

# 1st South Asian Conference UNFOLDING EMERGING ISSUES IN THE CONTEXT OF CHANGING CLIMATIC SCENARIO



**25-26 NOVEMBER**

## **SOUTH ASIAN CONFERENCE ON “UNFOLDING EMERGING ISSUES IN THE CONTEXT OF CHANGING CLIMATIC SCENARIO”**

*A ground-breaking conference designed to address the crucial environmental issues that South Asian countries are facing as a result of climate change. The eminent Academicians, researchers, policymakers, scientists, and activists from across the region will gather at the conference to discuss the complex interactions between climate change and its multiple effects on a range of sectors, including agriculture, water resources, public health, socioeconomic dynamics, gender inequities, renewable energy, resilient cities, migration and displacement, environmental education for the future, and food security.*

### **Conference Theme**

- South Asian Commons.
- Sustainable Development Goals.
- Resilient Cities and Urban ecosystem.
- Climate Change (adaptation/mitigation/ renewable energy, climate policy).
- South Asia Cooperation for Climate Action, Food, Security, and Education.
- Climate displacement, migration, human security, and disability inclusion.



**CLIMATE CHANGE  
PROGRAM  
2023  
South Asian  
CONFERENCE**

**Dhaka, November 25-26**



# South Asian Climate Conference 2023

Venue: Social Science Faculty, Dhaka University

Date: 25-26 November 2023

## Program Schedule

Time	Session	Host	Description
<b>Day 1: Saturday 25 November 2023</b>			
9:00 - 9:30	Registration	Center for People and Environ, OXFAM Bangladesh, BARCIK, Arranayk Foundation, CAPS, Daffodil University, Global Forum for Sustainable Rural Development (GFRSD), Global Center for Climate Change & Environment	Registration of participants  <b>Responsible:</b>  Mizanur Rahaman Rakib Maqbula Monir Mahi
9:30-11:30	Opening session	Center for People and Environ, OXFAM Bangladesh, BARCIK, Arranayk Foundation, CAPS, Daffodil University, Global Forum for Sustainable Rural Development (GFRSD), Global Center for Climate Change & Environment	<p><b>Opening Speech</b> Muhammad Abdur Rahaman, Director, Center for People and Environ.</p> <p><b>Conference Speaker</b> Dr. M. Monirul Qader Mirza, Adjunct Professor and Graduate Faculty Member, Department of Physical and Environmental Sciences, University of Toronto Scarborough</p> <p><b>Discussant</b> Masud Khan, Head of Programs, Arannayk Foundation Mahmuda Sultana, Program Director, OXFAM in Bangladesh ABM Touhidul Alam, Director, Agro-ecology &amp; Food Security, BARCIK Professor Dr. Kamruzzaman Mazumder, Chairman, Center for Atmospheric Pollution Studies (CAPS) Mohon Kumar Mondal, Executive Director, LEDARS Dr. Jayanta Choudhury, President, Global Forum for Sustainable Rural Development (GFRSD)</p> <p><b>Chair</b> Dr. M. Shahidul Islam, Chairman, Department of Geography and Environment, University of Dhaka</p>
11:00-11:30			<b>Tea Break</b>
			<b>Keynote speaker</b>

<p><b>11:30-1:00</b></p>	<p><b>Plenary 1: Coastal Resilience</b></p>	<p><b>OXFAM Bangladesh</b></p>	<p><b>Empowering the Waves: Feminist Climate Movement Building Through Community Based Ecosystem Management in Coastal Bangladesh.</b>  <b>Dabaraj Dey</b>, Engineering and Regional Planning Specialist, Climate Justice and Natural Resource Rights, Oxfam in Bangladesh</p> <p><b>P1.1.</b> Assessing Climate-Induced Migration: Factors and Potential Migration in Coastal Part of Bangladesh.  Mizanur Rahman, Research Associate, Center for People &amp; Environ (CPE)</p> <p><b>P1.2.</b> Assessment of Community Stewardship over Ecosystem Services Within Climate Nexus: A Pathway Towards Locally-led Adaptation in Nijhum Dwip, Bangladesh.  Mehedi Hasan, Oxfam in Bangladesh</p> <p><b>P1.3.</b> Establishment of Livelihood Vulnerability Index Based on Cyclone Amphan: A Case Study on Shatkhira District, Bangladesh.  Tasnim Zarin Meem. Department of Water Resource Development, Bangladesh University of Engineering and Technology</p> <p><b>P1.4.</b> Exploring Tropical Cyclone Vulnerability in Bangladesh: A Climate Change Perspective.  Ummul Momanin Coalee, Department of Geography &amp; Environment, Jahangirnagar University</p> <p><b>P1.5.</b> Ecosystem-Based Solutions for Coastal Resilience: An Investigation in Coastal Regions of Bangladesh.  Anamul Kabir, Development Studies Discipline, Social Science School, Khulna University</p> <p><b>P1.6.</b> Gender-based Vulnerabilities at the Cyclone Shelters in Coastal Belt of Bangladesh; a Study in Hatiya Upazila.  Mahbubur Rashid Ories</p> <p><b><u>Discussant</u></b>  <b>Professor Sharmindi Nilormee</b>, Department of Economics, Jahangirnagar University</p> <p><b>Dr. Papiya Dutta</b>, Associate Professor and Head, Department of Rural Development, University of Science and Technology, Meghalaya. India</p> <p><b><u>Chair</u></b>  <b>Dr. Mohammad Emran Hasan</b>, Head- Climate Justice and Natural Resource Rights, Oxfam in Bangladesh</p>
<p><b>1:00-1:45</b></p>	<p><b>Lunch</b></p>		
<p><b>1:45-2:15</b></p>			<p><b>PP1.</b> A Comparative Study of Tannery-Induced Environmental Impacts on Dholeswari River.</p>



	<p><b>Poster presentation</b></p>		<p>Shaberu Rahman Shatu, GIS Assistant, BETS Consulting Services Limited</p> <p><b>PP2.</b> Assessment of Soil Pollution Due to Electronic Waste (E-waste) and its Sustainable Management System. Sadman Shihab, Institute of Information in Technology, Jahangirnagar University</p> <p><b>PP3.</b> Climate Change and Sustainable Health Realities in the Context of Rivers - An Overview and GIS-based Work in the South Asian Region. Mozakkir Azad, Department of Environmental Science and Engineering, Jatiya Kabi Kazi Nazrul Islam University</p> <p><b>PP4.</b> Microplastics and Heavy Metals Contamination in Freshwater Fish Species in the Southwestern Region of Bangladesh and Related Human Health Implications. Mst. Shamima Akter, Department of Environmental Science and Technology, Jashore University of Science and Technology</p> <p><b>PP5.</b> Project Folon Reflecting the Attainment of the Sustainable Development Goals. Rufaida Shafiq Aaneela, Consultant, Give Bangladesh Foundation</p> <p><b>PP6.</b> The Power of 'Pen' Revisited Estimating the amount and the students perceptions towards Academic Plastic Waste Md. Hasan Kuraishi, B.S.S.(Hons) in Sociology, Hajee Mohammad Danesh Science and Technology University, Dinajpur, Bangladesh</p>
<p>2:15-3:30</p>	<p><b>Plenary 2: Local-lead Adaptation (LLA)</b></p>	<p><b>Center For People and Environ</b></p>	<p><b><u>Keynote speaker</u></b> <b>Priority of Climate Change and Local Led Adaptation in Rural Asia</b> <b>Dr. Jayanta Choudhury</b>, President, Global Forum for Sustainable Rural Development (GFRSD)</p> <p><b>P2.1.</b> Adaptation of Smart Farming Techniques and Effects of Crop Management a Descriptive Study of Farmer's Perspective. Katherasala Srinivas, Senior Research Fellow, Department of Social Work, Osmania University, Hyderabad, Telangana, India</p> <p><b>P2.2.</b> Assessing The Impact of Changing Rainfall Patterns on Flood Risks and Agriculture Production Resilience in the North-Central Region of Bangladesh: A Historical Analysis. Mahin Al Mamun, Graduate Research Student, Department of Geography and Environmental Studies, University of Chittagong</p> <p><b>P2.3.</b> Floating Grief: A Study on the Impact of Transboundary River Water Pollution on the Adjacent Community.</p>

			<p>Habiba Jahan Bithi, Department of Sociology, Hajee Mohammad Danesh Science and Technology University</p> <p><b>P2.4.</b> Impact of Climate Change on Some Select Components of Physical and Man-Made Environment of Sivasagar District, Assam, India A Geospatial technology-based Approach. Sanjay Das, Associate Professor, Department of Geography, Sibsagar Girls' College, Assam, India</p> <p><b>P2.5.</b> Oxide-Based Thermoelectric Materials for Power Generation. K. Park, Faculty of Nanotechnology and Advanced Materials Engineering, Sejong University, Republic of Korea</p> <p><b>P2.6.</b> Contrasting Responses of Fluorescence Dissolved Organic Matter (FDOM) to the Salinity Gradient Due to Upcoming Global Warming. Dr. Mohammad Mohinuzzaman, Associate Professor, Department of Environmental Science and Disaster Management, Noakhali Science and Technology University</p> <p><b>P2.7.</b> Unseen Scars of Disaster: A Comprehensive Analysis of Gender Inequities in Disaster Management Policies of Bangladesh. Mst.Tajnin Nahar Tonni, Department of Sociology, Hajee Mohammad Danesh Science and Technology University</p> <p><b><u>Discussant</u></b> <b>Fazle Rabbi Sadeque Ahmed</b>, Director, Climate Change Program, Palli Karma-Sahayak Foundation</p> <p><b>Professor Dr. MD. Shamsuzzoha</b>, Department of Emergency Management, Faculty of Environmental Science and Disaster Management, Patuakhali Science and Technology University.</p> <p><b><u>Chair</u></b> <b>Abu Sadat Moniruzzaman Khan</b>, Programme Head, Climate Change Programme, BRAC</p>
3:30-5:00	<p><b>Plenary 3: Nature Based Solution</b></p>	<p><b>LEDARS</b></p>	<p><b><u>Keynote speaker</u></b> <b>Nature based solution: Challenges and Opportunities in Coastal Areas of Bangladesh.</b> <b>Koushik Roy</b>, LEDARS</p> <p><b>P3.1.</b> Green Technologies Intervention in Sugarcane in the Context of Nepal. Abhisek Shrestha, Agriculture and Forestry University, Bradibas, Nepal</p> <p><b>P3.2.</b> Multi-Hazard Vulnerability Assessment and its Impacts on Kishoreganj District.</p>



			<p>Asma Akther Popy, Research Assistant, Center for People and Environ (CPE)</p> <p><b>P3.3.</b> The Nexus of NDVI and UHI: A Comprehensive Analysis from Bangladesh. Abdulla Al Imran, Department of Geography and Environment, Jahangirnagar University</p> <p><b>P3.4.</b> Variation in Drought Resilience and Climate Sensitivity of Zanthoxylum Rhetsa at three Sites Along Environmental and Disturbance Gradient. Kanta Bhattacharjee, Department of Forestry and Environmental Science, Shahjalal University of Science and Technology, Sylhet</p> <p><b>P3.5.</b> Enhancing River Ecosystem through Nature-based Solutions: A Case Study on Sucker Fish in the Buriganga River Khaled MD. Mehzabin Alam Prottoy, Research Assistant, Center for People and Environ (CPE)</p> <p><b>P3.6.</b> Assessment of Noise Pollution and its Impact on Human Health of Jatiya Kabi Kazi Nazrul Islam Univerisity Area- a GIS base Overview. Mozakkir Azad, Department of Environmental Science and Engineering, Jatiya Kabi Kazi Nazrul Islam University</p> <p><b>Discussant</b> <b>Dr. Mohinder Kumar Slariya</b>, Associate Professor (Sociology), Department of Higher Education, Government of Himachal Pradesh, India</p> <p><b>Dr. Saptashi Mitra</b>, Department of Geography and Disaster Management, University of Tripura, India</p> <p><b>Chair</b> <b>Dr. Hasib Irfanullah</b>, NbS Expert</p>
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**Day 2: Sunday 26 November 2023**

<p><b>9:00-10:30</b></p>	<p><b>Plenary 4: Climate Migration, social protection, and human security</b></p>	<p><b>Center For People and Environ</b></p>	<p><b>Keynote speaker</b> <b>Rehabilitation Initiatives for The Climate Induced Displaced Persons in Bangladesh: A Critical Evaluation on some NGO Interventions in Chittagong.</b> <b>Professor Dr. Amir Mohammad Nasrullah</b>, Department of Public Administration, Chittagong University</p> <p><b>P4.1.</b> Disability Inclusion in Climate Resilient Infrastructure: A Cross-Sectional Study in Four Coastal Sub-Districts of Bangladesh. Zereen Saba, Research Officer, Center for People &amp; Environ (CPE)</p>
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10:30-11:00	<b>Tea break</b>		
11:00-1:00	<p><b>Plenary 5: Resilient City</b></p>	<p><b>BARCIK</b></p>	<p><b><u>Keynote speaker</u></b> <b>Climate Crisis and Urban Resilience.</b> <b>MD. Jahangir Alam</b>, Coordinator, BARCIK.</p> <p><b>P5.1.</b> Assessing Urban Expansion and Land Use/Land Cover Changes for Sustainable Development in Gazipur City Corporation Area. Bustanul Zannat, Undergraduate Researcher, Department of Geography and Environment, Jahangirnagar University</p> <p><b>P5.2.</b> Correlation between Land Surface Temperature (LST) and Major Air Pollutants (MAP) in Greater Dhaka Region: A Geospatial Approach.</p>



			<p>S M Sium, Department of Geography and Environment, University of Dhaka</p> <p><b>P5.3.</b> Geospatial Modeling for Air Quality Mapping of Dhaka City. Ehsan Reza, Research Consultant, Center for Environmental Geographic Information Services</p> <p><b>P5.4.</b> Plastic Recycling and Political Embodied Ness. Khadiza Tul Kubra Shapu,</p> <p><b>P5.5.</b> Time Series Assessment of Air Pollution in the Dhaka North City Corporation based on Concentration of PM2.5 using Linear Regression Model. Sumaiya Zakir, Department of Geography and Environment, Jahangirnagar University</p> <p><b>P5.6.</b> Riverbank Erosion Impact Assessment of Rural Households with Morphohydrological Analysis and Main Adaptation Barriers in Northern Part of Bangladesh. Umma Salma, Department: Forestry and Environmental Science, Shahjalal University of Science and Technology (SUST)</p> <p><b><u>Discussant</u></b>  <b>Dr. Lalin Chowdhary</b>, Public Health Expert.  <b>Professor Dr. Adil Mohammad Khan</b>, Department of Urban &amp; Regional Planning, Jahangirnagar University.  <b>Dr. Debashish Kundu</b>, Associate Professor, Department of Social Science, University of Dhaka.  <b>Dr. Neelopal Adri</b>, Assistant Professor, Urban and Regional Planning, Bangladesh University of Engineering and Technology.  <b>Dr. Soma Dey</b>, Associate Professor, Department of Women and Gender studies, University of Dhaka.  <b>Dr. Md. Touhidul Islam</b>, Associate Professor, Department of Peace and Conflict Studies, University of Dhaka.  <b>Bushra Afreen</b>, Heat Officer, Inclusion and Environment, Dhaka North City Corporation (DNCC).  <b>Rebeka Sun-Yat</b>, Executive Director, Coalition for the Urban Poor.</p> <p><b><u>Chair</u></b>  <b>Dr. Golam Rabbani</b>, Head, Climate Bridge Fund, BRAC</p>
1:00-2:00	<b>Lunch</b>		
2:00-3:30	<b>Plenary 6: Environmental Conservation</b>	<b>Arannayk Foundation</b>	<p><b><u>Keynote Speaker</u></b>  <b>Forest Landscape Restoration Planning and Piloting in Chittagong Hill Tracts: Arannayk Foundation's Experience and Way Forward.</b>  <b>Dr. Mohd. Abdul Quddus</b>, Senior Adviser, Arannayk Foundation</p>



			<p><b>P6.1.</b> A Review on the Status of Fish Diversity and Its Degradation in Cholon Beel. Farjana Khatun, Institute of Remote Sensing and GIS, Jahangirnagar University</p> <p><b>P6.2.</b> Environmental Education for Nature-based Solutions. Anusree Ghosh, Senior Officer, Climate Change Programme, BRAC</p> <p><b>P6.3.</b> Soil Carbon Stock and CO2 mitigation potential and impact on environment in the Ratargul Swamp Forest of Sylhet, Bangladesh. Umme Hani Asha, Research Intern, Center for People &amp; Environ (CPE)</p> <p><b>P6.4.</b> Nepal's Mountain Tourism: A Beacon of Climate Resilience for South Asia. Shanti Tamang, LLM in International Law, South Asian University</p> <p><b>P6.5.</b> Transition from Linear Economy to Circular Economy: A Prospect of Minimizing Economic and Environmental Cost. Ikhtiarul Arefeen</p> <p><b>P6.6.</b> Climate Justice in Nepal: Exploring Equity and Sustainability in a Developing Nation Prakriti Adhikari</p> <p><b>Discussant</b> <b>Professor Dr. Om Katel</b>, Department of Environment &amp; Climate Studies, College of Natural Resources, Bhutan</p> <p><b>Dr. Mohammad Mohinuzzaman</b>, Associate Professor, Department of Environmental Science and Disaster Management, Noakhali Science and Technology University</p> <p><b>Chair:</b> <b>Prof. A.Z.M Manzoor Rashid</b> Chairman, Arannayk Foundation</p>
3:30-3:45	<b>Tea Break</b>		
3:45-5:00	<b>Closing Session</b>		<p><b>Dhaka Declaration</b> <b>Muhammad Abdur Rahaman</b>, Director, Center for People and Environ (CPE)</p> <p><b>Discussant</b> <b>Dr M. Monirul Qader Mirza</b>, Adjunct Professor and Graduate Faculty Member, Department of Physical and Environmental Sciences, University of Toronto Scarborough</p>

			<p><b>Dr. Mohammad Emran Hasan</b>, Head- Climate justice and natural resource rights, Oxfam in Bangladesh.</p> <p><b>Dr. Poornika Kumari Seelagama</b>, Senior Lecturer, Department of Sociology, University of Peradeniya, Sri Lanka</p> <p><b>ABM Touhidul Alam</b>, Director, Agro-ecology &amp; Food Security, BARCIK</p> <p><b>Professor Dr. Kamruzzaman Mazumder</b>, Chairman, Center for Atmospheric Pollution Studies</p> <p><b>Masud Khan</b>, Head of Programs, Arannayk Foundation</p> <p><b>Dr. Jayanta Choudhury</b>, President, Global Forum for Sustainable Rural Development (GFRSD)</p>
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**Chair**

**Dr. Qazi Kholiquzzaman Ahmad**, Chairman, Dhaka School of Economics (DScE)

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CLIMATE CHANGE  
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Dates: November 28-30