An International Conference on “Advances in Sustainable Agriculture: Bioresources, Biotechnology and Bioeconomy” was organised on November 29 and 30, 2019 at Bhopal, Madhya Pradesh. The International Conference was jointly organized by the Mansarovar Global University, Bhopal and the PHSS Foundation for Science & Society, Lucknow.

The inaugural function was presided over by the Chief Guest, Dr Manju Sharma, NASI-DST Women Distinguished Scientist Chair and former Secretary, Department of Biotechnology, Government of India.
Mr. Gaurav Tiwari, Pro-Chancellor of Mansarovar Global University welcomed the dignitaries and participants. In his welcome address he said that the Indian scientific community has great responsibility in ensuring the food and nutritional security of the country and at the same time contributing to the welfare of the farming community. Poverty and hunger need to be alleviated at war footing. Welcoming the delegates, Professor Arun Kumar Pandey, Vice-Chancellor, Mansarovar Global University, emphasized that India has robust farming communities and traditions, but they need technological inputs for higher crop yield, control of pests and pathogens, post-harvest storage, transportation and marketing. Molecular and biotechnological tools should also be pressed into service for achieving crop yields comparable to developed countries. Wise use of water and reduced dependence on pesticides are also important for sustainable agriculture.

In the inaugural session, Prof. R.P. Singh, Secretary General of PHSS Foundation highlighted the objectives and functioning of the
foundation and announced the Conferment of Lifetime Achievement Award on Dr. Manju Sharma. Five other scientists received awards for excellence in their fields of scientific activity. Prof. P.K. Seth, President, PHSS Foundation gave a brief background of the Young Scientist Conclave and emphasised the need for utilizing the biotechnological techniques for crop improvement.

Dr Manju Sharma delivered the inaugural address and acceptance speech for Lifetime Achievement Award. She said that for Indian Agriculture to be sustainable we need to take care of soil, water, biodiversity and quality of human life. She threw light on the recent trends in agriculture and emphasised that there is a need for enriching the rural economy and enhance farmer’s income. The problem of hunger and malnutrition should be solved through crop diversification, improved varieties and environment-friendly methods of cultivation. Farmers deserve help in profitable marketing of their produce. Dr Sharma also stated that greater involvement of women in science is essential, as women are more sensitive to environmental and human needs.

Invited lectures were delivered by Prof. Marcio J. Pocas-Fonseca (University of Brasilia, Brazil), Prof. N. Raghuram (GGS Indraprashtha University, New Delhi), Dr R.D. Tripathi (CSIR-National Botanical Research Institute, Lucknow), Prof. Naveen Kumar Arora (Babasaheb Bhimrao Ambedkar University, Lucknow), Prof. Renu Deswal (University of Delhi), Prof. S.M. Paul Khurana (Amity University, Haryana), Dr M.K. Tripathi (ICAR- CIAE, Bhopal), Dr Girish Mishra (University of Delhi), Prof. V.N. Pandey (DDU Gorakhpur University, Gorakhpur), Prof. C. Rajasekaran (Vellore Institute of Technology,
PHSS Foundation Award lectures were delivered by Prof. R.C. Chaudhary (PRDF, Gorakhpur) and Dr Purabi Saikia (Central University of Jharkhand, Ranchi). Dr Ulrich Berk from Germany presented scientific evidence on how homo organic farming (Agnihotra) helped in improving air quality and in enhancing crop yields through improved soil quality and optimal water use. The major thematic areas covered during the conference were: 1. Bioresources and Biodiversity, 2. Plant Tissue Culture and Transgenic Technology, 3. Plants and Biotic stresses/Plant-Microbe Interactions, 4. Plant Genetics and Breeding, 5. Agro-product processing and entrepreneurship and 6. Impact of Climate Change on Agriculture.

A Young Scientist Conclave was organised on the second day of the conference. Dr P.K. Singh (CSIR-National Botanical Research Institute,
Lucknow) delivered lead lecture and highlighted the work being done on developing cotton varieties resistant to white fly that cause viral diseases. His lecture was followed by presentations of the young scientists on molecular and biotechnological aspects of crop improvement which have the potential to revolutionize agriculture in India. Besides oral presentations, poster session was also organised. Many of the presentations generated lively discussions.

At the valedictory function on second day of the conference, Mr. Gaurav Tiwari said that agriculture is the backbone of Indian economy and over 50% of our people depend on it for their livelihood. He called upon the scientists to combine traditional practices and modern technology for developing crops that would help achieve higher productivity. In his valedictory remarks, Prof. P.K. Seth suggested that India, being one of the richest countries of the world in biodiversity, is uniquely positioned to harness the potential of bio-based economy. There is an urgent need to take appropriate measures to make India a bioresource-based economy that would help achieve economic and environmental sustainability in both rural and urban areas. Prof. Arun Pandey emphasized that application of biotechnology would be crucial for crop improvement in India. Food that we produce should be more nutritious and farmers should earn more for their produce. There should be active participation of growers, distributors, retailers, consumers and waste managers who play a major role in ensuring a sustainable agricultural system.

A total of 130 delegates from across the country and abroad participated. The conference provided an opportunity to the participants to exchange their views and share their ideas for promoting sustainable use of bioresources, use of biotechnology in crop improvement and bioeconomy.
This Conference was sponsored by the National Academy of Sciences, India and NASI (Bhopal Chapter). The certificate to the winners of young scientist award were distributed by the dignitaries on the dais.
An International Conference jointly organized by Assam Agriculture University, Jorhat and PHSS Foundation, Lucknow on Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018)

Prof. H.S.Srivastava Foundation for Science and Society and Assam Agriculture University, Jorhat jointly organized an International Conference on "Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018) " during 13-16 December, 2018 at AAU, Jorhat (Assam). The Conference was attended by more than 1000 participants from various countries including India, Bangladesh, Nepal, Phillippines, African Countries, Europe and USA etc. Total 24 technical session including Young Scientist Conclave were organized successfully. The Conference recommended for conservation of terrestrial and aquatic ecosystems as well as a fast incorporation of adaptation, mitigation and resilience measures to cope with climate change related to crisis towards sustainable development.
During ICPEP-6 on 29 November 2018, one special session devoted to Prof. H.S. Srivastava Foundation for Science and Society (PHSSFSS) was also organized and Prof. Albert Reif from University of Freiburg, Germany delivered the Prof. H.S. Srivastava Memorial Lecture. He was felicitated with the PHSSFSS Medal for his contribution in the area of forest ecosystem management.

Prof. R.P. Singh facilitating Prof. H.S. Srivastava Memorial Lecture Award to Prof. Albert Reif

(L-R) Prof. R.S. Tripathi, Prof. Albert Reif, Prof. S.K. Barik, Prof. R.D. Tripathi and Prof. R.P. Singh
World Environment Day celebrated at BB Ambedkar University, Lucknow on 5th June, 2018
National Conference held at JNU, New Delhi (23-24 March, 2018)
During ICPEP-5 on 25 February 2015, one special session devoted to Prof. H. S. Srivastava Foundation for Science and Society was also organized and Prof. Hendrik Kupper, Biology Center of the Czeck Academy of Sciences, delivered the Prof. H. S. Srivastava Memorial lecture.

Dr. P.V. Sane presenting Prof. H.S. Srivastava Memorial Lecture Award to Prof. Hendrik Kupper

L-R: Prof. Hendrik Kupper, Prof. P.V. Sane, Prof. R.P. Singh and Dr. S.N. Jena
Office Inauguration at Eldeco Xpress Plaza on 2\textsuperscript{nd} April, 2016
PHSS memorial lecture during National Conference on ‘Strategies in Plant Physiological Research for meeting Challenges in Agriculture’ (NCPPBHU2016) was held on March 3-5, 2016 at BHU, Varanasi.

The lecture on aforesaid topic was delivered by an eminent plant molecular biologist Prof. S.K. Sopory, Former V.C, Jawahar Lal Nehru University, New Delhi. Prof. A. Narayanan was the Chairman of the Memorial Lecture Session.
National Conference at BB Ambedkar University, Lucknow: 23-24, November 2015

Report

Climate Change Conference, CCSD-2015

The Green and Renewable Energy Technologies, Resilient Ecosystems and Ecological Agriculture can help to achieve climate adaptation and mitigation goals.

RanaPratap Singh
Convenor, CCSD-2015

The National Conference Climate Change and Sustainable Development; emerging Issues and Mitigation Strategies (CCSD-2015), held at BBA University, Lucknow on 23rd – 24th November, 2015. There are strong evidence over the past few decades that enhanced atmospheric CO₂ up to more than 400 lemol, the global warming is severely impacting food production, marine fisheries, corals, glaciers, aquatic, hilly and terrestrial ecosystems. The enormous human population shift, human activities, industrialization and burning of fossil fuel and indiscriminate use of natural resources has created the climate crisis with various general and specific problems at global as well as local levels.

About 250 academicians, scientist, professions, young researchers and students from different part of the country and abroad deliberated two days from morning to evening during the different technical sessions and three thematic symposia on climate change and plants, green technology entrepreneurship, green building; environmental clearance, appraisal mechanisms. Environmental compliance, software development and CESR Guidelines, and policy and practices of sustainable agriculture and climate change management.

A separate award session for Prof. H.S. Srivastava Foundation Awardees was held and a young scientist’s conclave was organized to give young researchers of up to 40 years to present their ideas and works on the understanding of current climate crisis and strategies for its management at global, national, regional and local levels.

The conference was inaugurated by Magsaysay and Stockholm Water Proze Awardee Jalpurus Dr. Rajendra Singh along with other dignitaries like Professor K. Raja Reddy, a climate modeling expert from Mississippi State University, USA, Dr. P.K. Seth, Former Director, IITR and Former CEO, Biotech Park, Dr. D.C. Uprety, Former Emeritus Scientist, IARI, New Delhi, Prof. N. Raghuram, Dean, School of Biotechnology, Guru Govind Singh Indraprastha University, New Delhi and Dr. Ram Lakhan Singh, Former Principal Conservator of Forest UP and distinguished wild life expert.

Dr. Rajendra Singh advocated to strengthen the climate change adaptation and mitigation strategies by involving the local communities at large scale exemplifying the work on water conservation in deserts of Rajasthan by Tarun Bharat Sangh under his leadership. The Guest of honour Professor K. Raja Reddy spoke on significance and insight his work on climate modeling to plan the policies and practices of adaptation and mitigation. Dr. Ram Lakhan Singh shared his expertise and vision on role of biodiversity and emerging technologies in climate change management. The inaugural session was jointly chaired by Dr. P.K. Seth, President PHSS Foundation and Dr. D.C. Uprety, President, The Society for Science of Climate Change and Sustainable Environment. Life Time Achievement Award of Prof. H.S.
Srivastava Foundation, Prof. A. S. Raghvendra of Hyderabad University presented his work on photorespiration in plants as an essential adaptation to oxidative stress.

PHSS Foundation, Social Contribution Awardee Dr. Rakesh Pandey of CIMAP, Lucknow presented the importance of *Trichoderma* in Sustainable Agriculture. The young scientist awardee, Dr. Amit Mishra of IIT Jodhpur, Dr. Priti Tripathi of Lucknow University and Dr. Rahul Kumar Singh of BHU also presented their work.

The afternoon session on climate change and emerging issues was chaired by Prof. S.R. Singh, Former Vice Chancellor, R A University, Samastipur, and Prof. K. Raja Reddy (Mississippi, USA), Prof. M.H. Fulekar (CUG, Gandhinagar), Prof. Uday Mohan (K.G. Medical University, Lucknow), and Dr. Arpita Mohan presented on the significant challenges on climate change in Agriculture, Ecosystem Management and Health Sectors.

The last session of 1st day was chaired by Professor R.S. Tripathi, Emeritus Scientist, CSIR-NBRI, Lucknow and Co-chaired by Dr. Ram Lakhan Singh, Former PCCF, UP, Dr. D.C. Uprety and Prof. NandulaRaghuRam of Delhi, Prof. M.N.V. Prasad of HU, Hyderabad, Dr. V.K. Singh, ICAR-CISH and Dr. K. Gopal, Secretary General, AEB, Lucknow were distinguished speakers of this keynote forum. A general body meeting of PHSS Foundation and to the Society for Science of Climate Change was organized subsequently on 23rd evening for organizational deliberations.

The second day of the conference observed many thematic symposia organized in different seminar halls and very exciting sessions like young scientist’s conclave. The various sessions and symposia were chaired and co-chaired by senior climate expert e.g. Dr. S.K. Bhargava, Former Deputy Director, IITR, Lucknow, Prof. Dinesh Abrol, Emeritus Scientist, Policy Centre, JNU, New Delhi, Prof. P.W. Ramteke (SHITAS, Allahabad), Prof. B.P. Mishra of Mizoram University, Aizwal, Prof. M.N.V. Prasad of Hyderabad University, Dr. S.C. Sharma, General Secretary, CGES, Sh. Mukesh Shukla, Director, SAMADHAN, Dr. N.K. Bajpai, Solar Energy Expert, and Dr. Sanjay Mishra, Advisor DST, New Delhi on deputation.

In thematic symposium climate change and plants, Prof. B.P. Mishra (Aizwal), Prof. P.W. Ramteke (Allahabad), Dr. Dinesh Yadav (Gorakhpur), Dr. S.C. Sharma and Dr. J.S. Singh (Lucknow presented their invited talks. The young scientist conclave, chaired by Prof. K. Raja Reddy (Mississippi) was a very exciting session in which 10 young scientists from various places of India presented their work on different aspects of climate change studies and honoured with medal for their presentations in order of ranking by the panel of judges.

The thematic symposium of Green Technology Entrepreneurship was chaired by Dr. N.C. Bajpai and lead lectures were delivered by Dr. Usha Bajpai of LU, Lucknow, Mr. Narendra Kumar and Mr. Ashu Dubey of SAMADHAN, Lucknow followed by presentations and discussions by others in a very vibrant session. The symposium Green Building was chaired by Dr. S.K. Bhargava, Former SEAC, UP Chairman, and Former DD, IITR, Lucknow.

A daylong symposium was organized on 24th November, 2015 on Policy and Practices of Sustainable Agriculture and Climate Change Management, which was chaired by Prof. Dinesh Abrol, Emeritus Scientist, Policy Centre, JNU, New Delhi. Dr. Yogesh Bandhu, (DBT-PRC-BBAU), Dr. A.K. Singh, GEAG, Gorakhpur, Prof. S. Nayak (BBA University, Lucknow), Dr. Amarnath Tripathi (IEG, New Delhi), Dr. Amitabh Mishra, GDS, Lucknow and Sh. Ram Kumar, DAG, Lucknow presented their talk. A large number of young scientists, Ph.D. and M.Sc. students deliberated and participated in the discussions in various sessions and presented their papers orally on in poster sessions.
The conference was organized by Department of Environmental Science, BBA University, Lucknow in collaboration with Professor H.S. Srivastava Foundation for Science and Society, The Society for Science of Climate Change and Sustainable Environment and DST-Policy Research Centre, BBA University, Lucknow. The financial support for the conference was received from BBA University, Lucknow, Department of Science and Technology (DST), New Delhi, Prof. H.S. Srivastava Foundation, Lucknow, SEARCH Foundation, Delhi, Paramarsh, Lucknow, Environment and Technology Research Centre, Lucknow and SAMADHAN, Lucknow.

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National Conference at Doon University, Dehradoon : 21-23 March, 2014
Misc. other’s Programmes