

# Conference on Climate Change Towards Health and Agricultural Sustainability (CCHAS- 2019)

February 18-20, 2019

Organized by



Department of Environmental Science & Engineering,  
Guru Jambheshwar University of Science & Technology,  
Hisar-125001, Haryana, India

In collaboration with



Society for Sustainable Agriculture & Resource  
Management (SSARM), Hisar, India

and



Indian Academy of Environmental Science  
(IAES), Haridwar

Sponsored by



human health in consonance with climate change would be utmost needed for food security and environmental sustainability. The judicious use of natural resources, application of advanced resources technologies to ensure plant, animal and human health through genetic and management options are important world wide for civic society. Environmental soundness as well as fragility is of utmost concern to all living beings especially under climate change as it determines the expression of potential productivity of crops, animals, microorganisms and human health particularly the reproductive patterns and abnormalities etc.

This calls for commensurate advances in environment, bio-medical sciences, nano-techno, pharmaceuticals, diagnostics and health care systems. This needs a blend of traditional ecological prudence with frontier technologies particularly environmental biotechnology, allied agri-environmental and medical sciences. Agricultural sustainability and good health are global concerns due to rapid global climate change. This can be achieved by infusing resilience to biotic and abiotic stresses, improved food and food quality using green energy and identifying environmental management solutions.

This International Conference entitled 'Climate Change towards Health and Agricultural Sustainability' is focused on various elements and their impacts on environment, agriculture, animal and human health. This conference sponsored by UGC, New Delhi will be organized by Department of Environmental Science & Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana, India in collaboration with Society for Sustainable Agriculture and Resource Management, Hisar, Haryana, India, OPERA India and International Epigenetic Network, Canada and Indian Academy of Environmental Science (IAES), Haridwar at beautiful campus of Guru Jambheshwar University of Science and Technology, Hisar. The organizing committee cordially invites you and your colleagues to participate in this event. We shall be glad to welcome you.

## ABOUT THE UNIVERSITY

The Guru Jambheshwar University of Science & Technology, Hisar, started its journey on October 20, 1995 under Haryana State Legislative Act No. 17 of 1995 at Hisar, Haryana, India to impart education on the frontier of technology, pharmacy, environmental science & engineering, non-conventional energy sources, mass media and management studies. The University was named after Guru Jambheshwar Ji Maharaj, a saint environmentalist of 15th century. The University is situated at 167 Kms from Delhi on Delhi-Rohilkhand National Highway (NH-10) in Hisar and at a distance of about 211 Kms from Chandigarh on NH-65. The university has been accredited 'A' Grade thrice by NAAC since 2002.

## ABOUT THE DEPARTMENT

The Department of Environmental Science & Engineering was established in 1995, with the conception of the Guru Jambheshwar University of Science & Technology, Hisar. The department caters the goal of the University enshrined in its preamble. The vision & mission of the department is pursuant for excellence to achieve sustainable development and to impart training for capacity building to tackle various environmental challenges in an eco-friendly manner.

The major thrust areas of research are wastewater treatment, environmental pollution monitoring & abatement, bioremediation, bio-energy, gen-microbiology, watershed management, eco-nanotechnology and environmental biotechnology. The department offers various courses viz.

- Ph.D (Environmental Science & Engineering)
- M.Tech (Environmental Science and Engineering)
- M.Tech (Geo-informatics)
- M.Sc (Environmental Sciences)

There are a number of R & D projects supported by various reputed agencies in the department. Students are provided with enabling ambience that promotes culture, sports, societal contributions, art, self-governance and human values.

## CONFERENCE THEMES

### Climate Change and Global Warming

- Climate change and carbon footprints
  - Technologies for mitigation of GHGs and global warming
  - Clean Development Mechanism (CDM)
  - Pollutant emission control and environmental protection
  - Environmental Management System (EMS)
- ### Green Technologies
- Biofuels
  - Fuel Cells
  - Bioremediation and Phytoremediation
  - Biomass Gasification, syngas characterization & applications
  - Energy Conversion Methods Hydro, wind, ocean, Hybrid power systems and recycling
  - Solar Energy Technologies and Solar Cells
  - Nanomaterials in Energy Technologies
  - Green Buildings and Alternative Materials
- ### Advanced Technology for Pollution Identification and Waste Management
- Waste Management
  - Air Pollution Monitoring and analysis
  - Wastewater Treatment Technologies
  - Nanomaterials in Waste Technologies

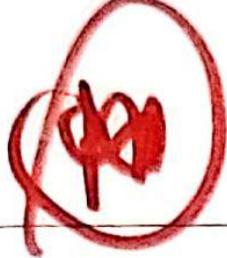
### Environment and Health

- Built Environment and Health (Mental and Physical)
- Urban Exposure and Epidemiology of Air pollution, noise, temperature, green space and biodiversity
- Nature based solutions and health
- Inequalities, environment and health
- Compact and Low carbon cities and health
- Pathways to healthy urban living
- Sustainable development goals and health

### Health in its environmental, cultural, economic and social contexts

### Agricultural Sustainability

- Water Management Techniques
- Organic farming, urban farming, vertical farming
- Agricultural waste management, composting and biochar
- Sources of soil contamination, agriculture and industrialization
- Climate change and increased agricultural ambiguity
- Effects of abiotic stresses on plant growth
- Food security in developing countries
- Impacts of climate change on Plant-microbe interactions, Nutrition, Quality and Resource use efficiency
- Innovative breeding practices



3	Analysis of Genetic and environmental risk factors for allergic asthma <i>Desh Deepak Singh</i>
4.	Nutritional status of pregnant women by preventing anaemia and obesity <i>Divya Sethi And Saroj Dahiya</i>
5.	Impact assessment of Acoustical environment (music therapy) on human health <i>Dr. Dinesh C. Sharma</i>
6.	Environmental factors that influence learning disability among children <i>Dr. Renu Bala and Dr. Sudha Chikkara</i>
7	Health and Sanitation Technology and their Impact on Health <i>Dr. Vandana Verma Sarita Verma and Ella Rani</i>
8.	Environmental assessment of residence time of aerosols using rainfall parameters in Sokoto, North Western Nigeria <i>Gado A.A, Abdullahi B.U, Gwani M and Mudassir N</i>
9.	Multiple instances of haematozoan in fresh water catfish <i>Heteropneustes Fossilis</i> (Bloch.) <i>Induja Mishra, B.D.Joshi, Namita Joshi &amp; Sandeep Singh Rawat</i>
10	Issues Related to Discrimination of Girl Child in rural Area <i>Jyoti Rani</i>
11.	Effect of co-digestion of different wastes on dehydrogenase and cellulase activity of microbial Consortia <i>Shikha Mehta, R.C. Anand and Kamla Malik</i>
12.	Agricultural Waste Management <i>Navdeep Godara</i>
13.	Agricultural waste management and its benefits <i>Nitin Goyal</i>
14.	Metal accumulation potential of <i>Solanum Nigrum</i> grown in soil incorporated with amf rich plant roots <i>Padma Sharma, Harminder P. Singh, and Daizy R. Batish</i>
15.	Preparation and characterization of salicylic acid nanoconjugates to combat heat stress in wheat ( <i>Triticum aestivum</i> L. Em. Thell) <i>Sonali Sangwan, Shikha Yashveer, Hembade Vivekanand Laxman, Rajesh Thakur and Vikram Kaliramma</i>

Date: 18/2/2019

17. Sharma, Dinesh C. and M. K. Mittal. (2012a). Proceeding of National Seminar on Environmental Development. Held at Govt. Girls P.G. College, Patchpur. 31-1-12.
18. Sharma, Dinesh C. and M.K. Mittal. (2012c). Impact of nano-technology on animal physiology for the maintenance of environment and biodiversity. National Seminar on Sustainable Environmental Development. 31-Jan-12:27-28.
19. Sharma, Dinesh C. and Mittal. K. Mittal. (2012d). Hemato-Biochemical impact of sounds on animal physiology for the maintenance of environment and biodiversity. "Status of environment and biodiversity: Rio+20 and role of space technology." Zoology and Environmental Science, Gurukul Kangri University, Haridwar on 2-3 Nov. 12.
20. Sharma, Dinesh C. and Mittal. K. Mittal. (2013e). Hemato-biochemical impact of Indian Science Congress-2013 held at Kolkata.3-7 Jan-13:65
21. Sharma, Dinesh C. (2013f) Impact assessment of pleasant environmental sounds on the hemato-biochemistry of human and albino rats. Section-New Biology. 100th Conference of Indian Science Congress (GHC 2013) held on 8th – 9th July 2013 in Singapore
22. Sharma, Dinesh C. (2013g). A study to determine the effectiveness of music therapy in the management of hypertension and cardiovascular disorders (CVD). (U3K135). IJAS conference will be held at the University of London Union, Malet Street, London WC1E 7HY, UK. (5 to 8 November 2013.)
23. Sharma, Dinesh C. (2013h). Hemato-biochemical impact analysis of sounds of nature (music therapy) on human and albino rat. Academic Journal of Science: 2(2):245-250
24. Sharma, Dinesh C. (2013e). Impact analysis of sounds of nature (music therapy) on the hemato-biochemistry of Homo sapiens and Rattus norvegicus. (Proceedings of 2nd International Conference on Medical, Biological and Pharmaceutical Sciences. Held at Regal Riverside Hotel, Shatin, Hong Kong (17/18 -9-13): 6-8.
25. Sharma, Dinesh C. and Rajeev Sharma. (2013f). Impact assessment of musical vibrations on lipid and hormonal parameters of Human volunteers and albino rats related with Coronary Artery Diseases (CAD). Int. J. of Music Therapy. 2(1-2):19-24.
26. Sharma, Dinesh C. (2014). Use of Music therapy in control of poverty by decreasing mental illness. National seminar on "Urban poverty and dynamics of development" held at Govt. P. G. College, Noida, GB Nagar on 15 Feb 2014:13
27. Wigram, T. and J. De Backer. (1999). Clinical applications of music therapy in psychiatry. London: Jessica Kingsley.

A Bi-Annual, Peer Reviewed, UGC Approved, Publication of AICPE, N.D.