OHOW2023 PROGRAM OVERVIEW (as of Dec. 6, 2023)

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Tuesday 5 December 2023

18:00-20:00	Welcome Ice breaker at Intercontinental Hotel (hosted by UNDP, Bangladesh)

Presentation time: Keynote speaker:15 mins, Special lecture:10 mins, Ordinary speaker: 8 mins presentation + 2 mins Q&A

Wednesday, 6 December 2023

Time	Content
08:00-08:30	Registration in front of Nabab Nawab Ali Chowdhury Senate Bhaban (Venue), Dhaka University
08:30-09:00	Opening Ceremony at Senate Hall, Nabab Nawab Ali Chowdhury Senate Bhaban (Venue), Dhaka University Moderator: Shamima Sifa & Tanzim Hayat, Disaster Science &Climate Resilience, University of Dhaka Welcome Speech by Prof. Dr. Md. Zillur Rahman, Chairman, Disaster Science and Climate Resilience, University of Dhaka Speech by Prof. Wataru Takeuchi, IIS, University of Tokyo, Japan Speech by Prof. Dr. Md. Kawser Ahmed, Member (Secretary), General Economics Division (GED) Speech by Prof. Dr. A.S.M. Maksud Kamal, Vice-Chancellor, University of Dhaka, Bangladesh
09:00-09:40	Keynote lectures: Moderator: Dr. Khin Myat Kyaw, IIS, The University of Tokyo, Japan Prof. Masahiro Hashizume, The University of Tokyo, Japan 　[83495] Short-term associations of diarrheal diseases with temperature and precipitation: a multi-country study in Asia and Africa Dr. Syed Emdadul Haque, Country Representative, UChicago Research Bangladesh 　Water and air pollution and it's effects on health
09:40-10:40	Special Session: 　Climate-induced Shock Responsive Disaster Resilience Mapping for Adaptive Social Protection Programming of the at-Risk Population in the Sylhet Division of Bangladesh 　Moderator: TBD [83462] Md. Jakir Hossain [83616] Mahfuz Kabir [83510] S M Kamrul Hassan
10:40-11:30	Group photo / Coffee Break
11:30-13:00	Session 1: Infrastructure Management and Sustainable Built Environment Session chair: Prof. Kazuyuki Takada (TDU, Japan) · Session 2: International Public Health Research in Asia Session chair: Prof. Masahiro Hashizume (UTokyo, Japan)

	1.[83725] Tsukasa Mizutani Challenge for Developing "Four-Dimensional Transparentization" Technology of Road Infrastructures Using Ground Penetrating Radar 2.[82218] Mushfika Ansary REDEVEOPMENT OF THE MOHAKHALI BUS TERMINAL 3.[82288] Yan Guanyu Evaluating Urban Expansion in Ulaanbaatar, Mongolia: A Study Based on SDG 11.3.1 Indicators, 1990-2020 4.[82954] Takahiro Yamaguchi A Novel Approach for Detecting Road Cracks Interpreting Background Images using Convolutional Neural Networks and a Self-organizing Map 5.[83117] Junya Maruyama An Optimization Method for Indoor Trajectory Estimation from Spatially Sparse and Noisy Beacon Data 6.[83504] Ibrahim Rashiq Shams ACTION RESEARCH ON MITIGATION OF SALT DEPOSIT ON CLAY FIRED BRICKS OF BANGLADESH FOR ELUCIDATING A SUSTAINABLE SOLUTION 7.[83490] Khin Myat Kyaw Instability Mapping of Dhaka-Kasiani-Gopalganj Railway Line in Bangladesh with InSAR Time-series Analysis 8.[83571] Darimi Ameen Barshat A Comparison Between the Perception of Dhaka South and Dhaka North Residents on Urban Green Space and Its Impact on Health 9.[83874] Sreyoshi Sikder Delineation of landfill sites in Dhaka city and its impact on environment using remote sensing techniques	1. Special Lecture [83114] Chayan Munshi COVID-19 outbreak and its psychopathological effect: a public health perspective. 2. Special Lecture [83395] Hasinur Rahaman Khan Machine Learning Approaches Reveal That the Number of Tests Doesn't Matter to the Prediction of Global Confirmed COVID-19 Cases 3.[82064] P C P. C. Thapliyal Post Flooding Diseases: Issues, Causes and Precautions 4.[83446] Turna Tahsin Rahman Preparedness of public health facilities for geriatric care in Bangladesh 5.[83078] Tomoaki Ito Remote sensing of PM2.5 exposure and change in air pollution-related awareness measured by Google Trends in Asian megacities 6.[83574] Srinwanti Bandyopadhyay A study on erratic mental status in a young human population in respect to mate choice 7.[83601] Mihieka Bose A comparative account on human immune response against alpha, delta and omicron strains of SARS-CoV-2 8.[83591] Tithi Paul Discussing recent paradigms of technical advancements in healthcare
13:00-14:00	Lunch (all participants) & Summit MTG (invited only)	
14:00-15:30	Session 3: Urban Safety & Disaster Mitigation Session chairs:	Session 4: Climate Change and Green Recovery Session chairs:

Prof. Kimiro Meguro (UTokyo, Japan) Prof. Dr. Md. Zillur Rahman (Dhaka Univ., Bangladesh) 1. Special Lecture [81515] Prof. Ajay P Chourasia Plastic Cement Bags as Retrofit Material for Masonry Buildings 2. Special Lecture [83475] Prof. Osamu Murao A Study on Vertical Urban Developments of Tokyo 3.[83034] Mahfuja Khandaker Earthquake-Induced Landslide Hazard Assessment in Chittagong Metropolitan Area. 4.[83149] Md. Mahfuzar Rahman Flood Inundation Mapping of Sylhet City and Surrounding Floodplain Area using 1D–2D Coupled Hydraulic Modelling: A Case Study of a Recent Flood Event 2022 5.[83538] Yuki Minematsu Analysis of the Impact of Road Network Disruption on Travel Time During Flood Disaster in the Democratic Republic of Timor-Leste 6.[83547] Taisei Koshiji Analysis of the Distribution of Foreign Tourists to Japan and the Risk of Earthquake Disaster: Study Using Mobile Location Data 7.[83606] Naharin Zannat Landslide Hazard Assessment in Chittagong Metropolitan Area (CMA) 8.[83864] Abdullah All Sakib Assessing Flood Risk Impacts Using Earth Observation Technique in Sylhet 9.[83087] Istiaque Ahamed Nabed Urban Air Quality Dynamics: Insights from AQI-Pollutant Interactions & A Predictive Modeling Approach for Bangladesh	Prof. Siti Khairunniza Bejo (UPM, Malaysia) 1. Special Lecture [83603] Prof. Abdus Salam Overview of the Atmospheric Pollution in Bangladesh: Chemical Composition, Source Apportionment, and Impact Assessment 2.[82565] M. Azizul Moqsud Green energy from organic waste, and living plants for a sustainable future 3.[83105] Samitha Daranagama Ganoderma disease detection in oil palm plantations using time series of PALSAR-2 measurements 4.[83253] Shabista Yildiz Exploring Climate Change Effects on Drought Patterns in Monsoon Dominant Tropical Regions using Bias-Corrected CMIP6 GCMs 5.[83431] Saiful Islam Mozumder Exploring financing mechanisms for addressing climate change induced losses and damages to the vulnerable communities of Uttor Anderchar of Sahebrampur Union in Kalikini upazila of Madaripur district, Bangladesh 6.[83501] Mohosina Hossain Nobony Evaluation of Heavy Metal Concentrations in the Vicinity of Industrial Zones along the Meghna River Using Advanced Remote Sensing and Spatial Analysis Techniques 7.[83545] Md. Sahil Rafiq Enhancing Sustainability in Textile Wastewater Treatment: Anaerobic Acetogenic Pretreatment and Aerobic Polishing for Efficient Reuse 8.[83586] Md. Sahil Rafiq Enhancing Sustainability in the Textile Industry: Employing Small-Scale Physical Model to Enhance Wastewater Treatment Aeration Efficiency through Influent Temperature Regulation. 9.[83611] Abida Anjum Alteration of fatty acid biosynthesis pathway to reduce erucic acid in mustard (Brassica rapa L.) by genome editing approach

15:30-16:00	Coffee Break	

16:00-17:10	Session 5: International public health research in Asia Session chairs: Prof. Makoto Fujiu (Kanazawa Univ., Japan) 1. Special Lecture [83422] Prof. Nahid Rezwana Healthcare access in spatial inequalities and disasters: A case study of Nijhum Dwip, a remote island in Bangladesh 2. Special Lecture [83461] Prof. Md. Selim Reza Identification of inhibitory activities of Thearubigin Analogues Against SARS-Corovirus-2 Non-Structural Protein 10-16 complex: A Computational Drug Designing approach 3.[83726] Ahnaf Tazwar Torsa Assessing the Physical and Mental Health Complications of Post-Covid-19 Patients in Bangladesh 4.[83081] Azka Touhida Daiby Assessing PM2.5 Abundance and Associated Health Impacts in Bangladesh: A Comprehensive Study 5.[83823] Md. Saifullah Noor The Influence of Climate Change on the Incidence of Dengue Fever in Dhaka City, Bangladesh 6.[83546] Md. Rabiul Haque Level, trend, and determinants of cesarean births in Bangladesh 7.[83576] Nahid Akhter Jahan Importance of public health interventions in reducing under-five mortality in Bangladesh: findings from a bottleneck analysis using EQUIST	Session 6: Climate Change and Green Recovery, Urban Safety & Disaster Mitigation Session chair: Prof. Md. Rahedul Islam (PUST, Bangladesh) 1.[83393] Nousheen Parven Effects of climate change and high temperature heat stress on aphid fitness traits and symbionts 2.[83195] A.I Oladipupo Spatial-Temporal Assessment of Habitat Quality and Degradation in Sundarbans Mangrove Environment, Bangladesh 3.[82987] Iffat Jahan Shammee Flood Hazard Assessment of Old-Brahmaputra River Using Coupled 1D-2D Hydraulic Model 4.[83075] Yang Yu Four-component decomposition of Pi-SAR2 airborne measurements to assess urban damage of the 2016 Kumamoto earthquake 5.[83536] Nanami Yagishita Analysis of natural disaster risk perception and disaster education focused on The Democratic Republic of Timor-Leste 6.[83029] Asim Abrar Fire Modeling using Fire Dynamics Simulator of the 2022 Sitakunda Fire Event 7.[84312] Saima Nurjahan Air quality determination and identification of its impact on human health and environment
19:00-21:00	Banquet at Intercontinental Hotel	
Thursday, 7 December 2023		
09:00-10:30	Session 7: Climate Change and Green Recovery Session chairs: Dr. Xuan Truong Trinh (UTokyo, Japan) 1. Special Lecture [80859] Prof. Tsuyoshi Shiga APPLICATION OF G-HEX SYSTEM IN FOOD PROCESSING FACTORY IN VIETNAM	Session 8: International Public Health Research in Asia Session chairs: Prof. Md Iqbal Kabir (Ministry of Health & Family Welfare, Bangladesh) 1. Special Lecture [83534] Prof. Md Iqbal Kabir

2.[83165] Xuan Truong Trinh Sentinel-1-based SAR Approach to Identifying Offshore Aquaculture Facilities in Vietnam 3.[83373] Md. Shawkat Islam Sohel Assessing the Impact of Native and Plantation Forests on Catchment Water Yield in Tropical Regions: A meta-analysis 4.[83535] Mohammad Shakhawat Hosen Apurba PROMOTING THE SUSTAINABLE DEVELOPMENT GOALS THROUGH THE WASTEWATER TREATMENT AND MATERIAL WASTE CIRCULARITY IN THE TEXTILE–APPAREL SECTOR: A CASE STUDY FROM BANGLADESH 5.[83583] Mohammad Shakhawat Hosen Apurba Exploring Energy Reclamation Prospects from Elevated-Temperature Textile Processing Wastewater in Resource Challenged Economies: An Analysis of Energy Recovery, Energy Economics and Reduction in Carbon Dioxide Emission 6.[83602] Shaheena Sultana Environmental Footprints of Agri-fresh Food Sector by Cottage, Micro, Small & Medium Enterprises in Bangladesh: Standardizing Data with ELCA for Policy Guidance 7.[83609] Romana Ibrahim Prediction of Groundwater Salinity in the South-Western Coastal Regions of Bangladesh Using Machine Learning Techniques 8.[83622] Nandiny Ghosh Improvement of fiber quality of jute through CRISPR-Cas9 genome editing 9.[83622] T.H.Mim METEOROLOGICAL DROUGHT PREDICTION FOR THE NORTHWEST REGION OF BANGLADESH USING ARTIFICIAL NEURAL NETWORK (ANN)	Climate resilient public health in South East Asia : challenges of One Health data analytics for Antimicrobial Resistance in a changing climate 2.[83272] Ragaul Azim The working environment of the clinical health workforce in the public health facilities in Bangladesh 3.[83921] Fardin Araf Internal Migration and Maternal Healthcare Services Utilization in Bangladesh 4.[83448] Sara Sultana Development and Validation of a Scale to Measure the Health Literacy of Parents/Caregivers of Children with Special Health Care Needs (CSHCN) 5.[83552] Ishika Pal Managerial networking in healthcare during COVID-19 pandemic 6.[83555] Aishee Chakravorty Ethnobotanical perspective of different medicinal plants and their domestic usages in treating common diseases 7.[83604] Swapnanil Mondal Investigating the recent advancements in healthcare, considering COVID-19 pandemic era 8.[83573] Farhan Jamil Enhanced usage of medical devices for public and clinicians in recent world
10:30-11:00 Coffee Break	
11:00-12:40 Session 9: Urban Safety & Disaster Mitigation Session chair: Prof. Osamu Murao (Tohoku Univ.,	Session 10: Infrastructure Management and Sustainable Built Environment Session chair:

Japan)	Prof. Dr. M. Maksudur Rahman (Dhaka Univ., Bangladesh)
1. Special Lecture [83072] Prof. Tetsuro Ito	Prof.Tsukasa Mizutani (UTokyo, Japan)
Effects of Ash Fall from Mt. Fuji Eruption on the Contemporary Metropolitan Area	1.[80875] Ryo Sawada
	Survey Using 3D Laser Scanner and UAV for Historic Site Preservation
2. Special Lecture [81517] Debi Prasanna Kanungo	
Landslide Disaster Risk Reduction: Developments and Issues for Sustainable Built Habitat in Hilly Terrain	2.[83039] Manazir Hussain
	Improving the Efficiency of Construction Accuracy Management of Utility Duct Using iPhone LiDAR Point Cloud Analysis
3. Special Lecture [83621] Prof. Imdad Ali Brohi	
Urban Safety and Disaster Mitigation in Pakistan	3.[83066] Shoki Shimada
	Sentinel-2 based solar PV mapping and applications for land-cover change assessment and hazard-risk evaluation in Japan
4.[83220] Habiba Azad	
Development of Storm Surge Prediction Model Using Artificial Neural Network in the Southern Region of Bangladesh	4.[83466] Nuzhat Noor Maisha
	Finding the Best Geothermal Reservoirs in Bangladesh for Commercial Development: An Analysis of Barapukuria Coal Mine Area.
5.[83457] Md. Shahoriar Sarker	
Land Subsidence Monitoring using InSAR Technique in the Southwestern Region of Bangladesh	5.[83163] Yuki Yamazaki
	Urban Dynamics through Event Analysis: A Spatio-Temporal Graph Approach Using Media Data
6.[83533] Shuhei Kaneko	
Evaluation of visibility at intersections without traffic lights using point cloud data	6.[83531] Md. Zawad Amin As-Salek
	Quantifying Construction and Demolition Waste Generation and Assessing the Recovery and Recycling Potential to Reduce Raw Material and Energy Consumption to promote Responsible Production and Consumption through the Principles of Circular Economy: An Analysis of 12 City Corporations in Bangladesh
7.[83544] Shota Tachibana	
ANALYSIS OF LOST SALES OPPORTUNITIES DUE TO FLOOD DAMAGE USING PURCHASING BIG DATA	
8.[83567] Md. Shakil Hossain	7.[83542] Taiki Suwa
Assessment of COVID-19 Pandemic Impacts on Rural Livelihood and their Coping Mechanism in Goyeshpur Union of Pabna District	Development of effective investigation method for sewage pipes using machine learning
	8.[83559] Mehjabee Mahmud Mattra
9.[83599] Taiki Mashio	Sustainability of construction sand: A global review
Analysis of Leisure Behavior and Intention to Live in the Communities Focus on a Small Local City in Japan	9.[84311] E.M.Talid Khan
	Damage and loss assessment of households for Sylhet flood 2022.
10.[83455]Ahmad Kamruzzaman Majumder	
Exploring Variations of PM2.5 and PM10 Concentrations in Educational Institutions of Dhaka South City Corporation	
12:40-13:40	Lunch

13:40-15:20	Session 11: Climate Change and Green Recovery Session chairs: Prof. Abdul Rashid Bin Mohamed Shariff (UPM, Malaysia) 1.Special Lecture[83447] MD. Faruk Hossain Carbon Credit Business Prospect in Bangladesh 2.[83108] Chihiro Naito Trend analysis of climate and water use efficiency in palm oil area in Malaysia with remote sensing 3.[83010] Anika Tabassum Impact of Urban Sprawling on Urban Heat Island: A Microclimate Change Study in Chattogram City 4.[83624] Md. Al-amin Hossen Light Absorption Characteristics of Brown Carbon and Black Carbon from Biomass Burning and Fossil Fuel Combustion in Dhaka 5.[83526] Md. Sahil Rafiq Sustainable Treatment of Textile Processing Wastewater in Resource Challenged Economies: Utilizing Calcium Hypochlorite Oxidation Followed by Sand Filtration with Waste Blast Furnace Iron Slag for Repurposing Treated Effluent in Wet Processing 6.[83593] Mahima Yusuf Tarana Water Quality Prediction of Buriganga River Using Remote Sensing Techniques 7.[83608] Akib Mahmood Mitigating Aquifer Stress: A Case Study of Rainwater Utilization as an Alternative Source in Textile Wet Processing in Narayanganj, Bangladesh 8.[83615] Tamima Sultana Genome Editing Approach to Develop Climate Smart Potato Variety in Bangladesh 9.[83617] Aparna Barman Status of Climate Change Vulnerability Studies in Bangladesh: A Systematic Review	Session 12: Urban Safety & Disaster Mitigation Session chairs: Prof. Mehedi Ansary Ahmed (BUET, Bangladesh) 1. Special Lecture [83194] Prof. Kimiro Meguro Real Impacts due to the 1923 Great Kanto Earthquake on Japan 2. Special Lecture [81516] Prof. Pradeep Kumar Ramancharla Structural Analysis and Design Methodology for Disaster Resilient School Buildings in Nepal 3.[83063] So Fumiyama Investigating angular effects of nighttime light and urban typology in Tokyo with remote sensing 4.[83524] Yuta Moriwaki ANALYSIS OF REGIONAL DISTRIBUTION OF PATIENTS WITH INTRACTABLE DISEASES LIVING UNDER HOME CARE DURING LARGE SCALE DISASTERS USING NATIONAL HEALTH INSURANCE DATA 5.[83543] Koki Nakabayashi Basic Analysis of Earthquake Disaster Risk Assessment for Cruise Ship Passengers Visiting Tourism Spots 6.[83549] Takashi Miyazawa Evaluation of bicycle sharing using closed queuing network 7.[83580] Fatematuz Zohora Niha Analyzing the changes in river morphology of Satkhira district, Bangladesh using Earth Observation Techniques 8.[83614] Afsana Tabassum Delineation of flood risk zones and affected land use land cover for Sunamganj and Sylhet districts using remote sensing approaches 9.[83768] S M Sium Flash Flood Hazard Zonation and Risk Analysis in North-eastern Haor Region of Bangladesh 10.[83432] Almad Kamruzzaman Majumder Analyzing Air Quality Index (AQI) and $PM_{2.5}$ Concentration for Dhaka City from 2016 to 2022, Bangladesh

15:20-16:00	Coffee Break	
16:00-16:50	Keynote lecture Assoc. Prof. Ts. Dr. Siti Khairunniza Bejo, Universiti Putra Malaysia, Malaysia [84720] Basal Stem Rot (BSR) disease detection at different severity levels of infections using machine learning with vegetation indices and thermal imagery. Dr. Khondkar Siddique-e-Rabbani, Dhaka University, Bangladesh Lifestyle improvement and healthcare through an advanced telemedicine system in rural areas of LMICs - a holistic technology oriented approach, based on the field experience of 'Dhaka University Telemedicine Programme	
16:50-17:50	Closing Ceremony at Senate Building (Venue), Dhaka University Moderator: Dr. Shamima Sifa (Dhaka University, Bangladesh) Review of OHOW2023 Prof. Wataru Takeuchi, IIS, The University of Tokyo, Japan Young Award Ceremony Prof. A.S.M. Maksud Kamal, Dept. of Disaster Science Climate Resilience, University of Dhaka, Bangladesh Announcement of OHOW2024 Prof. Abdul Rashid Bin Mohamed Shariff, Universiti Putra Malaysia, Malaysia Closing Remarks Prof. A.S.M. Maksud Kamal	
18:30-	Farewell Party at Dhaka University	

Friday, 8 December 2023
Technical Tour

National parliament visit is planned. Details will be announced soon.