UNITED RESEARCH FORUM
(CONNECT WITH RESEARCH WORLD)

International E-Conference on

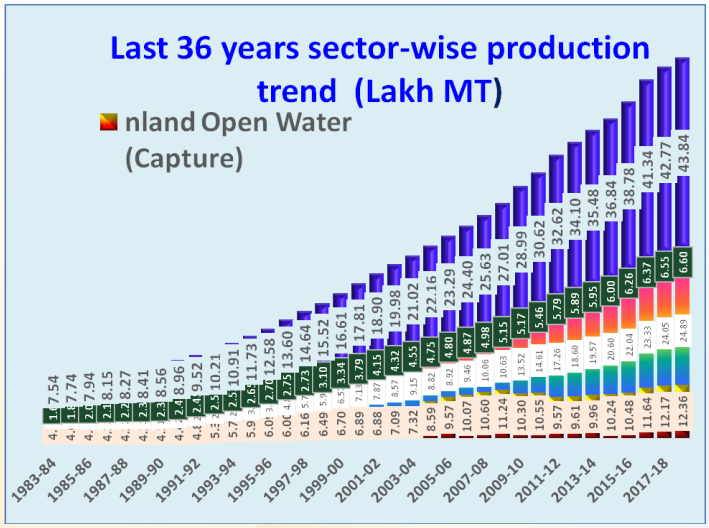
AQUACULTURE AND MARINE BIOLOGY

April 12-13, 2021 I Webinar

Sustainable Aquaculture and Fisheries Management of Bangladesh

Dr. Binay Kumar Chakraborty
Consultant and Researcher, Former P. Director, Department of Fisheries, Bangladesh

It is expected that World population will be grown from 6.9 bil. to 9.0 bil. and Global cereal demand to feed such population will grow from 2.1 bil.ton to 3.0 bil.ton in 2050 (FAO, 2009). Accordingly the population of Bangladesh will be risen up and would be a great challenge to secure the food security and quality food, safeguarding the environment and socioeconomic development of this increased population. Bangladesh has an inland water area of about 45,000 km^2 and about 710 km long coastal belt. Fish alone supply a per capita fish consumption of 62.58 g/day in our daily dietary requirement. The total fish production was reached up to 4.384 mill.mt in 2018-19. Overall growth rate of total fish production in 2018-19 is 2.52%. Increase focus on research development, secure ecosystem balance and innovation using both modern and traditional technology would be needed for a sustainable aquaculture technology to grow more fish utilizing all resources available in the country. In Bangladesh, some important technology like as Polycultutre of Indian major carps, Pangas, Tilapia, aquaculture of pabda, Gulsa, Tengra, Koi, Shing, Magur, mola etc. and Hilsa fisheries management, Beel nursery, Fish habitat rehabilitation, Fish centaury, Breeding ground conservation and Pen culture in river has been practiced to increase the production of fish. A sustainable aquaculture technology would be needed to develop breeding and genetics, quality brood, seed, feed and pollution free water. A good aquaculture practice (GAD) is implemented to control using of potential impacts on public health risks chemical, biological and emerging agents. A major challenge would be faced by numerous natural and anthropogenic causes such as climate change, natural disasters, industrialization, over fishing and environmental pollution to overcome for a sustainable aquaculture development. During the presentation a model of sustainable aquaculture and major challenges in development of aquaculture will be addressed and highlighted.



Biography:

Dr. Binay Kumar Chakraborty is a Fisheries Scientist and Consultant in the Department of Fisheries, Bangladesh. A leading Fisheries Biologist, Dr. Chakraborty has been involved for a long period in many studies and worked in the Department of Fisheries, Bangladesh. He has played an important key role as a researcher and extension worker especially in the field of mud eel and mud crab, and Aquaculture and fisheries management field. He has obtained PhD degree in 2004. In 1997, he has completed a special degree on planning in the Swansea University, Wales, UK. He has been acting as a reviewer more than 12 different international journals and editorial board member of International Journal of Oceanography & Aquaculture, Asian Biological Research Foundation (ABRF) and International journal of Advanced Academic study. He is also Life Member of the more than 12 national and international Societies. He has attended in the International Seminars of UK, Philippine, Vietnam, China, Malaysia, Italy, Oman, Thailand, India, Nepal and Bhutan. Gloval Environment and Social Association and International foundation of Environment and Ecology, India awarded him two times as a ”Life Time Award Achievement - 2020” and International academy of Science and Research, India, presented him as a ”Scientist of the Year 2018 Award”. He has received award of fellowship 2019, from Asian Biological Foundation, India; Fellow Award 2010 of the Crop and Weed Science Society, Bidhan Chandra Krishi Biswabidyaloya, India; Award of Fellowship, 2007, from the Zoological Society, Calcutta University, India and other organizations. About 15 books and 60 scientific papers are published by national and international publishers and organizations