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Summer Field School [Online] on
MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT
Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

DELEGATE PARTICIPANT'S PROFILE

	**Dr. Sumon Ganguli** *Associate Professor & Ex-Chairman* Department of Applied Chemistry and Chemical Engineering Faculty of Science, University of Chittagong (CU) & PI, Biomaterials Research Laboratory, ACCE, CU *Addition Director*, Institutional Quality Assurance Cell (IQAC), CU Chittagong-4331, Bangladesh Tel: +88-01757-808239 Email: sumonganguli@yahoo.com, sumonganguli@cu.ac.bd
Highest Education	Ph.D. (Material Science)
Personal Statement	Dear august colleagues, I would like to say a few words in order to present myself as the delegate participant for the forthcoming Summer School on 'Mountain Ecosystems and Resource Management'. I am working as an Associate Professor of the Department of Applied Chemistry and Chemical Engineering (ACCE), University of Chittagong (CU) where I have been a faculty member since 2012. I worked as the Head of the Department of Applied Chemistry and Chemical Engineering, CU from 2018 to 2021. At present, I am also working as an Additional Director of the Institutional Quality Assurance Cell (IQAC), CU. Moreover, I am a member of the Library Management Committee of CU. I obtained M.Sc. from Islamic University, Kushtia, Bangladesh (2005) and earned my PhD in Engineering, Department of Material Science, University of Tsukuba, Japan at 2011. I have total of 32 research publications to my account in peer-reviewed journals and scientific conferences. I was awarded Japanese Govt. Scholarship (2007) as well as obtained DST fellowship (2020) of India. Besides, I have 14 projects that are running, and others five have been completed. My field of interest includes- Bio-Polymers, Enzyme Chemistry, Material Chemistry and Nano-Chemistry, Green Synthesis, and Environmental Education giving the importance of water quality. I established Biomaterial Research Laboratory (BRL) at the Department which

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	was financed by the Ministry of Education (MoE), Bangladesh (2015-2018). I am also the Principal Investigator of the laboratory. My group has research collaboration (2019-2021) with the QAEHS, The University of Queensland, Australia and others. I worked (2019-2020) as an Editorial Board member of the Chittagong University Journal of Sciences (CUJS). I am a Life Member of Bangladesh Chemical Society (BCS), and Bangladesh Society of Biochemistry and Molecular Biology (BSBMB). Furthermore, I am also a general member of Bangladesh Nano Society (BNS). I attended an intensive training program on 'Supply chain security in the pharmaceutical industry" jointly sponsored by CSIR-NEIST (Assam, India), CSIR-CLRI (Chennai, India) and PNNL (WA, USA), USDA-CSP (Washington DC, USA), CRDF Global (Arlington, USA) at 2020. At 2021, I was trained on Chemical Safety and Security in Bangladesh, jointly arranged by USDA-CSP (Washington DC, USA), CRDF Global (Arlington, USA) and BUET, Bangladesh. I am also involved in various social activities. I am a founder president of the Cultural Society of Chittagong University (CSCU) and an active member of Bangabondhu Parisad, Chittagong District.
Paper/Presentation Title (Unpublished Research or Review or Field Work)	*Groundwater Pollution in Bangladesh: A Review*
Keywords	Groundwater pollution; Physico-chemical; Trace Metals; Bacteriological; Pesticides; Health risk; Bangladesh
Abstract (100-300 words)	Groundwater is the main source for drinking and irrigation purposes in Bangladesh. However, groundwater is polluted continuously which is the main obstacles. Now-a-days, Bangladesh is moving towards industrial revolution in a considerable speed. To illustrate the total scenario of the groundwater pollution in Bangladesh specially in the last two decades, about eighty articles, conference articles and reports published in national and international journals, books have been reviewed in this paper and also discussed on pollution sources, health impact assessment and future perspective. Different factors such as physico-chemicals, trace metals, microorganisms and pesticides are responsible for groundwater pollution. Among them arsenic (As) contamination is one o the big threat for human health. Carcinogenic and non-

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	carcinogenic risk through oral ingestion of water was substantially increased. On the other hand, a large number of peoples were affected due to waterborne diseases governed by microbial contamination. Geogenic and anthropogenic sources, height of well and geographical factors might affect the groundwater for pollution. Anthropogenic sources like untreated industrial effluent, hospital and pharmaceutical waste, domestic waste and agricultural activities are the main influencer to generate pollution in groundwater. Policy makers should consider this issue immediately and take precautionary steps.
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