, Sarabdeep Kour and Rakesh	
32.	Application of Fe <sub>3</sub> O <sub>4</sub> particles in De-Emulsification of Oil in Water Emulsion	Dr. Parsanta	
33.	Constructed Wetland and Waste Water Remediation	Vaishali Saini and Anita Girdhar	
34.	Remediation of Heavy Metal Ions from Water/ Wastewater by using Natural Adsorbents: Experimental and Optimization Studies	Rajeev Kumar, Jyoti Chawla and Vijay Kumar	
35.	Removal of Heavy Metal Lead from Water using Peanut Hull and Rice Husk	Mehak Verma, Anita Girdhar and Sarita Sachdeva	

24 <sup>th</sup> Sept. 2022-Day 2 (2PM -4PM)			Room No-G-7
Session Coordinators: Dr. Anuj Arya & Dr. Kaushal Kumar			
Session Chair: Prof. Atul Mishra & Prof. Pawan Singh Malik			
Water Pollution			
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36.	Physicochemical Characterization of Electroplating Wastewater Collected From Common Effluent Treatment Plant, Faridabad	Meena Kapahi and Sarita Sachdeva	
37.	Physio-Chemical Analysis of Groundwater Quality of Charkhi Dadri, Dudhwa Village, Haryana, India	Annu Khatri, Shaili Srivastava and Indu Thakur Shekar	
38.	Remediation of Contaminants from Water using Biopolymer-Based Nanomaterials	Jyoti Chawla, Rajeev Kumar, Vijay Kumar	
39.	Evaluation of Physico-Chemical Properties of Ground Water in Village of Palwal District in Haryana, India	Shagufta Jabin, Jyoti Chawla and Anupama Chadha	
40.	Novel cost-effective biochar column for rapid removal of fluoride from drinking water	Sonia Nahar, Rahul, and Suman Nagpal	
41.	Innovative Phytoremediation Treatment Methodology – AnaPhyto	Nirmal Mehendale	
42.	Adsorption capacity of modified plant-based adsorbents for heavy metal sequestration from wastewater - A review	Sachin Kumari and Indu Rani	
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43.	Urban Slums and their Impact on Environment: A Geographical Analysis of Haryana	Sumit Kumar and Priyanka	
44.	Synthesis and Characterization of Low-Density Polyethylene-Epoxy-Based Films	Pooja Singh and Arun Kumar	
45.	Ladakh, on Forefront of Climate Change	Sarabdeep	
46.	Soil Organic Carbon and Available Nutrient Content as Influenced by Erosion Control Measures in Lower Shivalik of Jammu	Vivak M. Arya, Meena Yadav, Vikas Sharma, Rajeev Bharat, M. Iqbal Jeelani Bhat, Anil Bhat and Rakesh Sharma	
47.	Efficacy of nZVI in Contamination in Soil Remediation of Arsenic	Shruti Kumari	

48.	Determination of Radioactivity of Soil and Grain	PreetiKumari, ManaliChakraborty, SavitaBudhwar and Suneel Kumar	
49.	Qualitative and Morphometric Analysis of Compost Developed in Decentralized In-Vessel Reactor	Apurav Sharma, Sanjiv Kumar Soni and Raman Soni	
50.	Physical Properties Altered by soil erosionConservation Practices in Lower Himalays of Jammu	MeenaYadav, VivekM.Arya, Vikas Sharma, Rajeev Bharat and M.IqbalJeelaniBhat	
51.	Managing Woolly Apple Aphid using natural Farming Practices	SumitVashisth and SudhirVerma	
52.	Short-Term Zinc Biofortification Effects on Morpho-EconomicParametersofRiceinRice-WheatSequence in Inceptisols of Jammu,J&K	Gulzar Ahmad Bhat, Renu Gupta and Vikas Sharma SumitVashisth and SudhirVerma	
53.	Factors Influencing the Farmers' Decision to Adopt Direct Seeded Rice Technology: Case of Barnala District of Punjab	Suryendra Singh, P. S. Tanwar, AnjulySharma and Rajbir Singh	
54.	Effect of Mulching on Soil Moisture Conservation and Improving Apple Yield in Cold Desert Region in North-Western Himalayas	Upinder Sharma, SumitVashisth and SudhirVerma	
55.	Eco-Friendly Management of Soil-Borne Pathogen in Pea under Dry Temperate Zone, Spiti, Himachal Pradesh, India	SumitVashisth and SudhirVerma	
56.	Bioremediation of Fluoroquinolones by Using Bacterial Cultures Isolated from Hospital Sewage Plants and Veterinary	SunidhiBhatta, Priyanka Choudharyb and SubhankarChatterjeea	
57.	Biodegrading Potential of Fungi isolated from Kitchen Waste	Upma Dutta, Muskaan Singh and Brajeshwar Singh	
58.	An Open Source Information Technology Based Application for Spatial Resources Storage and Visualization	SudhaChaturvediand Dr. TapsiNagpal	
59.	StrategiesinShunningCropResidueBurning:AStepTowards Clean and GreenEnvironment	Ashish Santosh Murai, Rajbir Singh and Arvind KumarUpma Dutta, MuskaanBrajeshwar Singh	
60.	Soil and Water Conservation Technologies for Rainfed Area of Jammu District	R.K.Srivastava,SushmitaM.Dadhich, J.P. Singh, Sushil Sharma, Ashish Krishna Yadav and Bhaskar Singh	

61.	Conservation Agriculture for Preserving Soil Carbon and Nitrogen in Foothill Shivaliks	Divya Sharma, Vikas Sharma and Divya Chadha	
<b>24<sup>th</sup> Sept. 2022-Day 2 (2PM -4PM)</b>		<b>Room No-Multimedia</b>	
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62.	Effect of Seed Treatment and Foliar Application of Nano DAP on Yield and Economics of Fine Rice under Irrigated Subtropics	MeenakshiAttri, Neetu Sharma and B.C Sharma	

	of Jammu Region		
63	Natural farming for restoration of agricultural ecology	Narender Pantora, Vikas Sharma and Ritika Gupta	
64.	A Comparative Study of Natural Farming, Organic Farming and Conventional Farming in Rice Based Cropping System under Subtropics of Jammu Region	Naveena and A.K. Gupta	
65.	Effect of Different Land Use Systems on Soil Chemical and Biological Properties at various depths of Chandanwari Micro watershed	Haziq Shabir, Gulzar Ahmad Bhat, Aziz Mujtaba and Peeyush Sharma	
66.	Improving Biological Activity in Sodic Soil through Halophilic Microbial Amendments	Divya Chadha, Vikas Sharma and Divya Sharma	
67.	Revolution of CRISPR Cas9 Technology to Engineer Biotic and Abiotic Stress Tolerance in Crops	Paridhi Saini and Abhilasha Shourie	
68.	Role of Imaging Techniques in Determining Abiotic Stress in Crop Plants	Vishal Kumar	
69.	Identification and Characterization of Micro- and Nano-Plastics in Food, Water and Soil	Nilanjana Saha	
70.	Detection of Plant Diseases in Cruciferous Vegetables using Deep Learning Techniques	Riya Kumari	
71.	Crop Plant Phenotyping to Identify Impact of Environmental Stresses through Hyperspectral Imaging	Sneha Agarwal	
72.	Exogenous Concentration of Heavy Metal Ions in Soil Correlating with Physiochemical Parameters in Edible Plants	Charu Rajpal	
73.	Selection of Crops on the Basis of Certain Soil Factors: A Comparative Study of Machine Learning Methods	Vijay Kumar, Jyoti Chawla and Rajeev Kumar	
74	Impact of climate change on terrestrial eco system	Nishtha Madaan and Sarita Sachdeva	
75.	Soil Quality Preferred to Promote Growth of Tomato as an Edible Vaccine	Nalini and Sarita Sachdeva	
76.	Productivity and Economic Enhancement through Vegetables Intercropping in Autumn Planted Sugarcane Based Cropping System	Sanjay Kumar and A K Sharma	

77	Antenna sensor for Environmental application	Priyanka, Sonia Bansal, Preet kaur	
78	Low-cost inkjet printed humidity sensor using graphene oxide on PET paper	Afsana, Sonia Bansal	
79	Special class of higher-order wolfe type model and their duality results under generalized assumptions	Abhishek	
80	Humidity sensors for environmental based applications	Amir Mansoori, MunishVashishath, Shamim Ahmed, Sonia	
81	Duality relations for a class of a multiobjective fractional programming problem involving support functions	RamuDubey	
82	Multiobjective G-Wolfe type fractional programming problem and their duality relations with generalized conditions	RamuDubey	
83	Inhibition of beta-lactamase enzyme using plant metabolites to tackle antibiotic resistance	Pooja, SK Khare	
84	Optimization of Pollution Free CZTS Solar Cell	Sachin Kumar, Shashi Kumar, Damini, Priyanka, Khushboo Dalal and Anuj Kumar Arya	
85	Management of Soil Pollution	Garima, Kirti, Arshi Hussain, Neelam Vashisth	
86	Potential of Azolla Plants as Bio-filter for Controlling Soil, Air and Water Pollution	A. K. Pathak, R. K. Sharma and Vikas Sharma	
87	Impact of Industrial Waste on Soil Microflora	Anjali Yadav, Tanisha Manchanda, Neelam Vashisht	
88	Natural Farming Cultivation of Leaf Lettuce in Summer Season in Solan District of Himachal Pradesh	Dr. Seema Thakur, Hemlata Kuashal, Dr. Kuldeep Thakur, Dr Upender Singh and Dr Rajesh Thakur	

89	Qualitative and Morphometric Analysis of Compost Developed in Decentralized In-Vessel Reactor	Apurav Sharma, Sanjiv Kumar Soni and Raman Soni	
90	Biodegradation of organophosphorus pesticides by the bacteria isolated from the apple orchards of the Kullu region of Himachal Pradesh	Priyanka Choudhary, Sunidhi Bhatt, Subhankar Chatterjee	
91	Livelihood Security in Rainfed Areas through Mixed Cropping Systems	Meenakshi Gupta, Sarabdeep Kour and Rakesh	