

**NATIONAL CONFERENCE**  
**on**  
**NATURAL SCIENCES AND SUSTAINABLE DEVELOPMENT FOR**  
**ENVIRONMENT: CONTESTATIONS AND AFFIRMATIONS (NSSECA-2023)**  
**(January 20 & 21, 2023)**

**Technical Program**

**Day -1**  
**20<sup>th</sup> January 2023**

**8:00 – 9:00 am – Registration**

**9:00 AM-10:00 AM**  
**Inaugural Session**  
**Compering: Dr. Gautam Geeta J.**

9:00 am: Floral tributes to Bharat Ratna Mahamana Pt. Madan Mohan Malviya ji  
9:05 am: BHU Kulgeet by MMV Students  
9:10 am: Welcome Address by Principal (MMV) Prof. Inu Mehta  
9:20 am: About the conference by Prof. Neelam Srivastava (Convener NSSECA-2023)  
9:30 am: Inaugural Address by Chief Guest Dr Nandita Singh  
Consultant Scientist at NBRI, Lucknow  
10:00 am: Presidential Address by Prof. Madhoolika Agrawal,  
Dean (Faculty of Science), I.Sc. BHU  
10.15 am: Formal vote of thanks by Dr. Usha Kumari (Organizing Secretary, NSSECA-2023)  
10:15-11:00 am: High Tea

**Session-1**  
**Chairperson : Prof Meenakshi Singh**

11:00 AM - 11:45 PM	Keynote talk	Dr. S. Venkata Mohan, Senior Principal Scientist, IICT, Hyderabad Topic: <b>Waste fed Biorefineries for Sustainable Fuels and Chemicals</b>
11.45AM - 12:15PM	Plenary talk	Prof. Sanjeev K. Thakur Department of Botany, Central University of Punjab, Bathinda Topic: <b>STRATEGIES TO DEVELOP CLIMATE RESILIENCE IN CROP PLANTS</b>
12.15 PM - 1.30 PM	Poster Presentation	

**1.30 PM-2.30 PM Lunch**

<b>Session-2</b> <b>Chairperson : Prof. Sunita Singh</b>		
2.30 PM - 3.15 PM	Keynote talk	Prof. S. B. Agrawal, Department of Botany, Institute of Science, Banaras Hindu University, India Topic: <b>Understanding the response of Ozone pollution on Indian Crop plants, food security and human health</b>
3.15 PM - 3.45 PM	Plenary talk	Dr. Arvind Singh Geosciences Division, Physical Research Laboratory (PRL) Navrangpura, Ahmedabad Topic: <b>Ocean: a solution to the present climate crisis</b>
3.45 PM – 5.00 PM	<b>Tea Break and Poster Presentation</b>	
<b>Day -2</b> <b>21<sup>th</sup> January 2023</b>		
8.00 AM-9.00 AM- Breakfast		
<b>Session-3: Invited Lectures</b> <b>Chairperson : Dr P. C. Abhilash</b>		
9:00 AM-11:30 AM – Invited talks		
9.00 AM-9.15 AM		Dr. K. Suresh. Surface & Environmental Control Plasma Lab, Department of Physics, Bharathiar University, Coimbatore Topic: <b>Degradation of Ofloxacin by MicroDischarge Plasma</b>
9.15 AM-9.30 AM		Ashok Manwani Indian Pearl Culture is Design Pearl Culture Topic: <b>Indian Pearl Culture is Design Pearl Culture</b>
9.30 AM-9.45 AM		Dr Prashant Singh Department of Botany, Banaras Hindu University, Varanasi, Uttar Pradesh-221005 Topic: <b>The case study of <i>Nostoc</i> and <i>Nostoc</i>-like taxa from the tropical and sub-tropical regions</b>
9.45 AM-10.00 AM		Dr. Syamli Singh Indian Institute of Public Administration Topic: <b>Sectoral Approach for Solid Waste Management and Water Management</b>
10.00 AM-10.15 AM		Dr. Bhanu Pandey CSIR-Central Institute of Mining and Fuel Research Topic: <b>Effects of air pollution and foliar dust deposition on trees around Jharia coalfield, India</b>

10.15 AM-10.30 AM		Dr. Rakesh Verma Department of Zoology, Banaras Hindu University Topic: <b>Protective Actions of Melatonin Against BPS Induced Testicular Dysfunctions</b>
10.30 AM-10.45 AM		Dr. Vijay Tripathi Department of Molecular Cellular Engineering SHUATS, Allahabad Topic: <b>Characterization of Rhizospheric and Endophytic Bacteria from Wastewater irrigated Tomato plants</b>
10.45 AM-11.00 AM		Dr. Hema Patel, Project officer, Technical Department, National Mission for clean Ganga Topic: <b>Toxicity assessment of Ordinary Portland Cement (OPC) solidified chemical sludge generated from textile wastewater treatment plants</b>
11.00 AM- 11.15 AM		Dr. Subhasish Roy Birla Institute of Technology and Science-Pilani, K K Birla Goa Campus Topic: <b>Bio-inspired Supramolecular Soft Materials</b>
<b>11.15 AM- 11.30 AM – Tea Break</b>		
<b>Session-4</b> <b>Chairperson: Prof. Bhaskar Bhattacharya</b>		
11:30 AM-12:15 PM	Keynote talk	Prof. U. P. Singh KIT Bhubaneswar Topic: <b>Advances in Kesterite based thin film solar cells and Future Ahead</b>
12:15 PM-12:45 PM	Plenary talk	Dr. Pradeep Kumar Sharma Senior Scientist IITR, Lucknow Topic: <b>Elucidating the role of environmental endocrine disrupting chemicals in metastatic induction of hormone-dependent breast cancer cells</b>
<b>1:00 PM-2:00 PM - Lunch</b>		
<b>Session-5</b> <b>Chairperson: Prof Nishi Kumari</b>		
2:00 PM-2:30 PM	Plenary talk	Prof. Kavita Shah, Institute of Environment and Sustainable Development, Banaras Hindu University Topic: <b>Unsustainable to Sustainability: Bridging scientific gaps with traditional know-how</b>

2.30PM- 3.00 PM	Plenary talk	Prof. Radha Chaube Department Of Zoology, Institute of Science, BHU Topic: <b>Heavy Metal toxicity modulates aromatase expression in the catfish <i>Heteropneustes fossilis</i></b>
3:00 PM-3:30 PM	Pre-vaedictory Special Lecture <b>(Online)</b>	Mr. Sangeeth Kumar Parvatam Product Manager in the energy sector, exploring Nature Based Solutions to achieve zero carbon emissions, both for corporates and countries. He leads the Forests By Heartfulness initiative, helping with strategy, industry outreach, and collaboration with other NGOs.
<b>4:00 PM-5:30 PM -Valedictory Function Compering: Dr. Swarn Lata Singh</b>		
<p>4:00 pm Floral tributes to Bharat Ratna Mahamana Pt. Madan Mohan Malviya ji</p> <p>4:05 pm Welcome address by Prof Rita Singh</p> <p>4:10 pm Conference report by Dr Krishna Kumar Choudhary</p> <p>4:20 pm Declaration of Poster Presentation Award</p> <p>4:30 pm Address by Chief Guest Prof A. S. Raghubanshi</p> <p>4:45 pm Feedback of Participants</p> <p>4:55 pm Formal Vote of Thanks by Dr. Sandeep Kumar Singh Patel</p>		
<b>5:00 PM High Tea</b>		