

# Conference on **INNOVATIONS IN AGRICULTURE**

**THEME:** Nourishing Pakistan in Changing Climate



**February 13-15, 2019**



Institute of Soil & Environmental Sciences  
University of Agriculture Faisalabad, Pakistan  
&  
Pakistan Agricultural Scientists  
Forum (PAS Forum)



# Conference Program

## INNOVATIONS IN AGRICULTURE:

Nourishing Pakistan in Changing Climate

February 13 -15, 2019

University of Agriculture Faisalabad, Pakistan

### Day 1 (Wednesday, February 13, 2019)

09:00-10:00	Registration
10:00-12:30	<b>Inaugural session</b> (CAS Auditorium, University of Agriculture Faisalabad)
10:00	Recitation from <b>Holy Quran</b> and <b>Naat-e-Rasool (SAWW)</b>
10:10	Welcome address <b>Prof. Dr. Javaid Akhtar</b> , Director, Institute of Soil & Environmental Sciences, UAF
10:20	Keynote lecture 1: Entrepreneurial mindset for agri-based business in changing climate <b>Dr. M. Shahid Qureshi</b> , Institute of Business Administration, Karachi
10:50	Keynote lecture 2: Livestock production in Pakistan: Opportunities and challenges <b>Hafiz Wasi Muhammad</b> , H W Agri. Initiative
11:20	Agricultural challenges and Pakistan Agricultural Scientist Forum <b>Dr. Salman Saeed</b> , President, PAS Forum
11:30	Address by Guest of Honor <b>Prof. Dr. Zafar Iqbal</b> , Vice Chancellor, UAF
11:50	Address by Chief guest
12:10	Vote of thanks <b>Dr. Abdul Wakeel</b> , Institute of Soil & Environmental Sciences, UAF
12:20	Group Photo
12:30-14:00	Lunch/Prayer break

14:00-16:30	<p>Technical Session-I (CAS Auditorium, UAF)  Crop production and climatic challenges  <b>CHAIRS: Dr. Zahid Ata Cheema, Dr. Ashfaq Wahid, Dr. Aftab Afzal</b></p>
14:00-14:30	<p>Plenary lecture: Alternate crops for changing climate  <b>Dr. Shahzad Maqsood Ahmad Basra</b>, University of Agriculture, Faisalabad</p>
14:30-14:45	<p>Biochar and chemical fertilizer enhanced radish (<i>Raphanus raphanistrum</i>) growth and biomass production by improving soil available nutrients and organic carbon in alkaline soil  <b>Dr. Muhammad Riaz</b>, GC University, Faisalabad</p>
14:45-15:00	<p>Biofortified high zinc wheat: An innovative intervention to nutrition security in changing climate  <b>Dr. Muhammad Iqbal Makhdum</b>, NARC, Islamabad</p>
15:00-15:15	<p><i>Arabidopsis</i> Thionin-Like family genes are involved in resistance against beet-cyst nematode (<i>Heterodera Schachtii</i>)  <b>Dr. Muhammad Amjad Ali</b>, University of Agriculture, Faisalabad</p>
15:15-15:30	<p>Challenges and opportunities for sustainable weed management in Pakistan under changing climate: Lesson learned from Australia  <b>Arslan Masood Peerzada</b>, University of Queensland, Australia</p>
15:30-15:45	<p>Engineering thermotolerant rubisco activase: Towards efficient photosynthesis in changing climate  <b>Dr. Faiz Ahmad Joyia</b>, University of Agriculture, Faisalabad</p>
15:45-16:00	<p>Mutation breeding in sunflower: Nature's finest apocalypse preppers  <b>Sania Ashraf</b>, University of Agriculture, Faisalabad</p>
16:00-16:15	<p>Investigations on internal morphological and enzymatic modifications in thermo-vulnerable and thermo-tolerant genotypes of okra exposed to heat stress  <b>Dr. Muhammad Wajid Khan</b>, University of Sargodha</p>
16:15-16:30	<p>Impact of combined application of rhizobia and biochar on the productivity of sunflower under drought stress  <b>Dr. Ahmad Nawaz</b>, BZU, Sub-Campus, Layyah</p>
14:00-16:30	<p>Technical Session-II (Room # 1, CAS building)  Socioeconomic development and their implications / Sustainable animal production  <b>CHAIR: Dr. Khalid Javaid, Dr. Munawar Ali, Dr. Sabir Hussain</b></p>
14:00-14:30	<p>Plenary Lecture: Comparison of agriculture energy use from different sources for an improved energy efficiency and farm productivity  <b>Dr. Hafiz Zahid Mahmood</b>, COMSATS, Lahore</p>
14:30-14:45	<p>Improved crop production through farmers' capacity building in Khyber Pakhtunkhwa, Pakistan  <b>Dr. Ijaz Ashraf</b>, University of Agriculture, Faisalabad</p>

14:45-15:00	Capacity building of smallholder rice growers: Implications for outreach organizations <b>Dr. Umair Talib</b> , PMAS-Arid Agriculture University Rawalpindi
15:00-15:15	Exploring nexus between agricultural productivity and farm credit disbursement in Pakistan: does policy matter? <b>Dr. Azhar Abbas</b> , University of Agriculture, Faisalabad
15:15-15:30	Women participation level in agriculture activities for socio economic-development <b>Dr. Ayesha Riaz</b> , University of Agriculture, Faisalabad
15:30-15:45	Effects of long-term carnitine supplementation on genes involved in fatty acid metabolism and cholesterol synthesis in aged animals <b>Dr. Uzman Bashir Cheema</b> , University of Agriculture, Faisalabad
15:45-16:00	Effect of herbal mineral vitamin blend on growth performance and nutrient digestibility of broilers <b>Dr. Sibtain Ahmad</b> , UAF- Sub Campus Depalpur, Okara
16:00-16:15	Sustainable dairy production through feeding and nutritional management <b>Dr. Muhammad Tariq</b> , University of Agriculture, Faisalabad
16:15-16:30	Substitution of vegetable protein ingredients with hi-pro fish meal and its effect on whole body composition and protein quality in Ross-308 broilers from day 1-21 <b>Najam-Us-Sahar</b> , University of Agriculture, Faisalabad
16:30-17:00	Coffee/Tea /prayer break
17:00-18:30	Business meeting of PAS Forum
18:30	Dinner
<b>Day 2 (Thursday, February 14, 2019)</b>	
09:00-11:00	Technical Session-III (CAS Auditorium, UAF) Crop production and climatic challenges <b>CHAIRS: Dr. Zahir Ahmad Zahir, Dr. Tasneem Khaliq, Dr. Saeed Asad</b>
09:00-09:30	Plenary lecture: Innovation in commercial phosphatic fertilizer for enhancing phosphorus use efficiency and yield of wheat under climate change scenario of Pakistan <b>Dr. Muhammad Yaseen</b> , University of Agriculture Faisalabad
09:30-10:00	Plenary lecture: Role of precision agriculture in enhancing crop production <b>Dr. Jehanzeb Masud</b> , University of Agriculture, Faisalabad
10:00-10:15	Characterization of Ralstonia solanacearum strains from different agro-ecological zones of Pakistan and studying their variability <b>Dr. Tariq Mukhtar</b> , PMAS-Arid Agriculture University, Rawalpindi

10:15-10:30	Evaluation of Antifungal Potential of Leaf Extract of <i>Chenopodium murale</i> against <i>Fusarium oxysporum</i> f. sp. <i>Lycopersici</i> <b>Dr. Arshad Javaid</b> , University of Punjab, Lahore
10:30-10:45	Management of American bollworm ( <i>Helicoverpa armigera</i> ) using native isolated Slitnpv Nucleopolyhydroviruses <b>Dr. Jam Nazeer Ahmad</b> , University of Agriculture, Faisalabad
10:45-11:00	Effect of weather shift on plant disease distribution in Punjab, Pakistan <b>Dr. Salik Nawaz Khan</b> , University of Punjab, Lahore
09:00-11:00	Technical Session-IV (Room # 1, CAS building) Conservation of natural resources <b>CHAIRS: Dr. Ghulam Murtaza, Dr. Tariq Aziz, Dr. Zahid Sarwar</b>
09:00-09:30	Plenary Lecture: Conservation of natural resources under changing climate <b>Dr. Fiaz-ul-Hassan Sahi</b> , PMAS-Arid Agriculture University, Rawalpindi
09:30-10:00	Plenary Lecture: Controls on soil organic matter cycling from varying climates of Pakistan <b>Dr. Tanvir Shahzad</b> , GC University, Faisalabad
10:00-10:15	Groundwater governance in Pakistan: Common perspectives and narratives <b>Dr. Muhammad Arif Watto</b> , UAF- Sub Campus Depalpur, Okara
10:15-10:30	Effect of drought stress on soil organic matter dynamics and soil health of normal and saline soil <b>Abdul Qadeer</b> , University of Agriculture, Faisalabad
10:30-10:45	Assessing the vulnerabilities of current and future production systems: a case study of rain fed region of Punjab <b>Dr. Syed Asif Ali Naqvi</b> , GC University, Faisalabad
10:45-11:00	Chemical composition of essential oils of native plants and evaluation of their potential against <i>Aedes Aegypti</i> <b>Dr. Muhammad Azeem</b> , CUI, Abbottabad Campus
11:00-12:30	Poster session
12:30-14:00	Lunch/Prayer break
14:00-15:00	Panel discussion on "Agriculture policy: Challenges and way forward for Pakistan" (CAS Auditorium, UAF) <b>Dr. M. Anjum Ali Bhuttar</b> (DG Extension & Adaptive Research, Punjab) <b>Dr. Ashfaq Ahmad Chattha</b> (Professor, Department of Agronomy, UAF) <b>Mr Muhammad Azam Cheema</b> (Chairman Sayban Group) <b>Syed Naseer Gilani</b> (Planning Commission of Pakistan) <b>Dr. Fiaz ul Hassan Sahi</b> ( Dean, Faculty of Crop & Food Sciences, PMAS Arid Agriculture University Rawalpindi. Representative of Poultry Industry <b>Mr. Saeed Mughal</b> (Moderator)

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15:00-16:00 Concluding Session (CAS Auditorium, UAF)

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Recitation from Holy Quran and Naat-e-Rasool (SAWW)

Recommendations of the Conference

**Dr. Masood Ahmad Shakir**

Distribution of certificates/shields/announcement of poster prizes

Address of Chief Guest

Vote of thanks

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16:00-16:30 Coffee/Tea /Prayer break

**Day 3 (Friday, February 15, 2019)**

09:00-12:00 Field Excursion

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12:00-12:30 Tea break/Departure

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