

Programme Schedule

1ST INTERNATIONAL CONFERENCE ON ENVIRONMENT

Climate Change and Ecosystem Restoration

Environmental Science Discipline

Khulna University, Khulna 9208, Bangladesh

February 19-20, 2022 (Saturday- Sunday)

Day 1- Saturday (February 19, 2022)

Inaugural Session

Venue: Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University

08.00 Kits Distribution

08.45 Guests and Participants take their seats

09.00 National Anthem, Presenting bouquet of flower

09.05 Discipline Theme Song

09.10 Address of welcome and introduce the foreign delegates

Professor Dr. Abdullah Harun Chowdhury

Head, Environmental Science Discipline, Khulna University and Organizing Secretary, 1st International Conference on Environment

09.20 Address by the Patron

Professor Khan Golam Quddus

Dean, Life Science School, Khulna University, Bangladesh

09.25 Address by the Patron

Professor Dr. Mosumath Hosna Ara

Pro-Vice Chancellor, Khulna University, Bangladesh

09.35 Presentation on the Conference Theme : Climate Change and Ecosystem Restoration

Professor Dr. Ainun Nishat

Professor Emeritus, BRAC University, Dhaka, Bangladesh

09.50 Address by the Special Guest

Begum Habibun Nahar, MP

Deputy Minister, Ministry of Environment, Forest and Climate Change

Government of the People's Republic of Bangladesh

10.00 Address by the Chief Guest

Md. Shahab Uddin, MP

Minister, Ministry of Environment, Forest and Climate Change

Government of the People's Republic of Bangladesh

10.10 Address by the Chair

Professor Dr. Mahmood Hossain

Vice Chancellor, Khulna University, Bangladesh
Chief Patron, 1st International Conference on Environment

- 10.15 Vote of Thanks
Professor Dr. Dilip Kumar Datta
Convener, 1st International Conference on Environment
- 10.20-10.40 Refreshment
Courtesy: Dean, Life Science School, Khulna University

Keynote Presentation

- Venue Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
- Time 10.45-12.00
- Chairman Professor Dr. Dilip Kumar Datta
Environmental Science Discipline, Khulna University, Bangladesh
- Co-Chairman Professor Dr. Abdullah Harun Chowdhury
Head, Environmental Science Discipline, Khulna University, Bangladesh
- Rapporteur Prosun Kumar Ghosh
Environmental Science Discipline, Khulna University, Bangladesh

Presentation duration 12 minutes and discussion 3 minutes for each presentation

- ICES-K01 Bangladesh wildlife: a call to arrest its declination through remedial policies and management
Mohammad Ali Reza Khan
- ICES-K02 Role of white sandal (*Santalum album* L.) on ecosystem restoration
Jagatpati Tah
- ICES-K03 Botanicals: safe grain protectants against pulse beetle infestation
Meera Srivastava
- ICES-K04 Application of biomarkers in ecotoxicology: special emphasis on biochemical and cellular responses
Apurba Ratan Ghosh
- ICES-K05 A sustainability perspective on integrated climate risk management
Lars Nyberg
- ICES-K06 Non-wood forest product of the Sundarbans, Bangladesh: the context of management, conservation and livelihood
Mahmood Hossain

Technical Session-1A : Climate Change

- Venue Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
- Time 12.00-13.30
- Chairman Professor Dr. Udhab Raj Khadka

	Central Department of Environmental Science, Tribhuvan University, Nepal
Co-Chairman	Dr. Ramesh Prasad Sapkota Central Department of Environmental Science, Tribhuvan University, Nepal
Rapporteur	Dr. Md. Emdadul Haque Department of Disaster Management, Begum Rokeya University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A02	Cardiac fitness among male paddy cultivators: a case study from west Bengal in the context of raising ambient temperature Ayan Chatterjee, Sandipan Chatterjee, Neepta Banerjee, Shankarashis Mukherjee
ICES-A04	Agro-ecological attributes for maize cultivation in North Bengal plains under the realm of rapid changes in the climatic pattern and the resultant impacts A K M Anwaruzzaman
ICES-A11	Impact of the climate change induced migration on urban development: a study on Barishal sadar and Dhaka of Bangladesh Tasnuva Habib Zisan
ICES-A31	Application and practices of indigenous knowledge in adaptation endeavours driven by rapid changes in climatic pattern in Bangladesh Mahfuzul Haque
ICES-A38	Shifting of the seasons: a threat to life D. P. Kuity
ICES-A64	Is feminisation of adaptation intervention a panacea to build adaptive capacity to climate change? Insights from Bangladesh Md. Masud-All-Kamal
ICES-A67	Climate change and migration: a bibliometric analysis Nishad Nasrin, Mohammed Ziaul Haider and Md. Nasif Ahsan
ICES-A116	Livelihood vulnerability and adaptation strategies to climate change in Satkhira, Bangladesh Sunim Sohana and Farzana Raihan

Technical Session-1B: Coastal Area and Salinization

Venue	Room No. 2365, 2 nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	12.00-13.30
Chairman	Professor Dr. A. Q. M. Mahbub Vice Chancellor, Bangabandhu Sheikh Mujibur Rahman Science and Technology University, Gopalganj 8100, Bangladesh
Co-Chairman	Professor Dr. Md. Atikul Islam Environmental Science Discipline, Khulna University, Bangladesh
Rapporteur	Mamunor Rashid Mass Communication and Journalism Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A23 Taxonomic account on few newly recorded species of jumping spiders genus *Bianor* (peckham and peckham, 1885) from coastal regions of Khulna, Southwest Bangladesh
Vivekanand Biswas
- ICES-A25 Exploring the causes and adaptation measures of soil and water salinization in coastal Bangladesh
Jawad Ahmed and Shamsun Naher
- ICES-A46 Salinity of river water: an ecological concern of coastal Bangladesh
Simu Akter, Eshrat Zahan Eshita, Sanzida Jahan Sharna and Puja Biswas
- ICES-A48 Crop adaptation under climate change regime in coastal Bangladesh
Md. Isfatuazzaman Bhuyan, Iwan Supit, Uthpal Kumar, Shamim Mia and Fulco Ludwig
- ICES-A70 Climate smart adaptation strategies of livestock farmers in the coastal belt of Bangladesh
Abu Nahiyen, Sabiha Islam, T.S Amjath Babu, Mahesh Gathala, Md. Ahidul Islam, Muhammad Jahangir Hossen
- ICES-A72 Integrated multi-trophic aquaculture approach: production enhancement in traditional prawn farming system in South west coastal Bangladesh
Shanchita Zaman Chowdhury and Khandaker Anisul Huq
- ICES-A83 Species selection for sustainable coastal afforestation and restoration in Bangladesh
Jarín Tasneem Oyshi, Istiak Ibne Rouf, Md. Samiullah, Mohaimin Ul Kabir, Saw. Mu. Shamoel Haque, Sharmin Nahar Nipa, Roufa Khanum and Ainun Nishat
- ICES-A85 Factors influencing gendered access to climate information services for crop farming in coastal Bangladesh
Sayoda Sanzida Rahman, Md. Mamun-ur-Rashid and Md. Ektear Uddin

Technical Session-1C: Wetlands and Aquatic Environment

- Venue Room No. 2367, 2nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
- Time 12.00-13.30
- Chairman Professor Dr. Golam Shabbir Sattar
Vice Chancellor, University of Rajshahi, Rajshahi 6205, Bangladesh
- Co-Chairman Professor Dr. Redwanur Rahman
Institute of Environmental Sciences, University of Rajshahi, Bangladesh
- Rapporteur Rabeya Sultana
Environmental Science Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A47 Restoration of a sandy Saalian Moraine lake ecosystem in Northern Germany: the lessons learned
Salma Begum and Md. Zahidul Islam

ICES-A55	Assessment of water quality of an abandoned opencast coal pit (OCP) of Asansol-Raniganj coalfield (ARCF), Paschim Bardhaman, West Bengal, India Amit Kumar Dey and Apurba Ratan Ghosh
ICES-A76	Heavy metal contamination in water and sediment from shrimp farms of Satkhira district, Bangladesh Naser Mustafa and Abdullah Harun Chowdhury
ICES-A82	Physicochemical characteristics of Alpine lakes Gosaikunda and Suryakunda, Rasuwa district, Nepal Monika Ghimire, Smriti Gurung, and Udhab Raj Khadka
ICES-A89	Limnology of Raja-Rani lake: an aquatic habitat in tropical region of Eastern Nepal Eliza Acharya Siwakoti, Chitra B. Baniya and T.N. Mandal
ICES-A98	Characterization of fluorescence dissolved organic matter (FDOM) in surface and ground water of salinity affected South-east coastal region of Bangladesh Mohammad Mohinuzzaman, Nusrat Ara Mimi, Shahriar M Arifur Rahman, Khan M G Mostofa, Shafi M Tareq, Mohammad Mahbub Kabir, Sayed Mohammad Nazim Uddin and Nahin Mostofa Niloy
ICES-A106	Transformation of a wetland ecosystem: a case study from Chupi, West Bengal, India Mobina Parveen and Jagatpati Tah
ICES-A113	Study on closed system shrimp aquaculture: a sustainable alternative to protect and restore mangrove ecosystems Chemon Humayra Tasnima, Mohammad Alamgir and A.S.M Sayem

13.30-14.30 Lunch Break

Technical Session-2A : Conservation, Management and Adaptation

Venue	Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	14.30-16.00
Chairman	Paul McCallion Senior Energy and Environment Officer, UNHCR, Cox's Bazar, Bangladesh
Co-Chairman	Professor Dr. Md. Mahfuzur Rahman Department of Botany, Jahangirnagar University, Bangladesh
Rapporteur	Ehsanul Hoque Assistant Environment Officer, UNHCR, Cox's Bazar, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A01	Improving environmental health and resilience of refugees in Kutupalong mega-camp through macro settlement planning and development Md. Sultan Mahmud, Ranya Sherif, Francesco Tonnarelli and Saiful Tareq Fuad
ICES-A26	Conserving floral diversity through assisted natural regeneration (ANR) in Sitapahar Nutun Para and Bagan Para of Bandarban hill district, Bangladesh Asim Kumar Paul, M. Jahangir Alam and A.H.M. Jahangir Alam

- ICES-A28 Sedimentation management through nature-based solution (NBS) in Madhur Chhara watershed: evidence from Kutupalong mega camp (KMC), Ukhiya, Cox's Bazar, Bangladesh
Md. Nuralam Hossain, Maliha Tabassum, Syed Mohammad Zihan, Karishma Tarannum and Md. Abdul Maleque
- ICES-A29 Nbs in humanitarian response: a case study from Kutupalong-Balukhali, the world's largest refugee camp
Raquibul Amin, Verónica Ruiz, Daisy Hessenberger, Shohag Ahmed, Paul Mccallion and Ehsanul Hoque
- ICES-A62 Is covid-19 lockdown a blessing for conservation of Ganges River dolphin (*Platanista gangetica gangetica*)
Syed M Istiak
- ICES-A78 Does subsidy works to reduce demand for firewood in forest dependent communities?
A K Enamul Haque, Estiaque Bari, Raquibul Amin and Dewan Mowdudur Rahman
- ICES-A79 Effect of elevation and edaphic factor on mycorrhizal association of *Shorea robusta* (gaertn.) in the tropical forest of Eastern Nepal
Sabitri Shrestha, Tilak Prasad Gautam, Tej Narayan Mandal, Jay Kant Raut and Sujana Chaudhary
- ICES-A101 Soil quality of the world's largest refugee campsites located in the hill forest of Bangladesh and the way forward to improve the soil quality
Mahmood Hossain

Technical Session-2B : Heavy Metals and Toxicology

- Venue Room No. 2365, 2nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
- Time 14.30-16.00
- Chairman Professor Dr. Sanjoy Kumar Adhikary
Member, Bangladesh Accreditation Council
- Co-Chairman Professor Dr. Md. Abdul Mannan
Agrotechnology Discipline, Khulna University, Bangladesh
- Rapporteur Sara Monami Hossain
Mass Communication and Journalism Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A44 Interactive effects of cadmium and salinity on growth, nutrient status and cadmium accumulation in selected vegetables
Mohammad Zaber Hossain, Md. Atikul Islam, Md. Azharul Islam, and Khondoker Qudrata Kibria

ICES-A49	Time dependent ultrastructural alterations on the skin, eye and barbel of spawn of <i>Clarias batrachus</i> (Linn., 1758) exposed to UV-B radiation Arghya Mandal and Apurba Ratan Ghosh
ICES-A50	Heavy metal contamination of water and sediment and histopathological analysis of Teleostean fish (<i>Mystus</i> sp.) from Digha coastal belt, West Bengal Atanu Patra and Apurba Ratan Ghosh
ICES-A51	Assessment of heavy metal concentration and ecological risk through consumption of fish from Damsal Nala, Jajpur, Odisha Niladri Sekhar Mondal and Apurba Ratan Ghosh
ICES-A53	Exposure under choline chloride exhibits successful gonadal maturation of Indian major carps and air-breathing Teleosts in a semi-intensive pisciculture system: a histopathological introspection Subhas Das and Apurba Ratan Ghosh
ICES-A75	Heavy metals in vegetables of Dumuria upazila, Khulna, Bangladesh Rownak Zahan and Abdullah Harun Chowdhury
ICES-A100	Spatial distribution of air quality in Kushtia municipality, Bangladesh Ahmad Kamruzzaman Majumder, Marziat Rahman and Md. Golam Mostofa
ICES-A110	Spatial distribution and ecological risk of heavy metals in surface sediments from the old Brahmaputra River in Mymensingh, Bangladesh Md. Sirajul Islam, Rifat Shahid Shammi, Rahiatul Jannat Labonno and Md. Humayun Kabir

Technical Session-2C : Plants and Environmental Management

Venue	Room No. 2367, 2 nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	14.30-16.00
Chairman	Dr. Rafiqul Haider Director, Bangladesh Forest Research Institute
Co-Chairman	Dr. Mohammad Mohinuzzaman Chairman, Department of Environmental Science and Disaster Management Noakhali Science and Technology University, Bangladesh
Rapporteur	Md. Ashik-Ur-Rahman Environmental Science Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A06	Ornamental plants for environmental management at roadsides in Kathmandu valley, Nepal Sushila Devi Shrestha
ICES-A15	Diversity of vascular plant in Bangabandhu Safari Park, Gazipur, Bangladesh: an ecological approach Mollah Rezaul Karim and M. Mahfuzur Rahman

- ICES-A16 Association and temporal variation of plant diversity in Birganj and Nawabganj national parks, Dinajpur, Bangladesh
Md. Babul Hossen and M. Mahfuzur Rahman
- ICES-A17 **Seasonal variation and association of vascular plants in Khagrachari sadar region**, Khagrachari, Bangladesh
Dolan Kanti Bhattacharjee, M. Mahfuzur Rahman, M. Musharof Hossain and Shaikh Bokhtear Uddin
- ICES-A56 Occurrence of Chelonians and their habitat characteristics in Nepal
Tapil Prakash Rai, Kalu Ram Rai, and Udhab Raj Khadka
- ICES-A73 Diversity pattern of vascular plant at varied elevations in Arghakhanchi, West Nepal
Baburam Nepali, John Skartveit and Chitra Bahadur Baniya
- ICES-A80 Impact assessment of Mikania micrantha on associated plant species and soil physiochemical properties in central Nepal
Binod Malla, Ram Kailash P. Yadav, Pramod Kumar Jha, Narayan P Ghimire, Achyut Tiwari and Chitra B. Baniya
- ICES-A88 Impacts of restoration practices on species assemblage and diversity in mixed Dipterocarp forests of Nepal
Pradeep Ghimire, Ramesh Prasad Sapkota, and Kedar Rijal

16.00-16.30 Tea Break

Technical Session-3A: Forest and Sundarbans

Venue	Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	16.30-18.00
Chairman	Professor Dr. M. Monzur Hossain Chairman, Department of Botany, University of Rajshahi, Bangladesh
Co-Chairman	Professor Dr. Md. Iftekhar Shams Head, Forestry and Wood Technology Discipline, Khulna University, Bangladesh
Rapporteur	Sadhon Chandra Swarnokar Environmental Science Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A03 Assessing exploitation of forest resources by rural communities in the district of Jhelum, Pakistan
Rubab Zafar Kahlon and Ibtisam Butt
- ICES-A07 Top dying of Sundri in the Sundarbans of Bangladesh
ASM Helal Siddiqui

ICES-A13	Quantification and mapping of fragmented forest landscape in dry deciduous forest of Burdwan forest division, West Bengal, India Shyamal Dutta, Ipsita Dutta, Arijit Das and Sanat Kumar Guchhait
ICES-A14	Effectiveness of payment for conservation of the Sundarbans mangrove forest in Bangladesh: application of contingent valuation method Md. Hafiz Iqbal, Md. Nur Mozahid, Md. Mostofa Kamal and Md. Enamul Haque
ICES-A19	Willingness to pay (WTP) for conservation of the Sundarbans mangrove ecosystem in the context of climate change: a contingent valuation method for informed decision making Md. Nur Mozahid, Sharmin Akter and Md. Hafiz Iqbal
ICES-A30	Leaf pigment and total carbohydrate content at the early and survival ages (6, 9 and 30 months) of <i>Heritiera fomes</i> l. seedlings grown at three saline zones of the Sundarbans mangrove Hasina Mariam and ANM Alamgir
ICES-A60	Restoration of nutrients in vegetation along landslide damaged sites in Sal Forest ecosystem of Nepal Himalaya T.N. Mandal
ICES-A68	Soil properties and fine root contents in moist tropical forests of Eastern Nepal P. Gachchedar, C. B Baniya and T. N. Mandal

Technical Session-3B: Health Risk and Related Issues

Venue	Room No. 2365, 2 nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	16.30-18.00
Chairman	Professor Dr. Chowdhury Sarwar Jahan Department of Geology and Mining, University of Rajshahi, Bangladesh
Co-Chairman	Professor Dr. Md. Abdullah Yousuf Al Harun Environmental Science Discipline, Khulna University, Bangladesh
Rapporteur	Md. Abdullah-Al-Mahbub, Department of Disaster Management Begum Rokeya University, Rangpur, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A22	Variation in cadmium accumulation among Aus rice cultivars in Bangladesh and associated human health risks Khandoker Qudrata Kibria, Md Atikul Islam, Md. Azharul Islam and Mohmmad Zaber Hossain
ICES-A63	Assessing the impact of waterlogging on health and education of orphans in the Southwest region of Bangladesh Md. Mahedi Al Masud and Sadhon Chandra Swarnokar
ICES-A77	Bioaccumulation of heavy metal in farmed tilapia and shrimp in Satkhira district, Southwest Bangladesh

	Sajib Roy and Abdullah Harun Chowdhury
ICES-A84	Prevalence of internet addiction and its associated factors among adolescents in Khulna city corporation, Southwest Bangladesh Refat Zahan and Quazi Zahangir Hossain
ICES-A91	Impact of covid-19 on education and health: a socio-economic perspective from Bangladesh Abdullah Abu Sayed Khan
ICES-A92	Medical waste management: a perspective from Bangladesh Pronab Kumar Debnath
ICES-A96	Impact of sanitation intervention at urban communities in Southwest coastal Bangladesh Muhammad Abdul Hadi and Quazi Zahangir Hossain
ICES-A112	Microplastic contaminants in table salt manufactured in Bangladesh Amjad Patwary, Jahid Hasan Shourove, Subrata Sarker and G. M. Rabiul Islam

Technical Session-3C : Community Interference to Ecosystem Processes

Venue	Room No. 2367, 2 nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	16.30-18.00
Chairman	Raquibul Amin Country Representative, IUCN, Bangladesh Country Office
Co-Chairman	Professor Dr. Md. Mujibor Rahman Environmental Science Discipline, Khulna University, Bangladesh
Rapporteur	Dr. Tasnuva Habib Department of Public Administration, Barisal University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A09	Exploring contextual relationship between human settlement and river avulsion in the Bengal basin between 1772 and 2020 Md. Rifat-Ur-Rahman
ICES-A27	Migration due to frequent changes in the climatic pattern in South-east region of Bangladesh S. Tanzia, N. Nipa and T. R. Tuhin
ICES-A66	Integrated farming practice in rural areas of Bangladesh: challenges and opportunities Nadira Islam, Tanver Hossain and Md. Nakibul Hasan Khan
ICES-A85	Factors influencing gendered access to climate information services for crop farming in coastal Bangladesh Sayoda Sanzida Rahman, Md. Mamun-ur-Rashid and Md. Ektear Uddin
ICES-A87	Physical and human dimension of a freshwater oxbow lake of the Kabodak River, Bangladesh

- Munia Tahsin and Mohd. Shamsul Alam
- ICES-A90 Community perceptions on effectiveness of cyclone shelters: a case from three Upazilas of Cox's Bazar, Bangladesh
Mohaimin-ul-Kabir, Md. Samiullah, Saw. Mu. Shamoel Haque, Sharmin Nahar Nipa, Jarin Tasneem Oyshi, Md. Mahjib Hossain, Roufa Khanum and Ainun Nishat
- ICES-A94 Effect of soil texture and its moisture content on river bank erosion in Tista River basin, Bangladesh
Md. Emdadul Haque, Moushumi Akther, M. Maliha Samshad and M. Moriom Parvin
- ICES-A108 Big hope for a community at risk: people's mobility and adaptation in Nijhum island, Bangladesh
Rabiul Islam

Poster Presentation

Opening at 12.00 (After Keynote Presentation)

Venue Corridor of 2nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University

Evaluation 16.45-17.45

- Evaluation Team Professor Dr. Mahfuzul Haque
Bangladesh University of Professionals, Dhaka, Bangladesh
- Professor Dr. Md Abdul Hannan
Department of Law, University of Rajshahi, Bangladesh
- Professor Dr. Muhammad Jahangir Hossen
Department of Animal Science, Pautakhali Science and Technology University, Banglaesh
- Professor Dr. Meher Un Nessa
Environmental Science Discipline, Khulna University, Bangladesh
- Professor Vivekanand Biswas
Department of Zoology, Khulna Government Women's College, Bangladesh
- Rapporteur Sadia Islam Mou
Environmental Science Discipline, Khulna University, Bangladesh
- ICES-A08 Impact of climate change on the Sundarbans, Bangladesh
ASM Helal Siddiqui
- ICES-A10 Sustainable resource management and food security: a study from backward community in India
Asraful Alam
- ICES-A12 Threats to and prevention of biodiversity loss in St. Martin Island, Bangladesh
T. R. Tuhin; N. Nipa and M. N. H. Khan

- ICES-A18 Assessment of human health risk by polycyclic aromatic hydrocarbons
Nazmul Islam, Emon Das, Iftekhar Ahmad and Wahidu Zzaman
- ICES-A20 Biological potentiality of endophytic fungi associated with *Vitis trifolia*
Azmira Islam, Priyanka Tithee Malaker, Mst. Sabiha Sultana and Md. Amirul Islam
- ICES-A21 Bioactivity of endophytic fungi associated with *Amoora cucullate*
Priyanka Tithee Malaker, Azmira Islam, Mst. Sabiha Sultana and Md. Amirul Islam
- ICES-A24 Health and economic impacts of climate change in rural Bangladesh and options to go through
Farhana Ferdaus and Salma Begum
- ICES-A33 Impact of climate change on tribal livelihood in coastal zone: from geographical perspective
Bapan Biswas
- ICES-A34 Impact of open pit coal mining on forest landscape: a study on Barabani c.d. block, West Bengal using spatial metrics
Soumen Chatterjee
- ICES-A36 Impact of mining on environment
Vandita and Kumud Dubey
- ICES-A43 Current status of *Pila globosa* in Bangladesh
Umme Habiba Shathi and Md. Redwanur Rahman
- ICES-A65 Rooftop farming in Bangladesh: an option for sustainable cities
Tanver Hossain, Nadira Islam and Md. Nakibul Hasan Khan
- ICES-A71 Construction and demolition waste management practice in Mymensingh, Bangladesh
Zannatul Mouwa, Touhida Akter, Mahmud Kamal Anamul Haque, and Md. Nakibul Hasan Khan
- ICES-A74 Land-use transformation in coastal Bangladesh
Md. Rakibul Islam and Md. Esraz-Ul-Zannat
- ICES-A86 Perception of tribal farmers on climate change and adoption strategies in Chittagong Hill Tracts, Bangladesh
Md. Mamun-ur Rashid, Satej Chakma and Md. Ektear Uddin
- ICES-A95 Elucidating seasonality of covid-19 spread in Bangladesh at contrasting geographic locations
Syed Nazmus Sakib and Abu Reza Md. Towfiqul Islam
- ICES-A99 Suspended particulates and gaseous pollutants in Khulna city corporation, southwest Bangladesh
Ahmad Kamruzzaman Majumder, Kazi Sakib Reasat and Marziat Rahman
- ICES-A102 People's perception on management and disposal of personal protective equipment for corona virus in Bangladesh
Marziat Rahman, Imrus Sayeed and Ahmad Kamruzzaman Majumder
- ICES-A104 Feasibility of mounting a floating photovoltaic plant in Teesta barrage area, Dimla, Lalmonirhat, Bangladesh: an alternative source of energy

	Md. Golam Rabbani and Md. Abdullah-Al-Mahbub
ICES-A105	Prospect of generating electricity from solid wastes in Rangpur city corporation, Rangpur, Bangladesh Liton Roy and Md. Abdullah-Al-Mahbub
ICES-A114	Nitrate in fruits and vegetables and their potential health risk in Bangladesh Rayhan Uddin, Mostak Uddin thakur, Mohammad Zia Uddin, Iftekhar Ahmad and G. M. Rabiul Islam
ICES-A117	Climate change: adaptation and perception at coastal regions peripheral to the Sundarbans, Bangladesh Md. Akramul Islam
ICES-A118	Eco-friendly control of cucurbit fruit fly (<i>Bactrocera cucurbitae</i>) infestation in experimental cucumber field with some botanicals Mst. Samia Sultana Md. Abul Kalam Azad and Md. Saiful Islam
ICES-A119	Grassroot initiatives to climate resilient sea fishing during cyclones in the bay of bengal Shamim Arfeen

Cultural Program

Venue	Teacher's Club, Khulna University
Time	18.30-19.30

Dinner

Venue	Teachers Club, Khulna University
Time	20.00

Day 2 (Date: 20-02-2022)

Technical Session-4A : Biotechnology and Energy

Venue	Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	9.00-10.30 am
Chairman	Professor Dr. Afroza Parvin Dean, Science, Engineering and Technology School, Khulna University, Bangladesh
Co-Chairman	Professor Dr. Wahidu Zzaman Department of Food Engineering and Tea Technology, Shahjalal University of Science and Technology University, Bangladesh
Rapporteur	Simu Akter Environmental Science Discipline, Khulna University, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A35 Biodegradation of textile azo dye by native bacterial isolates
A.B.M. Inamul Haque, Ahsan Habib and Ayesha Ashraf
- ICES-A37 Bioremediation of red mud: a sustainable approach
Darshita Rawat, Ashish Kumar Yadav and Kumud Dubey
- ICES-A45 Semiochemical interaction and olfactory responses of *Aulacophora foveicollis* lucas - an ecologically important pest - to cucurbita maxima plant volatile from West Bengal, India
Kakali Bhadra
- ICES-A52 A novel process of extracting mahogany oil and cake from mahogany seeds and its application as biopesticide in agriculture
Syed Md Abdul Matin and Syed Md Nurul Haque
- ICES-A57 Natural process of hemi-parasitic establishment in root zone of white sandal (*Santalum alnum* L.): a documentary from West Bengal, India
Nirupama Goswami Bhattacharyya and Jagatpati Tah
- ICES-A103 Chemical and biological investigation of *Sanchezia nobilis*. Hook. F.
Progga Paramita Paul and Utpal Kumar Karmakar
- ICES-A107 Coupled model intercomparison project phase 6 based projected changes in precipitation over Bangladesh
Abu Tareqe Md. Tamim, Md. Rabiul Islam and Hosen M. Imran
- ICES-A109 Alteration of phytochemical gradients in insect induced Folliar Galls
Sampurna Roy and Amlan Das

Technical Session-4B: Policy and Planning Issues

- Venue Room No. 2365, 2nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
- Time 9.00-10.30
- Chairman David Maynard
Director Education, British Council Bangladesh, Dhaka
- Co-Chairman Professor Dr. Md. Mamun-ur-Rashid
Department of Agricultural Extension and Rural Development
Patuakhali Science and Technology University, Bangladesh
- Rapporteur Dr. Md. Masud-All- Kamal
Department of Sociology, University of Chittagong, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

- ICES-A05 Media involvement in ensuring healthy environment: a thematic analysis at Bangladesh perspective
Mamunor Rashid and Sara Monami Hossain
- ICES-A32 Assessment of legal status regarding restoration of the biodiversity in Saint Martin Island, Bangladesh

	Khan Md. Arman Shovon, Mohammad Abdul Hannan and Md. Redwanur Rahman
ICES-A40	Effectiveness of banning plastic bag in Bangladesh for environmental protection Ifthear Hossen Shawon, Mohammed Ziaul Haider and Fahmida Akter Oni
ICES-A42	Impacts of water management on greenhouse gas emissions from rice cultivation in Bangladesh S.M. Mofijul Islam, Yam Kanta Gaihre, Md. Rafiqul Islam, Upendra Singh and Bjoern Ole Sander
ICES-A61	Prospect and profitability of selected vegetables cultivation in sack under waterlogged condition Md. Abdul Mannan
ICES-A81	Ecosystem and water governance: perspective from national water policy 1999 Mohammad Alamgir, Chemon Humayra Tasneema and A.S.M Sayem
ICES-A111	Identifying safe drinking water sources following the sustainable development goal 6 in Batiaghata union, Southwest Bangladesh Md. Shamim Biswas and Rabeya Sultana
ICES-A115	Design and modeling of solar photovoltaic systems for marine vessels Mahbuba Redowan Asha and Md. Abdullah-Al-Mahbub

Technical Session-4C: GIS and Remote Sensing

Venue	Room No. 2367, 2 nd Floor, Acharya Jagadish Chandra Bose Academic Building, Khulna University
Time	9.00-10.30
Chairman	Professor Dr. M Rakib Uddin Environmental Science Discipline, Khulna University, Bangladesh
Co-Chairman	Dr. Abu Reza Md. Towfiqul Islam, Head, Department of Disaster Management, Begum Rokeya University, Rangpur, Bangladesh
Rapporteur	Md. Esraz-Ul Zannat, Department of Urban and Rural Planning, Khulna University of Engineering and Technology, Bangladesh

Presentation duration 8 minutes and discussion 2 minutes for each presentation

ICES-A39	Geospatial characterization of groundwater for water resource management in Khyrasol block, Birbhum district West Bengal India using remote sensing and GIS Sujit Das
CES-A41	Quantifying the ecological stress of urbanization in a million-plus city of Eastern India Pathik Ankur and Krishnendu Gupta
ICES-A54	Exploring spatial dynamics of cropland and land-use/land cover change using geo-spatial and landscape statistics Sabir Hossain Molla and Rukhsana Sarkar

ICES-A58	Pro-environmental behaviour in agriculture: mapping knowledge domain through bibliometric and text mining Mehedi Hasan Ifti, Chowdhury Noushin Novera, Toan Luu Duc Huynh, Esra Sipahi Döngül and Md. Abul Kalam Azad
ICES-A59	Groundwater scarcity and delineation of artificial recharge sites in Barind tract, Bangladesh: adaptation measures using multi-criteria decision making (MCDM) technique in GIS environment Md. Towhidul Hasan, Chowdhury Sarwar Jahan, Md. Ferozur Rahaman and Quamrul Hasan Mazumder
ICES-A69	Quantitative analysis and modeling of groundwater using visual modflow: a study on coal mine area, Dinajpur, Bangladesh M. Selimul Hasnain Khan and Md. Emdadul Haque
ICES-A93	Assessment of multipurpose cyclone shelters in Cox's Bazar district using GIS and community consultation Md. Mahjib Hossain, Jarin Tasnim Oyshi, Mir Tanvir Al Biruni, Sharmin Nahar Nipa, Md. Samiullah, Mohaimin Ul Kabir, Roufa Khanam and Ainun Nishat
ICES-A97	Demographic determinants of disaster preparedness behavior amongst the community inhabiting in South-west coastal Bangladesh Shahana Akter and Md Mujibor Rahman
Tea Break	10.30-10.45

Valedictory Session

Day 2- Sunday (February 20, 2022)

Venue	Journalist Liakat Ali Auditorium, Acharya Jagadish Chandra Bose Academic Building, Khulna University
11.00	National Anthem, Presenting bouquet of flower
11.10	Recommendation of the conference Professor Dr. Abdullah Harun Chowdhury Organizing Secretary, 1st International Conference on Environment, 2022 and Head, Environmental Science Discipline, Khulna University
11.20	Address by the Guest of Honor Professor Khan Golam Quddus Dean, Life Science School, Khulna University

- 11.25 Address by the Special Guest
Professor Dr. Mosumath Hosna Ara
Honorable Pro-Vice Chancellor, Khulna University
- 11.35 Crest distribution among the Best Presenter of all the Technical Sessions
- 11.45 Address by the Chief Patron
Professor Dr. Mahmood Hossain
Honorable Vice Chancellor, Khulna University and
Chief Patron, 1st International Conference on Environment
- 11.55 Address by the Chief Guest
Begum Habibun Nahar, MP
Deputy Minister, Ministry of Environment, Forest and Climate Change
Government of the People's Republic of Bangladesh
- 12.05 Concluding Speech by the Chair
Professor Dr. Dilip Kumar Datta
Convener, 1st International Conference on Environment

Field Trip in a Mangrove Ecosystem (The World Heritage Site and Climate Affected Area)--Optional--Will be depending on COVID situation

- 12.30-14.30 Khulna University Campus to Mongla trip by bus
- 14.30-15.15 Mongla to Karamjol/ Joymonirghol trip by launch/Boat
- 17.30-18.15 Return to Mongla from Karamjal/Joymonirghol by Launch/Boat
- 18.30-20.00 Return to Khulna from Mongla by bus