

INTERNATIONAL WORKSHOP

on

**STRATEGIES FOR MITIGATING THE EFFECTS OF
CLIMATE CHANGE**

Jointly Organised by



JAGAN NATH UNIVERSITY, JAIPUR, RAJASTHAN

&



JAGAN NATH UNIVERSITY, BHADURGARH, HARYANA

AT

BAHADURGARH CAMPUS, HARYANA

February 20th, 2018



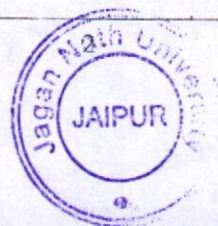


Jagannath University, Jaipur has been established to cater to the growing needs of higher education in the country. One of the primary objectives of the University is to produce trained manpower to accelerate sustained economic growth in a highly competitive global environment. The aim is to impart quality education through latest curriculum, improved teaching methodology, recruitment of best talent as faculty, development of excellent infrastructure, industry interaction, having a research base in all areas of studies by harnessing Faculty of Management, Engineering & Technology, Law, Commerce, and many more.

The University is in proximity to the airport and industrial area on Tonk Road on a vast campus spread over 50 acres of land with all modern educational facilities in its ambience with dedicated transport system between the Jaipur City and the Campus. The fully Wi-fi enabled University campus has well planned modern infrastructure and residential complex for faculty and staff.

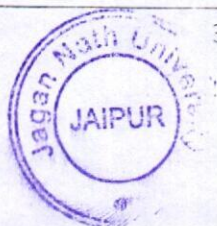


Jagan Nath University, Bahadurgarh, Haryana, came into existence as a Private University in May 2013, incorporated under Haryana State Legislature Act No. 8 of 2013, approved under Section 22 of the UGC Act 1956 and is member of Association of Indian Universities (AIU). The University has its own 26 acres campus located at State Highway 22, Bahadurgarh-Jhajjar Road, Haryana, NCR. It is a multi-faculty University offering UG and PG programs in the areas of Engineering and Technology, Architecture, Management, Commerce, Law, Journalism and Mass Communication, Physiotherapy, Yoga and Naturopathy, Agriculture Science, Teacher Education and Vocational Studies.



Certified True Copy
Registrar
Jagan Nath University, Jaipur

- **Chief Patron:** Shri Manish Gupta, Chancellor, JNUB
- **Patron:** Dr. Amit Gupta, Chancellor, JNUJ
Shri Deepak Gupta
Prof. V. K. Aggarwal, Vice Chancellor, JNUJ
Prof. H.L. Verma, Vice Chancellor, JNUB
- **Conference Chair:** Prof. R.K. Behl, Dean, Faculty of Sciences, JNUB
Prof. P N Kalla, Dean-Faculty of Sciences, JNUJ
Prof. Vivek Sharma, Dean- Faculty of Engg. & Tech., JNUJ
- **Co-ordinator:** Prof. Ranjeeta Soni, Faculty of Sciences, JNUJ
Dr. Ramesh Bharti, Faculty of Engg. & Tech. , JNUJ
- **Convenors:** Dr. Jagdeep Singh, JNUB
Dr. Pritish Jakhar, JNUB
Dr. Ritu Sharma, JNUB
Er. Rinku, JNUB
Mr. Ajay Kumar, Department of Agriculture, JNUJ
- **Farm Demonstration:** Er. Sachin Kumar
- **Organizing Comittee:** Prof.R.K Behl (Dean Academics), JNUB
Prof. Gita Mohan, JNUJ
Prof. S L Sharma, JNUJ
Dr. Sunita Sharma, JNUB
Mr. Chanchal Nandal , JNUB
Dr. Ritu Sharma, JNUB
Dr. Raj Kumar Yadav, JNUB
Dr. Pritish Jhakkhar, JNUB
Dr. R.K. Mudgil, JNUB
Er. Rinku Dhankar, JNUB
Mr. Surmeet Singh, JNUB
Mr. Divyanshu Chauhan, JNUB
Ms. Renu Dangi, JNUB
Mr. Saurabh Bansal, JNUB
Ms. Poonam Sharma, JNUB



Certified True Copy
Registrar
Jagan Nath University, Jaipur

THE WORKSHOP

Globally climate change related effects have been witnessed as per international panel on climate change. The temperature is rising and can be very serious in times to come for production of agricultural crops. Also, climate change will lead to emergence of new diseases, new insect-pests, new weeds etc. which will off-set the yields of agricultural crops till their control measures are identified. The high as well as low temperature impairs the physiology of plants and hence affects the crop yield. The severity of yield losses depends on geographical locations and environmental conditions. This situation necessitates identification of stress tolerant varieties of crops possessing different genes for example high and low temperature, drought and salinity tolerance genes.

There have been several conventions to abate and decide strategies to mitigate climate change effects. The relationship of green house gases in relation to climate change and carbon credits are much discussed subjects globally. The climate change related environmental stresses affect the health of livestock and human beings; hence it has become imperative to work on strategies that will minimize adverse effects on health and wellness. Also, the energy imbalances and shifts need pragmatic change in the designs of the homes to make them energy efficient.

In view of the above facts, Jagan Nath University, Jaipur and Jagan Nath University, Bahadurgarh, Haryana organized an International Workshop on **'Strategies to Mitigate the Effects of Climate Change'** on **20th February, 2018**. World-renowned scientists from France, Germany, Canada were present and shared their views and interacted with the students and farmers from surrounding villages. The invitation to attend the workshop was extended to the academicians, professionals, students of the universities and colleges at the national as well as international level. The functionaries from the Government Departments of Agriculture, Horticulture and NGO's etc. were also invited to participate in the workshop.

Participation

The programme of the workshop was consisting of lectures, debates and discussions with the distinguished scientists, industry experts and academicians. Poster presentation by scholars and students were also made.

OBJECTIVE:

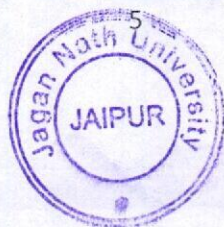
- ❖ To create awareness among students for climate change related issues
- ❖ To develop a strategy to mitigate adverse effect of climate change.

THEMES:

- Effect of Climate Change on Crop Productivity
- Development of Climate Change Resilient Crop Variety
- Conventions on Climate Change
- Carbon Credits
- Effect of Climate Change on Health and Wellness
- Energy Efficient Homes
- Creating Awareness about Climate Change

THE ORGANIZING DEPARTMENTS:

The Departments of Agriculture, Engineering, Law, Management, Mass Communication and Physiotherapy are well equipped with infrastructure as well as expertise to impart quality education to the students. The R&D component is judiciously integrated in the education system to impart practical training to the students as well as commercial orientation. In order to have holistic view of the climate change effects related issues all these faculties have joined hands to organize this workshop.



Certified True Copy
Registrar
Jagan Nath University, Jaipur

KEY RESOURCE PERSONS

The key resource person who were present in the workshop and guided the participants by their rich interaction are as follows:

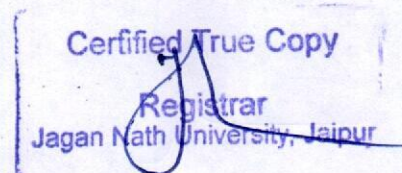
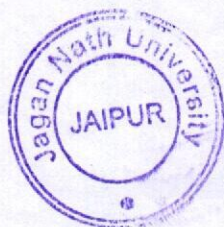
- Prof. (Dr.) Arthur Riedacker, Co-noble Prize Winner IPCC-2007 and Chair Oikos Food Security, France
- Prof. (Dr.) Ravinder Chibbar, Distinguished Chair Genome Canada, University of Saskatchewan, Canada
- Prof. (Dr.) David Olson, Health Specialist, University of Alberta, Canada
- Dr. Manfred Kern, Former Global Head Communications, Bayer Crop Science, Germany and Chair Agri Excellence Germany
- Dr. E. Kazmann, Senior Wheat Breeder, Syngenta, Germany
- Ms. Jyotirana, Murdoch University, Australia
- Prof. (Dr.) R. K. Behl, IFSDAA-ICSA, Germany, SSARM-India, Dean Faculty of Agriculture, JNUB



Certified True Copy
Registrar
Jagan Nath University, Jaipur

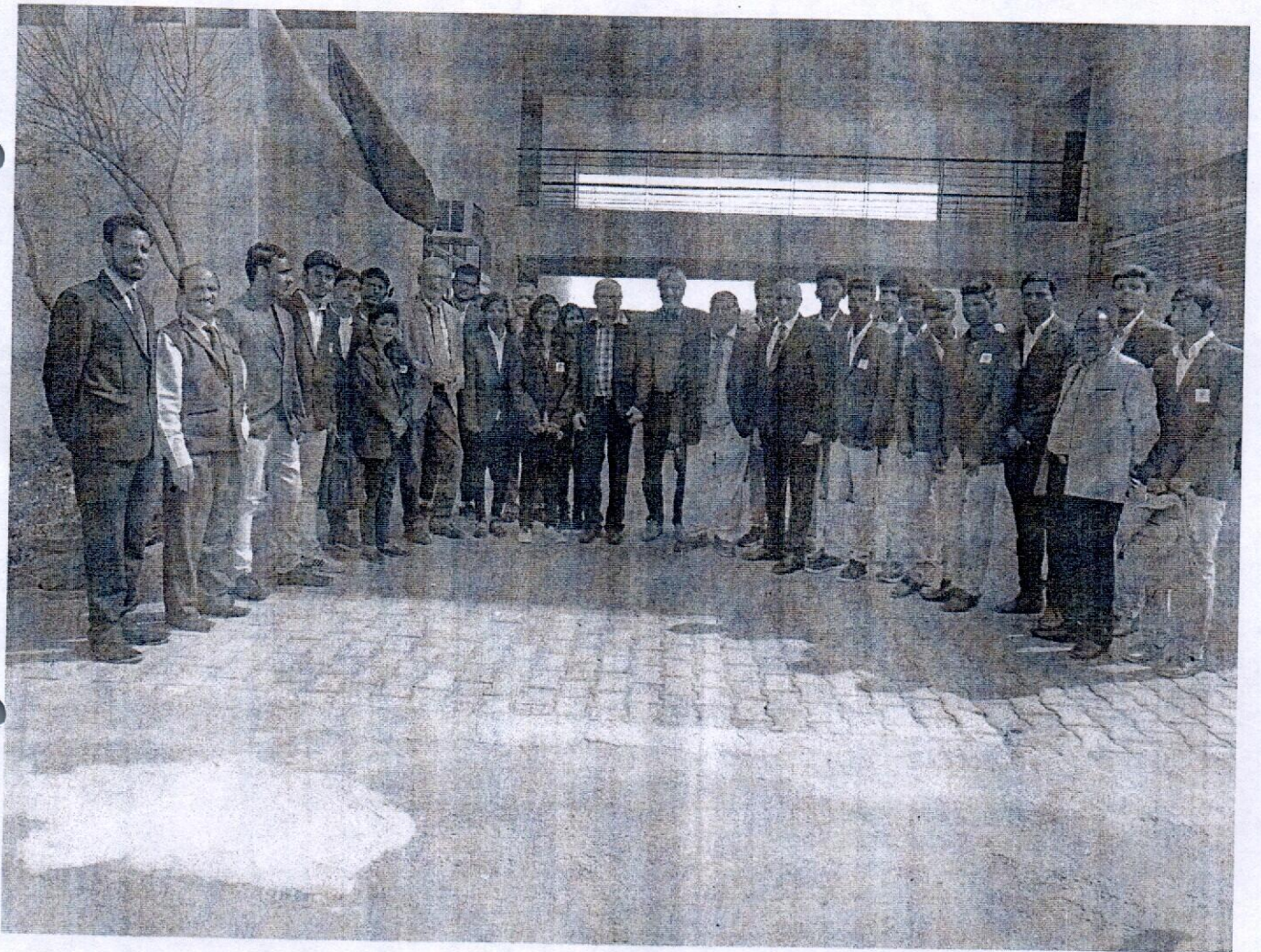
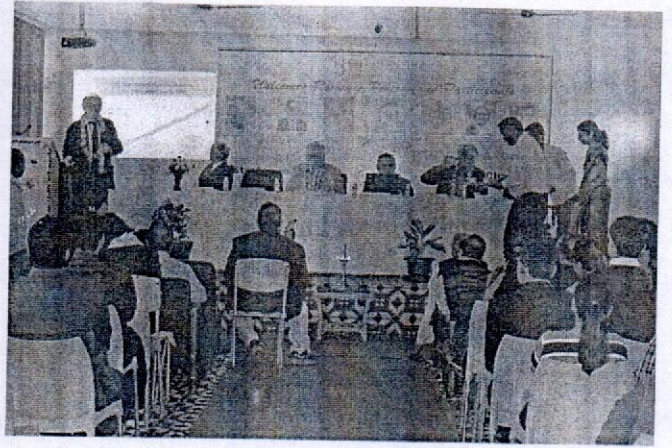
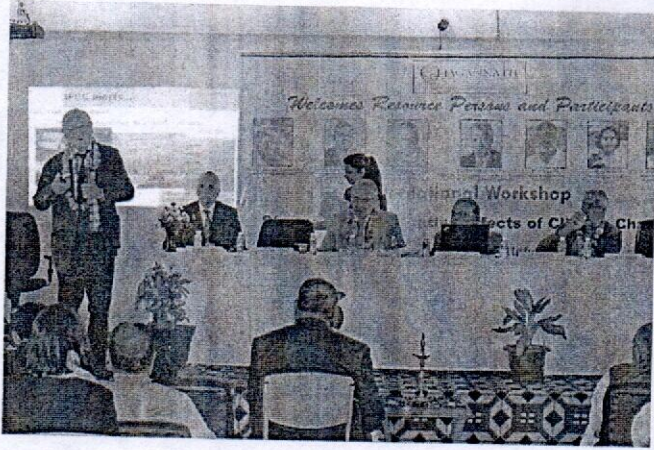
SUMMARY

Jagan Nath University, Jaipur and Jagan Nath University, Bahadurgarh jointly organised International Workshop on “Strategies to Mitigate Effects of Climate Change”, on 20th February 2018. Prof H. L.Verma, Vice Chancellor, Jagan Nath University, Bahadurgarh and Prof. V K Agarwal, Vice Chancellor, Jagannath University, Jaipur welcomed the dignitaries and participants of the workshop who came from India and abroad. Prof. Verma in his welcomed address discussed about the theme of the workshop and its relevance in present scenario. Prof. Agarwal highlighted the climate change issue is relevant to one and all globally as it affects flora and fauna, food- feed , fibre , human beings as well as livestock. The resource persons Prof. Arthur Riedacker, France, CO Nobel Prize winner IPCC 2007, Prof. David Olson, University of Alberta, Canada, Prof. Ravindra Chibbar, University of Saskatchewan, Canada, Dr. Manfred Kern, President Agri Excellence, Germany, Dr. E Kazman, Senior wheat breeder, Syngenta, Germany and Ms. Jyoti Rana, Murdoch University, Australia and Prof. R. K. Behl, Dean – Agriculture JNUB, presented holistic view of reasons , effects, and mitigation strategies of climate change. Prof. Riedacker highlighted that green house gases emission has to be reduced to mitigate the global warming. He suggested that the use of fossil fuels for energy should be minimized and green energy sources should be explored. Prof. David Olson highlighted the effects of global warming and climate change on human health and wellness. He suggested alternative medicines for combating climate change effects. Dr. Manfred Kern highlighted the global food security challenges on account of climate change and suggested the production, Management, Agri-business strategies to balance the climate change effects. Prof. Ravindra Chibbar, suggested the use of biotic stress tolerant genes for developing improved crop varieties. He highlighted that both high and low temperatures stresses are relevant in global climate change and battery of genes are available to develop stress tolerant varieties. E. Kazman highlighted the breeding strategies of wheat for achieving higher yields and quality under stress conditions. Ms. Jyoti Rana highlighted that the soil nematodes change in terms of species and



communities depending on prevailing climate. She also highlighted the bio control measures for nematodes and use of advanced genetic engineering technologies to minimize nematode population in the soil. The session was moderated by Prof. R. K. Behl, Dean- Agriculture, JNUB. Vote of thanks was delivered by Dr. Ritu Sharma, HOD, Faculty of Management and Commerce. Field visit was conducted by Dr. Prithvi Jakhar, Dr. Jagdeep Singh and Er. Sachin to demonstrate use of brackish water for successful cultivation of mustard and wheat. Participants presented good number of posters and interacted with the dignitaries as discussants on the topic of workshop.





Certified True Copy
Registrar
Jagan Nath University, Jaipur