

## Report on the 2<sup>nd</sup> International Conference on “Frontiers in Biological, Environmental and Medical Science (FBEMS)” held on March 07-09, 2019

The 2<sup>nd</sup> International Conference on “Frontiers in Biological, Environmental and Medical Science (FBEMS)” was held on March 07-09, 2019. The conference was organized by the University of Burdwan under the aegis of DST-PURSE Phase 2 Programme. Looking into the spectacular growth in biological sciences, this conference was aimed



at familiarizing the researchers and students with the cutting-edge research in biological, environmental, medical sciences i.e **Frontiers in Biological, Environmental and Medical Sciences: (FBEMS-2019) on Special Theme - Nanoscience and Nanotechnology**. This provided an excellent opportunity to science students, research scholars to interact, exchange information with eminent personalities on nanoscience from academic and industry. Moreover, the conference provided a platform for future collaborations to adopt solutions for the practical challenges encountered. Scientists and researchers from various universities and research organizations enlightened the delegates with their novel findings that would help to reassess the existing understanding and knowledge. The programme was formally inaugurated by Prof. N.C.Saha, Hon’ble Vice Chancellor, the University of Burdwan in the DDE Auditorium, in presence of august dignitaries, scientists,

faculty members, research scholars and students. Customarily the conference proceedings were segregated into Day 1 (March 07): Registration, Inauguration, Plenary lectures (PL) - two, Invited lecturers (IL) - four, Oral sessions (OS) - two, Poster sessions (PS) – one; Day 2 (March 08): Invited lecturers - seven, Oral sessions - two, Poster sessions – one, cultural programme; Day 3 (March 09): Invited lecturers - five, meet the scientists, valedictory session. The theme categories of the conference were: (1). Bioactive natural products and medicinal chemistry (NPC), (2). Biodiversity, climate change and environmental sustainability, management and morality (BCS), (3). Environmental Public Health, physiology and biomedicine (PPB), (4). Fisheries, Aquaculture and Blue economy (FAE), (5). Genomics, Proteomics and metabolic (GPM), (6). Mathematics in nanoscience and



nanotechnology, mathematical applications, statistics and computation (MNS), (7). Molecular regulation and cellular signaling (MRS), Organismal interactions: microbes, parasites and Host (MPH), (8). Spatial Informatics: Bio-resources and GIS (IBG). The number of oral presentations considered under various categories were: NPC – 10, BCS – 07, PPB – 03, FAE – 02, GPM – 07, MPH - 02, IBG – 03, MNS – 10;

Number of poster presentations under various categories were: NPC – 11, BCS – 08, PPB – 10, FAE – 13, GPM – 03, MPH - 08, IBG – 0, MNS – 17; MRS – 04. The number of registered participants was 162. The oral and poster sessions were evaluated by distinguished Chairpersons. All together the sessions number of chairpersons were thirty two. The special theme based deliberations was made by the following speakers: Prof. E. Zangrando, University of



Trieste, Italy on the use of Synchrotron Radiation in Crystallography; Prof. N. Das, CSIR-IICB, Kolkata on Nanocapsule against Fluoride toxicity; Dr P. Swain, ICAR-CIFA, Bhubaneswar on Ethical Application of Nanotechnology ; Dr A. De, Tata Memorial Centre, ACTREC, Navi Mumbai on Cancer Nanotherapeutics; Prof. A.T. Khan, IIT,



Guwahati on organic synthesis using nano-catalyst ; Dr B. Sarkar, ICAR-IIAB, Ranchi on Silver Nanoparticles in Aquaculture Research; and Prof. D. Chattopadhyay, Vice Chancellor, Amity University, Kolkata, on Wonders of Nano

Technology & Biosciences. On broad theme of the conference the eminent speakers were as: Prof. S. Bhattacharyya, Emeritus Professor, Visva-Bharati, on Insulin Resistance and Type 2 Diabetes; Prof. L. C. Tribedi, TIFR, Mumbai on Fast Ion interactions with large DNA/RNA Bases and Water at Bragg Peak Energy ;Prof. R. Pal IACS, Kolkata, on Computational Model For Spindle Formation ; Prof. S.K. Dey , Vice Chancellor, Brainware University, Kolkata, on Genetics of Down's Syndrome; Prof. A. Kaviraj, University of Kalyani, on Pattern of Toxicity and Bioaccumulation of Heavy Metals in Aquatic Ecosystem; Prof. A. S. Ninawe, Ex-Advisor, Department of Biotechnology, Govt. of India, Blue Economy; Prof. B. N. Pandey Magadh University, Bodh Gaya, The Message From Water; Dr A. K. Sanyal , Chairman, West Bengal Biodiversity Board, Kolkata, on Biodiversity; Dr A. K. Hazra, Former Joint Director, ZSI, Kolkata, on the Biodiversity Conservation, Environmental Sustainability; and finally Prof. K. C. Pandey, Lucknow University, on Reflections on Environmental Ethics;



About 120 registered participants presented their results either in oral or poster mode. Besides a session designated as “meet the scientists” was also arranged. Students from neighboring schools participated and interacted with eminent scientists. To summarize the time duration (in minutes) spent in the conference was as follows: Plenary Lectures & Invited Lectures –

190+260+175= 625; Oral Session & Poster session – 120+120=240 (parallel); meet the scientists – 90 minutes.



Moreover, the conference provided a platform for future collaborations to adopt solutions for the practical challenges encountered. Scientists and researchers from various universities and research



organizations enlightened the delegates with their novel findings that would help to reassess the existing understanding the scientific gaps and knowledge base. The conference ended on a positive note with due acknowledgement to DST-PURSE and to the authorities of the University of Burdwan for scientific and logistics support.