

Three-Day International Planning Workshop  
**WATERSHED MANAGEMENT & LAND REHABILITATION,**  
**NW FRONTIER REGION, PAKISTAN**

Pakistan Academy of Sciences, Islamabad, December 6-8, 2010



DAY I		MONDAY, DECEMBER 6, 2010	
08:30	REGISTRATION & COFEE/TEA		60'
09:30	SESSION – I (Morning): INAUGURATION		
09:30		Recitation	05'
09:35	<b>Dr. M. Asif Khan</b> <i>Director, NCEG, Univ. Peshawar</i>	Welcome & Overview	15'
09:50	<b>Dr. David Dichter</b> <i>Workshop International Convenor</i>	Workshop Objectives	15'
10:05	<b>Mr. Malik Zahoor Ahmad</b> <i>Chairman, Afghan-Pak-US Trilateral secretariat</i>	MinFA & Tri-Lateral Initiatives	15'
10:20	<b>Mr. Joe Carroll</b> <i>Senior Agriculture Attaché</i>	U.S. Department of Agriculture Support to Development of Water Resources and Agriculture, Pakistan	15'
10:35	<b>Mr. Nazar M. Gondal</b> <i>Federal Minister, MinFA</i>	Inaugural Address	15'
10:50	<b>Dr. Azmat Hayat Khan</b> <i>V.C. Univ. of Peshawar</i>	Address and Concluding Remarks	10'
11:00	COFFEE/TEA BREAK		
11:30	SESSION – II (Morning): Mount Front Plains: Geomorphology, Hazards, Environment		
	<b>Chairman: Engineer Shams UI Mulk, President BOG, GIK Institute</b> <b>Co-Chairman &amp; Secretary: Dr. Tariq Cheema, Syncrude, Canada</b>		
11:30	<b>Hassam Ud-Din Bangash</b> <i>BAK Consulting Engineering, Peshawar</i>	<b>Invited Talk:</b> Developmental possibilities in Water Resources and Irrigation Engineering, Southern Khyber-Pakhtunkhwa (NWFP), Pakistan	15'
11:45	<b>Ishtiaq Jadoon</b> <i>COMSAT, Abbotabad</i>	Foreland Mountain Fronts, Pakistan: Tectonic Origin & Sedimentation	15'
12:00	<b>M. Haneef &amp; M. Asif Khan</b> <i>University of Peshawar</i>	Mountain Front Alluvial Fans: Origin and dynamics	15'
12:15	<b>Jerry Bernard</b> <i>USDA Natural Resources Conservation Service</i>	<b>Invited Talk:</b> Flood Control Measures on Alluvial Fans	15'
12:30	<b>Arshad Ashraf, Naveed Mustafa, Muhammad Bilal Iqbal, Muhammad Yasin</b> <i>WRRI, NARC, Islamabad</i>	Assessment of hill torrent (Rod-Kohi) cultivation in Pakistan	15'
12:45	<b>Tariq Cheema</b> <i>Syncrude Canada</i>	<b>Invited Talk:</b> Geoenvironmental Issues and Research in Land Reclamation: A case history from Alberta	15'
13:00	<b>Grant Casady</b> <i>University of Arizona, Tucson</i>	<b>Invited Talk:</b> Using Remote Sensing Data in Assessing Past Productivity & Future Resource Availability in the NWF Region of Pakistan	15'
13:15	LUNCH/PRAYER BREAK		
14:00	SESSION – III (Afternoon): Arid land Reclamation/Rehabilitation		
14:00	<b>Chairman: Dr. Otto Gonzalez, Office of Capacity Building and Development, USDA, Washington DC, USA</b> <b>Co-Chairman &amp; Secretary: Arjun Kumar Thapa, Ministry of Environment, Nepal</b>		
14:00	<b>Arjun Kumar Thapa</b> <i>Ministry of Environment Government of Nepal</i>	<b>Invited Talk:</b> Participatory watershed management: an experience of Nepal	15'
14:15	<b>Muhammad Rashid</b> <i>University of Agriculture, Faisalabad</i>	Cost effective management of water eroded areas on sustainable basis and insitu rainwater conservation	15'

# WATERSHED MANAGEMENT & LAND REHABILITATION, NW FRONTIER REGION, PAKISTAN

Pakistan Academy of Sciences, Islamabad, December 6-8, 2010



14:30	<b>Galal Hussein</b> <i>Desert Research Institute of Egypt Cairo Egypt</i>	<b>Invited Talk:</b> Water Management & Agriculture Development in Dry- Land Areas	15'
14:45	<b>Muhammad Jamal Khan</b> <i>KP Agri. Univ. Peshawar</i>	<b>Invited Talk:</b> Prospects and problems of Rud Kohi Irrigation System	15'
15:00	<b>COFFEE/TEA BREAK</b>		
15:30	<b>SESSION – IV (Afternoon): Water Resources &amp; Irrigation Engineering Practices</b>		
	<b>Chairman: Dr. Shahid Ahmad, Member, Natural Resources, Pakistan Agriculture Research Council, Islamabad, Pakistan</b>		
	<b>Co-Chairman &amp; Secretary: Dr. Jack Carlson, Colorado State University, USA</b>		
15:45	<b>Roland Oosterbaan</b> <i>Wageningen University, Netherland (Formerly)</i>	<b>Invited Talk:</b> Water Harvesting & Agricultural Land Development Options in the NWFR of Pakistan	15'
16:00	<b>A Bakhsh</b> <i>University of Agriculture, Faisalabad</i>	Rod Kohi Irrigation System in Southern Punjab, Pakistan	15'
16:15	<b>Allah-Nawaz Qaisrani</b>	Spate irrigation & land degradation in Pakistan	15'
16:30	<b>M. Naseem Golra</b> <i>Irrigation Department, Khyber-Paktunkhwa Government</i>	Irrigation System, Arid Piedmont Plains of Southern Khyber-Pakhtunkhwa (NWFP), Pakistan; Issues & Solutions	15'
16:45	<b>Din Muhammad Zahid Khan</b> <i>B.Z. University, Multan</i>	A brief review of Watershed and hill torrent management in DG Khan region, Sulaiman Range: Water-use efficiency of local tree species in arid climate	15'
17:00	<b>Mian Zakiullah</b> <i>FATA Secretariat, Pesh</i>	FATA Rural Development Project: Water Shed Management from Rural Development perspective-A case Study.	15'
19:30	<b>Workshop Dinner</b>		
<b>DAY II</b>	<b>TUESDAY, DECEMBER 7, 2010</b>		
09:00	<b>SESSION – V (Morning): Soil Conservation &amp; Agriculture Development</b>		
	<b>Chairman: Prof. Dr. Khan Bahadar Marwat, Vice Chancellor, KP Agriculture University, Peshawar</b>		
	<b>Co-Chairman &amp; Secretary: Roland Oosterbaan, Wageningen University, Netherland</b>		
09:00	<b>Riaz A Khattak</b> <i>KP Agri. Univ. Peshawar</i>	<b>Invited Talk:</b> Efficient Management of Arid Land	15'
09:15	<b>M. Jamal Khan, Sajida Parveen</b> <i>KP Agricultural University, Peshawar</i>	Soil Resources of KPK: problems and Rehabilitation strategies for the degraded land	15'
09:30	<b>Samina Siddiqui, Wajid Ali</b> <i>NCEG, Univ. Peshawar</i>	Soil erosion in Dera Ismail Khan, Khyber-Paktunkhwa (NWFP): Problems and Potential Solutions	15'
09:45	<b>Mohammad Saleem Akhtar</b> <i>Arid Agriculture University, Rawalpindi</i>	Potential, constraints and recommendations for crops and orchard cultivation in arid mountains	15'
10:00	<b>Mohamamd Ishfaq Khan</b> <i>KP Agricultural University, Peshawar</i>	Management of wild onion in the dry areas (rainfed) of KP Province, Pakistan.	15'
10:15	<b>Hafiz Farhad Ali</b> <i>Department of Agriculture Extension, FATA</i>	Dryland Farming Techniques Under Multiple Cropping Conditions	15'
10:30	<b>Bashir Ahmed</b> <i>KP Agricultural University, Peshawar</i>	Reclamation and Utilization of the arid land for medicinal herbs and spices as crops.	15'
10:45	<b>COFFEE/TEA BREAK</b>		
11:15	<b>SESSION – VI (Morning): Rangeland Development and Water Conservation</b>		

Three-Day International Planning Workshop  
**WATERSHED MANAGEMENT & LAND REHABILITATION,  
 NW FRONTIER REGION, PAKISTAN**

Pakistan Academy of Sciences, Islamabad, December 6-8, 2010



	<b>Chairman: Engineer Dr. M. Akram Sheikh, Formerly Federal State Minister/Deputy Chairman, Planning Commission, Pakistan</b>		
	<b>Co-Chairman &amp; Secretary: Dr. Galal Hussein, Desert Research Centre, Cairo, Egypt</b>		
11:15	<b>Abdul Majid &amp; M. Ashraf</b> <i>ICARDA, Islamabad</i>	<b>Invited Talk:</b> ICARDA experience in managing degraded landscape in dry areas	15'
11:30	<b>Jack R. Carlson</b> <i>Colorado State University, USA</i>	<b>Invited Talk:</b> Improving Agro-Environmental Resource Conditions in the Northwest Frontier Region of Pakistan Using Native and New Drought-Resistant Grasses	15'
11:45	<b>Taymoor Arif</b> <i>IUCN, Lahore</i>	Impact assessment of check damming on floral bio-diversity & soil properties in Tehsil Talagang, District Chakwal, Pakistan	15'
12:00	<b>A. Bakhsh, M.U. Ali, N. Ahmad, H. U. Farid</b> <i>Univ. Agriculture, Faisalabad</i>	Investigating Aquifer Storage and Recovery Technology to Recharge Saline Groundwater at Farmer's Field	15'
12:15	<b>Ghulam Jilani,</b> <i>Arid Agriculture University, Rawalpindi</i>	Enhancing soil productivity through biological amendments	15'
12:30	<b>LUNCH/PRAYER BREAK</b>		
13:30	<b>SESSION – VII (Afternoon): Working Group Discussions</b>		
	<b>Chairman: Professor Dr. M. Qasim Jan, Secretary General, Pakistan Academy of Sciences, Islamabad</b> <b>Co-Chairman &amp; Secretary: Professor M. Haneef, Chairman, Geology Department, University of Peshawar</b>		
13:30	<b>David Dichter</b> <i>Birkbeck College, London (Formerly)</i>	<b>Invited Talk:</b> Proposed Plan for Land Rehabilitation and Agriculture Development NWFR, Pakistan	15'
13:45	<b>Working Group I</b>	Identifying measures for Watershed Rehabilitation, Water Harvesting, and Flood Mitigation in the Northwest Frontier Region.	90'
13:45	<b>Working Group II</b>	Improving Agricultural Development and Range Management Practices In Order to Increase Income and Food Security in the Northwest Frontier	90'
13:45	<b>Working Group III</b>	Involving the Tribal People in the Rehabilitation and Development of their Agricultural Land Resources	90'
16:00	<b>COFFEE/TEA BREAK</b>		
16:30	<b>SESSION – VIII (Afternoon): Working Group Discussions</b>		
	Working Group Discussion Continued		60'
19:30	<b>Workshop Dinner</b>		
<b>DAY III</b>	<b>WEDNESDAY, DECEMBER 8, 2010</b>		
09:00	<b>SESSION –IX (Morning): Plenary Session: Working Group Presentations</b>		
09:00	<b>Working Group I</b>	Group Leader Presentation & Discussions	30'
09:30	<b>Working Group II</b>	Group Leader Presentation & Discussions	30'
10:00	<b>Working Group III</b>	Group Leader Presentation & Discussions	30'
10:30	<b>COFFEE/TEA BREAK</b>		
11:00	<b>SESSION – X (Morning): Finalization of Work Plan (Separate Groups)</b>		
11:00	<b>Working Group I</b>	Finalization of Recommendations/Work Plan	120'
11:00	<b>Working Group II</b>	Finalization of Recommendations/Work Plan	120'
11:00	<b>Working Group III</b>	Finalization of Recommendations/Work Plan	120'
13:00	<b>LUNCH/PRAYER BREAK</b>		
14:00	<b>SESSION – XI (Afternoon): Plenary Closing Session</b>		
14:00	Recitation		

**WATERSHED MANAGEMENT & LAND REHABILITATION,  
NW FRONTIER REGION, PAKISTAN**

Pakistan Academy of Sciences, Islamabad, December 6-8, 2010



<b>14:05</b>	<b>David Dichter</b> <i>Workshop Co-Convenor</i>	Watershed Management & Land Rehabilitation, NW Frontier Region: Overview	15'
<b>14:20</b>	<b>M. Asif Khan</b> <i>NCEG, Univ. Peshawar</i>	Workshop Proceedings and Recommendations	15'
<b>14:35</b>	<b>Panel</b>	<b>Open House Discussions</b>	60'
	<b>Panellists:</b> Mr. Malik Zahoor Ahmad (MinFA), Dr. Shahid Ahmad (PARC), Dr. Abdul Majid (ICARDA), Dr. Riaz Khattak (KPAU), Dr. Anwar-ul-Hasan (AUF), Dr. Khalid Mehmood Khan (PMAS AAU), Dr. Oosterbaan (Netherlands), Dr. Jerry Bernard (USDA), Dr. Galal Hussein (Egypt), Grant Casady (Arizona), Dr. Iqrar A. Khan (AUF), Dr. Otto Gonzalez (USDA)		
<b>15:30</b>	<b>Dr. Sohail H. Naqvi</b> <i>Executive Director, HEC</i>	<b>Sponsoring Remarks</b>	15'
<b>15:45</b>	<b>Mr. Owais Ahmed Ghani</b> <i>Governor KP (NWFP)</i>	<b>Concluding Address</b>	15'
<b>16:00</b>	<b>Dr. Azmat Hayat Khan</b> <i>VC Univ. Of Peshawar</i>	<b>Address and Vote of Thanks</b>	10'
<b>16:10</b>	<b>COFFEE/TEA &amp; WORKSHOP CLOSING</b>		