

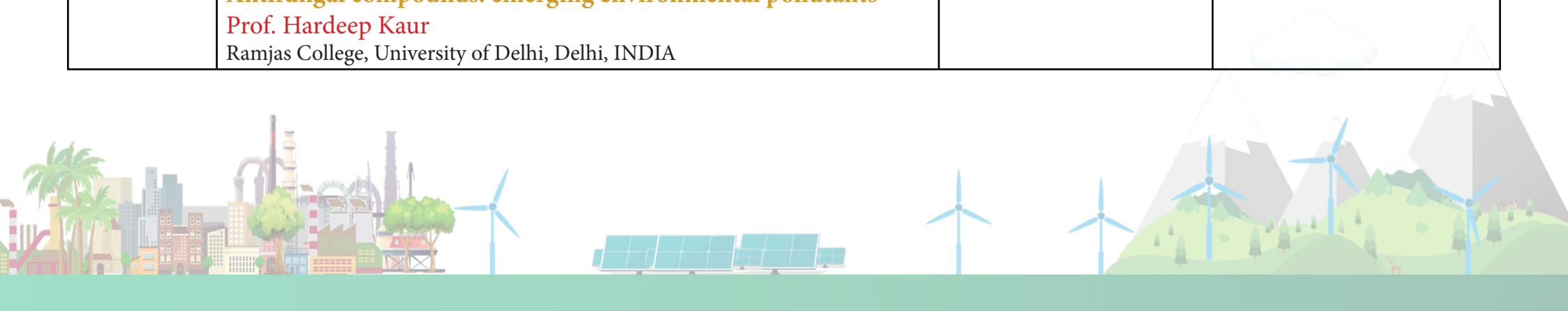


**ICMCESA-2022**  
**22 - 28 February 2022**  
Scientific Program



**Day - 1: February 22, 2022 (Tuesday)**

0800 – 0830	Welcome by <b>Mr Anil Saini</b> , Chairman, Governing Body, ANDC Introduction of International Conference by <b>Prof. Ravi Toteja</b> , Principal ANDC		
		Session Chairs	Co-Chairs
0830 – 0915	<b>Plenary Talk</b> <b>Syzygy or Sisyphus: The Future of Environmental Policy Making</b> <b>Prof. Gaytha A. Langlois</b> Prof. of Environmental Policy, Bryant University Rhode Island, USA	Sr. Prof. Mridula Gupta	Prof. Arijit Chowdhuri Prof. Seema Makhija
0915 - 1000	Inauguration by <b>Prof. Yogesh Singh</b> , Hon'ble Vice Chancellor of University of Delhi and <b>Prof. Balaram Pani</b> , Dean Colleges, University of Delhi,		
1000 - 1045	<b>Keynote Talk</b> <b>Major Global Environmental Issues with emphasis on Invasion Ecology</b> <b>Prof. R. K. Kohli</b> Vice-Chancellor Amity University Punjab, Mohali, INDIA	Prof. Rupam Kapoor	Prof. Charu Khosla Gupta Dr Rahul Dev
1045 – 1115	<b>Keynote Talk</b> <b>Novel chemicals mediate invasion success of exotic species</b> <b>Prof. Inderjit Singh</b> Deptt. of Environmental Studies. University of Delhi, Delhi, INDIA		
1115 - 1130	<b>Tea Break</b>		
1130 - 1215	<b>Keynote Talk</b> <b>Biodiversity for Everyones' life</b> <b>Prof. Dinabandhu Sahoo</b> Department of Botany, University of Delhi, Delhi, INDIA	Prof. Vishnu Bhat	Dr Anita Narang Dr Yash Mangla
1215 - 1245	<b>Invited Talk</b> <b>Tools and Rules of Ecological Entrepreneurship for Sustainable Health and Wealth</b> <b>Prof. Radhey Shyam Sharma</b> Deptt. of Environmental Science, University of Delhi, Delhi, INDIA		
1245 - 1315	<b>Invited Talk</b> <b>Low temperature operated efficient NO2 gas sensors for environmental monitoring</b> <b>Dr Anjali Sharma Kaushik</b> Deptt. of Physics, ARSD College, University of Delhi, Delhi, INDIA		
1315 – 1400	<b>LUNCH Break</b>		
1400 - 1430	<b>Invited Talk</b> <b>Anthropocene: A misplaced trust in Ecological Utopia</b> <b>Dr Himender Bharti</b> Department of Zoology and Environmental Sciences, Punjabi University, Patiala, INDIA	Prof. R. K. Negi	Dr Sweety Shrimali Mr. Abhay Pratap Singh
1430 – 1500	<b>Invited Talk</b> <b>Environmental mitigation through biological approaches</b> <b>Dr Raunak Dhanker</b> School of Engineering & Sciences, G D Goenka University, Gurugram, Haryana, INDIA		
1500 - 1530	<b>Invited Talk</b> <b>Overcoming challenges in the sustainable remediation of Hexachlorocyclohexane (HCH) dumpsite soils</b> <b>Dr Charu Dogra Rawat</b> Ramjas College, University of Delhi, Delhi, INDIA		
1530 - 1600	<b>Invited Talk</b> <b>Antifungal compounds: emerging environmental pollutants</b> <b>Prof. Hardeep Kaur</b> Ramjas College, University of Delhi, Delhi, INDIA		



1600 - 1630	<b>Invited Talk</b> The Role of the 2D materials for sustainable Growth and Future Optoelectronic Device Applications for environment <b>Dr Mukesh Kumar Thakur</b> J. Heyrovsky Institute of Physical Chemistry of the Czech Academy of Sciences, Prague, CZECH REPUBLIC	Prof. R. K. Negi	Dr Sweety Shrimali Mr. Abhay Pratap Singh
1630 - 1700	<b>Invited Talk</b> Manipulation of life processes of insect pests using botanicals: A sustainable approach of pest management <b>Prof Kamal Gupta</b> Deshbandhu college, University of Delhi, Delhi, INDIA		
1700 - 1745	<b>Keynote Talk</b> How to teach contemporary environmental issues to children? <b>Dr Paola Scavone</b> Departamento de Microbiología, Clemente Estable Biological Research Institute, Montevideo, URUGUAY	Prof. Rup Lal	Dr Anupama Shukla

### Day - 2: February 23, 2022 (Wednesday)

		Session Chairs	Co-Chairs
0930 – 1015	<b>Keynote Talk</b> Advanced Semiconductor and Catalytic Materials for Sustainable Hydrogen Generation <b>Dr Siva Karuturi</b> School of Engineering, Australian National University, Canberra, AUSTRALIA	Prof. Shashi Bhushan	Dr Sada Nand Prasad Dr Aparna Sharma
1015-1045	<b>Invited Talk</b> SARS COV 2: Invisible Threat and Impact on Environment <b>Dr Swati Sharma</b> School of Medicine, Blood Research Centre, The University of North Carolina USA		
1045 - 1115	<b>Invited Talk</b> Zero Hunger and climate mitigation: Constraints and possibilities <b>Prof. Ram Kumar</b> School of Earth, Biological and Environmental Sciences, Central University of South Bihar, Gaya, Bihar, INDIA		
1115 – 1130	<b>Tea Break</b>		
1130 – 1330	<b>Technical Session – I</b>	<b>Room A</b>	Dr Manisha Verma Dr V. Bhasker Raj
		<b>Room B</b>	Dr. Geetika Kalra Dr. Neelakshi K. Borah Dr. Siddhartha
1330 – 1400	<b>LUNCH Break</b>		
1400 – 1445	<b>Keynote Talk</b> Aquatic biofilms as “bioengineers” for newly emerging pollutants removal <b>Dr Natasa Mori</b> Department of Organisms and Ecosystems Research, National Institute of Biology in Ljubljana, SLOVENIA	Prof. Rina Chakrabarti	Prof. Charu Khosla Gupta Dr Sumit Sahni
1445 - 1515	<b>Invited Talk</b> Ecosystem Restoration – Certain key approaches, principles and interventions <b>Dr Nageswara Rao Amanchi</b> University College of Science, Osmania University, Hyderabad, Telangana, INDIA		
1515 – 1530	<b>Tea Break</b>		
1530 - 1730	<b>Technical Session – II</b>	<b>Room A</b>	Dr Anupama Shukla Mr. Abhay Pratap Singh
		<b>Room B</b>	Prof. Gagan Dhawan Dr. Rahul Dev



## Day - 3: February 24, 2022 (Thursday)

		Session Chairs	Co-Chairs
0930 – 1015	<b>Keynote Talk</b> <b>Environmental Indicators: Thoughts on Contributing to Sustainability and Equity in the Great Lakes Region and Beyond</b> <b>Dr Michael W. Murray</b> Department of Biological Sciences, Augusta University Georgia, USA	Prof. Indranil Dasgupta	Prof. Pankaj Khanna Dr Harita Ahuja
1015-1045	<b>Invited Talk</b> <b>Study of Potential Molecular Drug Targets against Mycobacterium tuberculosis using Comparative Genomics</b> <b>Helianthous Verma</b> Department of Zoology, Ramjas College, University of Delhi, Delhi, INDIA		
1045 - 1115	<b>Invited Talk</b> <b>Criteria for Identifying Coastal &amp; Marine Eco Sensitive Areas: A Revisit</b> <b>Dr B. Anjan Prusty</b> Department of Natural Resources Management & Geo-informatics, Berhampur University, Odisha, INDIA		
1115 – 1130	<b>Tea Break</b>		
1130 – 1330	<b>Technical Session – III</b>	<b>Room A</b>	Prof. Urmi Bajpai Dr. Aparna Sharma
		<b>Room B</b>	Dr. Geetu Gambhir Dr. Sanjay Kumar
1330 – 1400	<b>LUNCH Break</b>		
1400 – 1445	<b>Keynote Talk</b> <b>Engagement of citizens in co-designing citizen science studies in environmental epidemiology: Opportunities and challenges</b> <b>Dr David Kocman</b> Department of Environmental Sciences, Jožef Stefan Institute (JSI), Ljubljana, SLOVENIA	Prof. Sukhmahendra Singh	Dr Geetika Kalra Dr Manoj Kumar Singh
1445 - 1515	<b>Invited Talk</b> <b>Mangrove plantation activities in Kachchh, Gujarat</b> <b>Dr Rachna Chandra</b> Department of Environmental Sciences - Forestry, Faculty of Agriculture, Sri Sri University, Cuttack, Odisha, INDIA		
1515 – 1530	<b>Tea</b>		
1530 - 1730	<b>Technical Session – IV</b>		Prof. Sunita Hooda Dr Pragati Malik

## Day - 4: February 25, 2022 (Friday)

		Session Chairs	Co-Chairs
0930 – 1015	<b>Keynote Talk</b> <b>Hot springs located Atop the Himalayan Ranges at Manikaran and Kheer Ganga in Himachal Pradesh, India : Potential Sources of Microbial Diversity and Thermostable Enzymes</b> <b>Prof. Rup Lal</b> NASI Senior Scientist Platinum Jubilee Fellow, The Energy and Resources Institute (TERI), INDIA	Prof. Sanjeev Singh	Prof. Gagan Dhawan Dr Vineet Kumar Singh
1015 – 1045	<b>Invited Talk</b> <b>In2Se3 thin films based high performance self-powered UV photodetector for environmental applications</b> <b>Dr. Kajal Jindal</b> Department of Physics, Kirorimal College, University of Delhi, Delhi, INDIA		



1045 - 1115	<b>Keynote Talk</b> <b>Snow leopard: a top predator, mountain ambassador, and icon of trans-boundary conservation</b> <b>Dr Kaustubh Sharma</b> Senior Ecologist, Snow Leopard Trust, Seattle, USA	Prof. Sanjeev Singh	Prof. Gagan Dhawan Dr Vineet Kumar Singh
1115 - 1130	<b>Tea Break</b>		
1130 - 1330	<b>Technical Session - V</b> Dr. Charu Khosla Gupta Dr Sidharath		
1330 - 1400	<b>LUNCH Break</b>		
1400 - 1445	<b>Keynote Talk</b> <b>Identification and monitoring of ciliated key protists in aquatic environments in the light of a sustainable environmental approach</b> <b>Dr Bettina Sonntag</b> Research Department for Limnology, Mondsee, University of Innsbruck, AUSTRIA	Prof. Alan Warren	Dr Ravneet Kaur Dr Neelakshi Borah
1445 - 1515	<b>Invited Talk</b> <b>Understanding 'Forests' Beyond Dictionary Meaning- The Disconnect Between The Science And Law</b> <b>Mr. Debadityo Sinha</b> Founder & Trustee, Vindhyan Ecology and Natural History Foundation and TEDx speaker, INDIA		
1515 - 1530	<b>Tea</b>		
1530 - 1730	<b>Technical Session - VI</b>	<b>Room A</b>	Dr Geetu Gambhir Dr Kavita Mittal
		<b>Room B</b>	Dr. Sada Nand Dr. Narayan Singh
<b>Day - 5: February 26, 2022 (Saturday)</b>			
		<b>Session Chairs</b>	<b>Co-Chairs</b>
0930 - 1015	<b>Keynote Talk</b> <b>Land Management and Carbon Sequestration: Simple Solution to Somewhat Big Problems</b> <b>Dr Rajesh Jalota</b> Department of Environment Studies and Resource Management, Townsville, Queensland, AUSTRALIA	Prof Sukanya Lal	Prof. Sunita Hooda Dr Sandeep Kumar Goel
1015 - 1045	<b>Invited Talk</b> <b>Bioinformatics and Biopesticides: Achieving Sustainable Goals in Agriculture</b> <b>Dr Aparajita Mohanty</b> Gargi College, University of Delhi, Delhi, INDIA		
1045 - 1115	<b>Invited Talk</b> <b>Incubating Ideas to Build Sustainable Environmental Technologies</b> <b>Dr Mrityunjay Kar Suar</b> KIIT University		
1115 - 1130	<b>Tea Break</b>		
1130 - 1330	<b>Technical Session - VII</b> Dr Pooja Bhagat Dr Sanjeeta Rani		
1330 - 1400	<b>LUNCH Break</b>		
1400 - 1445	<b>Keynote Talk</b> <b>Using biodiversity models to support the nature-positive transition</b> <b>Prof. Andy Purvis</b> The Natural History Museum, London, UNITED KINGDOM	Prof. Prem Lal Uniyal	Prof. Sarita Kumar Dr Anita Thakur



1445 - 1515	<b>Invited Talk</b> <b>The role of genomics in resolving classification anomalies of bacterial genera</b> <b>Dr Utkarsh Sood</b> The Energy and Resources Institute (TERI), Delhi, INDIA	Prof. Prem Lal Uniyal	Prof. Sarita Kumar Dr Anita Thakur
1515 - 1530	<b>Tea</b>		
1530 - 1730	<b>Technical Session - VIII</b>	<b>Room A</b>	Sunita Jetley Dr. Harita Ahuja
<b>Day - 6, February 27, 2022 (Sunday) Ecoville</b>			
0930 - 0945	Welcome Address by <b>Prof. Ravi Toteja</b> , Principal, Acharya Narendra Dev College Chief Guest- <b>Dr C.S. Verma</b> , Principal, Kautilya Govt. Sarvodya Bal Vidhyalaya		
		<b>Session Chairs</b>	<b>Co-Chairs</b>
0945 - 1000	Address and Inauguration of V-Lab by <b>Dr Garima Gupta</b> Scientist F, Department of Biotechnology, Govt. of India, INDIA		
1000 - 1100	Introduction to Virtual Labs <b>Mr Ayush Mishra and Mr. Vaibhav Thapliyal</b> Acharya Narendra Dev College, University of Delhi	Dr Sanjeeta Rani Dr Anita Narang Dr Sharanjit Kaur Dr Neeti Misra	Dr Sumit Sahni Dr Vineet Kumar Singh
1100 - 1115	<b>Tea Break</b>		
1115 - 1145	<b>Invited Talk</b> <b>Tiny Things, Mighty Challenges</b> <b>Dr Shailly Anand</b> Deen Dayal Upadhyaya College, University of Delhi, Delhi, INDIA	Prof. Atul Johri	Dr Pooja Bhagat Dr Archana Pandey Dr Rashmi Sharma
1145 - 1215	<b>Invited Talk</b> <b>Ciliates in research and class room teaching</b> <b>Prof. Renu Gupta</b> Maitreyi College, University of Delhi, Delhi, INDIA		
1215 - 1300	<b>Quiz for School students</b>	Dr Rashmi Sharma	Dr Rahul Dev Dr Gurudutt Rao Ambedkar
1300 - 1345	<b>LUNCH Break</b>		
1345 - 1430	<b>The Dying Habit of Reading</b> <b>Ms Sangeeta Relan</b> Acharya Narendra Dev College, University of Delhi, Delhi, INDIA	Dr Anupama Shukla Dr Sunita Jetly Dr Mamta Bhatia	Dr Anita Thakur Dr Yash Mangla
1430 - 1515	<b>Invited Talk</b> <b>Health care sustainability</b> <b>Dr Binita Dutta</b> Senior Business Analyst, Hyloris Pharmaceuticals, BELGIUM		
1515 - 1530	<b>Tea Break</b>		
1530 - 1600	<b>Technical Session IX: Paper and Video presentations by school students</b>	Prof. Seema Gupta	Dr Aparna Sharma Dr Sweety Shrimali
1600 - 1645	<b>Career Counselling Session</b> <b>Dr Gauri Dhingra</b> Kirorimal College, University of Delhi <b>Dr Roshan Kumar</b> Magadh University, Bihar		
1645 - 1700	Vote of Thanks by <b>Prof. Seema Makhija</b>		



Day - 7: February 28, 2022 (Monday)

		Session Chairs	Co-Chairs
0930 – 1015	<b>Keynote Talk</b> <b>Environmental Conservation: Contemporary Realities</b> <b>Shri. Kunal Satyarthi</b> Joint Secretary (Advisor), National Disaster Management Authority, Ministry of Home Affairs, Govt. of India, <b>INDIA</b> .	Dr Renu Bhagat Kumar	Dr Geetu Gambhir Dr Sidhartha
1015 - 1100	<b>Keynote Talk</b> <b>Nourish Ecosystems, Nurture Biodiversity, Enable Food and Enhance Resilience – Integrating Nature’s potential</b> <b>Dr Gayatri Kanungo</b> Senior Environmentalist, World Bank, USA		
1100 - 1145	<b>Keynote Talk</b> <b>Natural biological Solutions for remediating urban pollution/ or air pollution and health risk management</b> <b>Prof. Chirashree Ghosh</b> Deptt. of Environmental Studies, University of Delhi, Delhi, <b>INDIA</b>		
1145 – 1200	<b>Tea Break</b>		
1200 – 1230	<b>Invited Talk</b> <b>Biodiversity Parks of Delhi as models for Environmental Sustainability and Resilience</b> <b>Dr Faiyaz Khudsar</b> Centre for Environment Management of Degraded Ecosystems (CEMDE), University of Delhi, Delhi, <b>INDIA</b>	Prof. Rajesh Tandon	Mr. Pawan Kumar
1230 - 1300	<b>Invited Talk</b> <b>Phylogenetic Relationships and Potential Functional Attributes of the Genus Parapedobacter: An Isolate from Hexachlorocyclohexane Dumpsite</b> <b>Dr Roshan Kumar</b> Magadh University, Bodh Gaya, Bihar, <b>INDIA</b>		
1300 - 1330	<b>Invited Talk</b> <b>Atmospheric electric field as an index for air pollution</b> <b>Prof. Guwhar Bashir Vakil</b> Director, Institute of Technology, Zakura Campus, University of Kashmir, <b>INDIA</b>		
1330 – 1400	<b>LUNCH Break</b>		
1400 - 1430	<b>Invited Talk</b> <b>Microbial intervention for advanced Biofuel production</b> <b>Dr Sanjukta Subudhi</b> DBT-TERI Center of Excellence in Advanced biofuels & Bio-commodities, The Energy and Resources Institute (TERI), Delhi, <b>INDIA</b>	Prof. Suman Lakhanpal	Dr Manisha Verma Dr Jitender Goel
1430 – 1500	<b>Invited Talk</b> <b>EIA As a Tool of Environmental Protection</b> <b>Ms. Parul Gupta</b> Independent Law Practitioner at NGT and legal adviser with Vindhyan Ecology and Natural History Foundation		
1500 – 1600	<b>Panel Discussion on “Igniting young minds for sustainable approaches to protect the environment”</b> <b>Prof. Ashutosh Bhardwaj, Prof. Lakshmi Devi, Prof. Rita Singh, Prof. Payal Mago, Dr Vipin Gupta</b> Closing ceremony with prize distribution		
1600 – 1630	<b>Vote of thanks</b> <b>Dr Rashmi Sharma</b>		

International E-Conference on  
**Mitigating Contemporary Environmental  
 issues by Sustainable Approaches**  
**[ICMCESA – 2022]**





# ACHARYA NARENDRA DEV COLLEGE

University of Delhi

NAAC Grade 'A' | NIRF Ranking 2021 – #20 | DBT STAR Status College  
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