

GlobalSeaweedSTAR Capacity Building Fund Completion Report

Awardee Details

Grant reference ID	GSS/CBF/016
Full name/title	Prof. Dr. Md. Nazrul Islam
Position held	Professor
Organisation	Department of Geography and Environment, Jahangirnagar University, Bangladesh



Details of Capacity-Building Activity

Name of activity	As an oral presenter and Co-chair in the session of Ecology The 7th Conference of International Society For Applied Phycology (ISAP2021) virtual Tsukuba, Ibaraki, 305-8572, Japan from May 14 to 13 August, 2021 virtual platform to organize by the trust a scientific team of Algae Biomass and Energy System R&D Center (ABES), University of Tsukuba; 1-1-1 Tennodai; Tsukuba, Ibaraki, 305-8572, Japan, euglena Co., and Algae Industry Incubation Consortium (AIC), Japan
Date held	May 14 to 13 August, 2021 virtual platform in Japan
Organiser/provider	Local Organizing Committee of ISAP2021 Algae Biomass and Energy System R&D Center University of Tsukuba; 1-1-1 Tennodai; Tsukuba, Ibaraki, 305-8572, Japan

Biography

Prof. Dr. Md. Nazrul Islam is a permanent professor at the Department of Geography and Environment in Jahangirnagar University, Savar, Dhaka-1342, Bangladesh. Prof. Nazrul research interests are environmental modeling of climate change impact on aquatic ecosystem, harmful algae bloom and transition, aquaculture and seaweed cultivation with hydrodynamic ecosystems coupled model on coastal seas, bays and estuaries for numerical simulation modeling etc. Prof. Nazrul did his Ph.D. from the University of Tokyo, Japan. Besides, he has completed Two Years Standard JSPS Postdoctoral Research Fellow from the University of Tokyo, Japan. He has also visited as a speaker in several foreign Universities of Japan, USA, Australia, UK, Canada, China, South Korea, Germany, France, the Netherlands, Taiwan, Malaysia, Singapore and Vietnam etc. Dr. Islam has been awarded “Best Young Researcher Award 2012” by the International Society of Ecological Modelling (ISEM) for the outstanding contribution to the Ecological Modelling fields and he has also been awarded “Best Paper Presenter Award” entitled ‘Cyanobacteria Bloom and Toxicity of Lake Kasumigaura in Japan’ by SautaiN in Kyoto, Japan. He has made more than 40 scholarly presentations in more than 20 countries around the world, authored more than 125 peer-reviewed articles and authors of 15 books and research volumes. Currently Dr. Nazrul has already been published an excellent textbook entitled “Environmental Management of Marine Ecosystems” jointly with Prof. Sven Erik Jorgensen by the CRC press (Taylor & Francis). Prof. Nazrul is currently serving as an “Executive Editor-in-Chief” of the journal “Modeling Earth Systems and Environment”, Springer International Publications (Journal no. 40808). E-mail: nazrul_geo@juniv.edu

Report on Capacity-Building Activity

The 7th Conference of International Society for Applied Phycology (ISAP2021) virtual Tsukuba, Ibaraki, 305-8572, Japan from May 14 to 13 August, 2021 virtual platform and the Supporting Organizations (SO) such as Algae Biomass and Energy System R&D Center, University of Tsukuba (ABES) and Algae Industry Incubation Consortium Japan (AIIC). The conference has provided us the many attention to the strategic importance of knowledge and institutional capacity for policy, operational practice and education on huge phycological diversity and the diversity of its biotechnological applications through the prism of a new and promising industrial sector in full development. This is urgently needed to address the current and growing challenges in water management for a sustainable, secure, just and equitable world. The online event has brought together scholars, decision-makers and practitioners to discuss the current and future role of capacity development and take a forward-looking and action-orientated approach. This successful conference brought in more than 500 delegates from more than 30 countries. The 7th ISAP highlights traditional, modern and future algae industries in Japan and other countries, from which all humankind reap benefits. This is required to identify priority capacity development subjects and projects that increase resilience, equity and traditional, modern and future algae and seaweeds industries by water themes, geographical areas, policy and implementation issues and education.

In this conference, I have presented an oral talk on my research finding entitled “Numerical Modelling on the Transition of Toxic Algae Production in a Nutrients Limited Conditions in a Eutrophic Lake in Japan’. As you know that Bangladesh is an overpopulated country and we depend on our land for food source. To reduce the pressure on land and also to make different source of food we need to search for alternative sources like ocean based food like seaweeds and seafood ensuring food security in Bangladesh. Moreover, we are not used to eat seaweed which can be a great source of nutrition. Besides good export potentials, introduction of seaweed culture in the country's coastal areas could be a great alternative option for the people's sources of income. Many edible seaweed species are available on the coast of Bay of Bengal. You will be glad to know that I have received many guidelines and suggestions through this ISAP 2021 conference. Gathering many inside knowledge and experience it would be very helpful to enrich my future algae and seaweeds oriented research and project in Bangladesh, South Asia and as a globally.

I honored to serve as a Co-chair at the Online presentation, Live Q & A and Discussion Session held by Zoom Webinar with the details Session Title in Ecology, LIVE Group-1, Date: July 7, (Wed) Time:18:00-19:00(JST), 09:00-10:00(UTC); Preparatory Meeting: 17:30-18:00 (JST), 8:30-9:00 (UCT) You will be glad to know that the roles of the Co-chair were (i) to ensure that every group members to speak, (ii) to ensure as much as participants to ask questions to the group members, and (iii) to bring in questions or discussion points in order to make the session even more interesting. I have also evaluated of Young Scientist presentations for the Young Scientist Awards.