



INTERNATIONAL CONFERENCE

on

**CLIMATE CHANGE: A CHALLENGE FOR
AGRICULTURISTS**

at

**KHYBER PAKHTUNKHWA AGRICULTURAL UNIVERSITY,
PESHAWAR- PAKISTAN**

28-30 MAY, 2012



Organized by:

- Khyber Pakhtunkhwa Agricultural University,
Peshawar- Pakistan

Supported by:

- Higher Education Commission of Pakistan

Introduction

The unprecedented warming of the earth's climate particularly during the last several decades has resulted in elevated temperatures at higher altitudes as well as latitudes. These high temperatures have been accompanied with other climatic factors such as increased flooding and more extreme weather events. It has been reported that nine of the ten, earth's warmest years occurred since 1995. Pakistan experienced severe floods in history during 2010 due to glacial runoff which might be attributed to climate change and global warming. Global warming is projected to have significant impacts on agriculture, ecosystems including temperature, carbon dioxide, glacial run-off, precipitation and the interaction of these elements. These conditions determine the capacity of the biosphere to produce enough food for human and domesticated animals. Overall effects of climate change on

agriculture depend on the balance of these effects. Assessment of the effects of global climate changes on agriculture might help to properly anticipate and adapt farming to maximize agricultural production in the changing scenario.

Despite technological advances including improved varieties, GMOs, and irrigation systems, weather is still a key factor in determining agricultural productivity and ecosystems.

The climatic change could affect agriculture in several ways. For example:

- *Productivity*, in terms of quantity and quality of crops
- *Agricultural practices*, through changes in water use and agricultural inputs such as herbicides, insecticides and fertilizers, etc.
- *Environmental effects*, particularly the frequency and intensity of soil drainage, soil erosion and reduction of crop diversity accompanied with changes in cropping pattern.
- *Adaptation in organisms*, in terms of tolerance, resistance, avoidance, and escape.
- Unchecked urbanization through the widespread loss of cultivated lands.

Conference Objectives & Themes

The prime objective of the conference is to bring together scientists worldwide and provide them an opportunity to share their experiences and devise strategies regarding how to increase agricultural productivity to feed the ever-increasing world population in a changing climate. The conference will focus on the theme of "Climate Change: A Challenge for Agriculturists". Paper and poster presentation will be invited on relevant aspects. The topics may include (but not limited to):

- *Agricultural productivity*, in terms of quantity and quality as affected by environmental factors;
- *Effect of agricultural practices*, including water application, agricultural inputs e.g. herbicides, insecticides and fertilizers, to sowing time and plant populations etc.
- *Environmental effects*, the intensity of soil drainage leading to nutrients leaching, runoff, soil erosion and reduction of crop diversity
- Loss and gain of cultivated lands.
- *Crop/organisms adaptation*, including development of new varieties, resistant to biotic and abiotic stresses, having higher WUE and FUE etc. Adaptation mechanisms of the varieties and the methods to control pathogens and insect pests in an efficient and environmentally friendly ways.
- *Sustainable agriculture and organic farming*
- Any environment friendly innovation in agriculture.

Schedule for Abstracts and full Papers

- Last date for submission of Paper's Abstract (one page) is **May 1, 2012**.
- Acceptance of abstracts will be communicated by **May 5, 2012**.
- The author(s) of the accepted abstracts will have to

submit full length papers by **May 12, 2012**.

- PhD students are encouraged for poster competition. They should submit their one page poster theme till **May 01, 2012**. Final Posters must be submitted **May 15, 2012**.

Abstract Format

- ◆ Abstract should be submitted as Microsoft Word file. PDF file is not acceptable.
- ◆ The abstract should be saved with "CC-author's surname"
- ◆ Abstract should be submitted through E-mail as an attachment to climatechange@aup.edu.pk or drinam@aup.edu.pk;
- ◆ The subject line of E-mail must be "CC-author's surname"
- ◆ Abstract will not be accepted by fax or hard copy.

How to Register & Registration Fee

- ◆ Participants from Agricultural University Faculty: Rs.1000/-
- ◆ PhD students from Agricultural University: Rs. 500/-
- ◆ Other Institutes: Rs.1500/-
- ◆ Accommodation (First come first serve basis)
 - One night stay: Rs.2500/-
 - Two nights stay: Rs.3500/-
 - Three nights stay: Rs.4500/-
 - Foreign delegates (Except invited speakers): USD: 100/-
- ◆ Trip to Bala Hisar Fort (including refreshment): Rs.200
- ◆ *The registration fee must be deposited in Bank Account #: 14870007940801, Swift Code: HABBPKKA, Habib Bank Ltd, KP Agricultural University Shopping Center Branch, Peshawar, Pakistan*

Venue

Khyber Pakhtunkhwa Agricultural University Peshawar-Pakistan

About Peshawar

Peshawar is one of the oldest historical cities of Pakistan. It is the capital of Khyber Pakhtunkhwa province with a total population of about 3.2 million. The name "Peshawar" is derived from the Sanskrit *Purushapura* (meaning "city of men") and is known as *Pekhawar* or *Peshawar* in local Pashto and *Pishor* in local Hindko languages. The area originally belonged to Gandhara or Buddhist civilization. It also witnessed Greek and Arab influence. It was an important city of the Mughal Empire. Today it is one of the prime cities of Pakistan from strategic, industrial and agricultural point of view. It is gateway to central Asia, connected with Afghanistan through the historical Khyber Pass. In 1906, Agriculture Farm Tarnab was established here. Peshawar has a number of world's renowned research and education institutes namely KP Agricultural University, Agricultural Research Institute Tarnab, Nuclear Institute for Food and Agriculture (NIFA), Agriculture Training Institute, Pakistan Forest Institute, Peshawar University, University of Engineering & Technology, Khyber Medical University Peshawar and the historical Islamia College now called Islamia College University Peshawar.

How to reach Peshawar?

Peshawar is very well connected with other cities in the country by air and road travel. For air travel flights operate between Peshawar and Karachi. One may also take International flights for Islamabad which is two hours drive by motorway from Peshawar.

Passport and Visa

A valid passport is required to all visitors entering the Islamic Republic of Pakistan. Most participants, except those from countries which have visa exemption agreements with the Islamic Republic of Pakistan, should get their visas before leaving for Pakistan. For detailed information, please consult the local Embassies/Consulates or travel agencies. Invitation letter will be issued by Khyber Pakhtunkhwa Agricultural University Peshawar to facilitate visa process.

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For Sponsors

All companies who want to make stalls to introduce or sell their products such as chemicals, herbicides, insecticides, fertilizers, etc., scientific equipments and books are requested to contact the Organizers on or before **April 25, 2012**.