



International Conference: Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in Dryland Regions

23-25 November 2016, Rawalpindi, Pakistan

Co-hosted by UNESCO and PMAS-AAUR

1. BACKGROUND:

In order to realize Agenda 2030, UNESCO and PMAS-Arid Agriculture University Rawalpindi, Pakistan with the support of Japan Funds-in-Trust and Malaysia Funds-in-Trust, are taking the lead in highlighting key issues, available solutions and policy directions for poverty alleviation and improved livelihood in dryland regions in Asia and the Pacific region. The agricultural productivity has seen a rapid growth since the late 1950s due to introduction of new crop varieties and fertilizer use. However, the boost in agricultural production has remained limited to irrigated plains, while the dryland regions are still facing food insecurity and poverty. The situation is further worsened due to non-adaptability of modern technologies and lack of mechanization resulting in decreased water productivity. There is dire need to improve water use efficiency and energy inputs on sustainable basis for substantial increase in food production.

2. OBJECTIVES

Keeping in view the scarcity of water, energy and food, the upcoming conference will provide an opportunity to hold an international dialogue between policy makers, scientists, academicians, other experts and stakeholders for exploring new dimensions to increase water and food security and alleviate poverty in the resource deficient dryland regions worldwide, in Asia and the Pacific region, and particularly in Pakistan. Participants in this dialogue will discuss the thematic areas and propose policy guidelines and strategies for effective use of resources to ensure water, energy and food security. This conference will help facilitate the integration of the newly adopted Sustainable Development Goals (SDGs) into national development plans of respective member states / countries, particularly on SDGs 1, 2, 3, 6, 7, 9, 11, 13, 15 and 17.

3. CONFERENCE THEMES

The conference is organised around four major themes:

1.1 Water Security for Sustainable Development:

- ✓ Substantially increase in water use efficiency across all sectors and sustainable withdrawal/supply of fresh water to address water scarcity.
 - ✓ Protect and restore water-related ecosystems, including mountains, forests, wetlands, rivers, aquifers and lakes.
 - ✓ Identify new ways of supporting and strengthening the participation of local communities in improving water and sanitation management.
- ❖ Renewable Energy Systems
- ✓ Increase substantially the share of renewable energy in the global energy mix
 - ✓ Expansion of infrastructure and up-gradation of technology for supplying modern and sustainable energy services for all in developing countries.
- ❖ Food Security
- ✓ Enhancing agricultural productivity and income of small-scale food producers, in particular, women, family farmers, pastoralists and fishers, through secure and equal access to productive resources and inputs, knowledge, financial services, markets and opportunities for value addition and non-farm employment.
 - ✓ Ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.
- ❖ Poverty Alleviation
- ✓ Building resilience of the poor and those in vulnerable situations and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters.
 - ✓ Capacity building and training of farming community activist through managerial, financial and entrepreneurial capacity build-up for establishing local level enterprises based upon local agricultural produce and value addition process.
 - ✓ Creation of sound policy frameworks at the national, regional and international levels, based on pro-poor and gender-sensitive development strategies, to support accelerated investment in poverty eradication actions.
 - ✓ Maintaining genetic diversity of seeds, cultivated plants and farmed and domesticated animals and their related wild species, including through soundly managed and diversified seed and plant banks at the national, regional and international levels, and promote access to and fair and equitable sharing of benefits arising from the utilization of genetic resources and associated traditional knowledge, as internationally agreed.

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
23-25 November 2016, Rawalpindi, Pakistan

- ✓ Developing need-based farm mechanization and Post-harvest technologies of agricultural crops, enhancing milk and meat production, value addition, and developing sustainable production and marketing systems.

4. CONFERENCE VENUE

Pir Mehr Ali Shah Arid Agriculture University, Shamsabad, Murree Road, Rawalpindi, Pakistan.

<http://www.uaar.edu.pk/>

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
 23-25 November 2016, Rawalpindi, Pakistan

5. TENTATIVE PROGRAMME (PARTICIPANTS TO BE CONFIRMED)

Day 1: 23 November 2016

Venue: University Auditorium

Morning Session I	Starting Time	Registration of Participants (Venue: University Auditorium)	
	08:00		
		INTERNATIONAL TECHNICAL SESSIONI: National and Global Dialog: Pakistan Vision 2030 and UN Agenda 2030 (Venue: University Auditorium)	Chaired by: Prof. Dr. Shahbaz Khan (UNESCO)
	08:30	Keynote : AP-FAST Facility for Accelerating Science & Technology Knowledge Services for SDGs into National Development Plans in Asia and the Pacific	Prof. Dr. Shahbaz Khan (UNESCO)
	08:40	Keynote : Pakistan Vision 2030	Mr. Nasir Gilani, (Planning Commission, Pakistan)
	09:00	Keynote	Prof. Dr. Manzoor Soomro (ECO Science Foundation, Pakistan)

**International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions**

23-25 November 2016, Rawalpindi, Pakistan

	09:20	Panel Discussion 1 : A Water Focus (tbc)	<ul style="list-style-type: none"> • Prof. Dr. Rai Niaz Ahmad (VC, Pakistan), • Prof. Soontak Lee (Yeungnam University, RO Korea), • Dr. Olivia O'Castillo (SDS-AP, Philippines), • Prof. Hidayat Pawitan (Bogor Agricultural University, Indonesia), • Dr. Mamoru Miyamoto (ICARM, Japan)
	10:30	Panel Discussion 2: An Food and Energy Focus (tbc)	<ul style="list-style-type: none"> • Mr. Nasir Gilani (Pakistan), • Prof. Kamarulazizi Ibrahim (USM, Malaysia), • Prof. Manzoor Soomro (ECO Science Foundation, Pakistan), • Mr. Yasuhiro Tojo (JICA, Pakistan)
	10:50	Session Conclusion	Prof. Dr. Shahbaz Khan (UNESCO)
Morning Session II	Time	<u>INAUGURAL SESSION</u> (Venue: University Auditorium)	
	11:00	Arrival of the Chief Guest	
	11:05	Pakistan National Anthem	
	11:10	Recitation from The Holy Quran	
	11:15	Hidya-e-Naat	
	11:20	Welcome Address	Prof. Dr. Rai Niaz Ahmad,
	11:30	Welcome Remarks	Ms. Vibeke Jensen, (UNESCO, Islamabad)
	11:40	Key Remarks	H.E. The Ambassador of Japan

**International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions**

23-25 November 2016, Rawalpindi, Pakistan

	11:50	Key Remarks	H.E. The High Commissioner of Malaysia
	12:00	Technical Remarks	Prof. Dr. Shahbaz Khan (UNESCO, Jakarta)
	12:10	Address by Guests of Honour	
	12:30	Address by the Chief Guest	
	12:45	Vote of Thanks	
	12:45	LUNCH & PRAYER BREAK (Prayer Break: 12:45-13:15; Lunch: 13:15-14:00)	
Afternoon Session		INTERNATIONAL TECHNICAL SESSION-II: Disaster Management Session	Chaired by: NDMA
	14:00	Keynote 1: Heart of Asia Initiative	Mr. Ahmad Kamal (NDMA, Pakistan)
	14:20	Keynote 2: PMD	Dr. Ghulam Rasul (PMD, Pakistan)
	14:40	Keynote 3: FFC	Mr. Alamgir Khan (FFC, Pakistan)
	15:00	Keynote 4: DRR in Afghanistan	Mr. Muhammad Sediq Hassani (ANDMA, Afghanistan)
	15:20	Keynote 5: Flood disasters and their long term socioeconomic	Prof. Dr. Saffar Mirjat (Dean, FEA, Tandojam, Pakistan)
	15:40	Panellists Presentation (5 min each)	<ul style="list-style-type: none"> • Mr. Hiromu Inoue (JICA, Pakistan), • Dr. Mamoru Miyamoto (ICHARM, Japan) • Dr. Amir Nawaz Khan (Uni. Peshawar, Pakistan)

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
 23-25 November 2016, Rawalpindi, Pakistan

	15:55	Panel Discussion	Keynote speakers and Panellists
	16:35	Synthesis Panel Discussion	Chair
	16:40	Tea Break	
Evening	18:00	Cultural Show & Welcome Dinner (Venue: University Auditorium & Allied Lawn)	

Day 2: 24 November 2016

Morning Session I		INTERNATIONAL TECHNICAL SESSION-IIIA Nexus Approaches and Livelihood (Venue: Main Seminar Room)	Chaired by: Prof. Soontak Lee (Yeungnam University, RO Korea) Co-Chair: Prof. Dr. Abdul Saboor, (Dean, FSS, PMAS-AAUR, Pakistan)
	09:00	Keynote 1: Sustainable development of the rural area in geoparks in Japan and other Asian nations	Dr. Mahito Watanabe (UGG, AIST, Japan)
	09:20	Keynote 2: Water and food nexus:	Prof. Hidayat Pawitan (Bogor
	09:40	Keynote 3	Dr. Azeem Khan
	10:00	Keynote 4	Prof. Dr. Anwar-ul-Hassan Gilani S.I. (Chairman, PCST, Islamabad)

**International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions**

23-25 November 2016, Rawalpindi, Pakistan

	10:20	Panellists Presentation (5 min each)	<ul style="list-style-type: none"> • Prof Ivan Henares (University of the Philippines, Philippines), • Prof. Zulkifli Yusop (UTM, Malaysia), • Dr. Azmat Hayat (PMD, Pakistan), • Dr. Abid Qayyum Sulehri, (SDPI, Pakistan), • Prof Luan Zhaoqing (Nanjing Forestry University, China)
	10:45	Panel Discussion	Keynote speakers and panellists
	10:55	Synthesis Panel Discussion	Chair
	11:00	Tea Break	
Morning Session II		INTERNATIONAL TECHNICAL SESSION-IVA: Water Planning for the Nexus (Venue: Main Seminar Room)	Chaired by: Dr. Shamsul Mulk <i>H.I.</i> Co-Chair: Dr. Muhammad Ashraf (Chairman, PCRWR)
	11:15	Keynote: Launching "Strategic Water Planning: International Experiences and Practices (UNESCO, ADB, WWF)"	Prof. Soontak Lee (Yeungnam University, RO Korea)
	11:30	Keynote: Water Management of Water Utilities	Dr. Olivia O'Castillo (SDS-AP, Philippines)
	11:45	Keynote	Dr. Arif Anwar (IWMI Pakistan)
	12:00	Keynote	Dr. Muhammad Asif Khan (Karakoram University, GB,

**International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions**

23-25 November 2016, Rawalpindi, Pakistan

	12:15	Panellists presentation (5 min each)	<ul style="list-style-type: none"> • Dr. Asnor Muizan Ishak (DID, Malaysia), • Dr. Tariq Rana (Murray-Darling Basin Authority, Australia), • Prof. Luo Yufeng (Wuhan University, China), • Mr. Fayezurahman Azizi (MEW, Afghanistan), • Mr. Zakir Sial (Irrigation Department Punjab, Pakistan)
	12:40	Panel discussion	Panellists
	13:00	Synthesis of the Discussion	Chair
	13:00	LUNCH and FIELD TRIP	

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
 23-25 November 2016, Rawalpindi, Pakistan

Day 3: 25 November 2016

Venue: University Auditorium

		INTERNATIONAL TECHNICAL SESSION-VII: Energy and Nexus Approaches (Venue: University Auditorium)	Chaired by: Prof. Dr. Rai Niaz Ahmad (VC, PMAS-AAUR) & UNESCO
Morning Session I	09:00	Keynote : Energy in Nexus Approaches	Prof. Kamarulazizi Ibrahim (USM, Malaysia)
	09:15	Keynote : Water and energy nexus including a focus on hydroelectricity with special emphasis on transboundary water and energy	Dr. Jagat Bhusal (Electricity Tariff Fixation Commission, Nepal)
	09:30	Panellists presentation (5 min each)	<ul style="list-style-type: none"> • Dr. Qiang Jiang (Sichuan University, China), • Mr. Ali Tauqeer Sheikh (LEAD, Pakistan), • Mr. Khalid Mohtadullah (LEAD, Pakistan), • Prof. Hamza Gabriel (NUST, Pakistan)
	09:50	Panel discussion	Keynote speakers and Panellists
	10:10	Synthesis Panel discussion	Chair
	10:15	Tea Break	
Morning Session II		BREAKOUT SESSION: Delivering SDGs at the local, national and regional level	
	10:30	Fishbowl discussions into 3groups: on Planning, Disaster management	All participants

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
23-25 November 2016, Rawalpindi, Pakistan

	11:15	Report from each group	All participants
	11:30	Synthesis Fishbowl discussion	Prof. Dr. Shahbaz Khan (UNESCO)
Concluding Session		CONCLUDING SESSION (Venue: University Auditorium)	
	11:50	Guests to be seated	
	11:55	Arrival of the Chief Guest	
	11:58	Recitation from The Holy Quran	
	12:04	Hidya-e-Naat	
	12:10	Summary of Conference Proceedings & Recommendations	Prof. Dr. Shahbaz Khan (UNESCO)
	12:20	Address by the Guests of Honour	
	12:35	Address by the Chief Guest	
	12:50	Closing Address from Prof. Dr. Rai Niaz Ahmad, VC, PMAS-AAUR	
	13:00	Certificates & Shields Distribution	
	13:10	Lunch	
	14:00	Meeting with International Guests	

International Conference:
Asia Pacific Policy Dialogue on Water, Energy and Food Security for Poverty Alleviation in
Dryland Regions
23-25 November 2016, Rawalpindi, Pakistan

CONFERENCE ORGANIZATION

CONFERENCE CO-HOSTS:

- Prof. Dr. Rai Niaz Ahmad, Vice Chancellor, PMAS-AAUR
- Ms. Vibeke Jensen, Representative UNESCO Islamabad

CONFERENCE CO-CHAIRS:

- Prof. Dr. Shahbaz Khan, Director UNESCO Jakarta
- Prof Dr Soontak Lee, Distinguished Professor, Yeungnam University, Republic of Korea
- Prof Dr Kamarulazizi Ibrahim, Director of Centre for Global Sustainability Studies (CGSS), USM, Malaysia.

ORGANIZING COMMITTEE

A) PMAS-AAUR Technical Team

- Prof. Dr. Khalid Saifullah Khan, Director ORIC (Convener)
- Prof. Dr. Ata ul Mohsin, Director External Linkages (Co-convener)
- Prof. Dr. Sarwat Naz Mirza, Registrar
- Prof. Dr. Nadeem Akhtar Abbasi, Dean, FC& FS
- Prof. Dr. Muhammad Saqlan Naqvi, Dean, FS
- Prof. Dr. Muhammad Safdar Anjum, Dean, FV&AS
- Prof. Dr. Maqsood Anwar, Dean, FRW
- Prof. Dr. Muhammad Yasin, Dean, AE&T
- Prof. Dr. Abdul Saboor, Dean, FSS
- Dr. Mobushir Riaz Khan, Director, UIIT
- Dr. Farida Faisal, Director UIMS
- Mr. Nadeem Malik, Principal Officer, PRP

A) UNESCO Technical Team

- Mr. Raza Shah, National Professional Officer, UNESCO Islamabad
- Mr. Junaid Naseem, Knowledge Systems Coordinator, UNESCO Islamabad
- Dr. Ai Sugiura*, Research Analyst for modelling and technical outreach, UNESCO Jakarta
- Ms Joana Vitorica Onaindia*, Consultant, UNESCO Jakarta
- Ms Sharizad Sulaiman*, Malaysia Funds in Trust Coordinator, UNESCO Jakarta

**International Programme Committee*

B) National Key Resources Persons

- Dr. Abdul Majid, Country Manager ICARDA, Islamabad
- Dr. Nadeem Amjad, Chairman PARC, Islamabad
- Dr. Muhammad Ashraf, Chairman PCRWR, Islamabad
- Dr. Muhammad Tariq, Director BARI, Chakwal
- Prof. Dr. Tayyeb Akram, Director COMSATS, Wah Cantt.
- Mr. Syed Muhammad Nasir, IG Forests, Islamabad

INTERNATIONAL KEY RESOURCES PERSONS

- Prof. Dr. Ramesh Kunwar, Iowa State University, USA.
- Dr. Tariq Rana, MDBA, Australia
- Prof. Dr. HuseyinAvni, Konya Food & Agri. University, Turkey.
- Prof. Dr. Alvaro Standardi, University of Perugia, Italy.
- Dr. Mauro Centritto, National Research Council, Sesto Fiorentino, Italy.
- Prof. Dr. Qamar Zaman, Dalhousie University, Canada.
- Prof. Dr. J. F. Punthakey, Charles Sturt University, Australia.
- Prof. Dr. Zhenli He, University of Florida, USA.
