

ADAPTING TO A WORLD WITHOUT GLACIERS: realities, challenges and actions

Lima and Huaraz- July 7 to 15, 2009

agenda

July 6 Review workshop

3:00 to 6:00 pm Meeting with trainers and speakers in Lima

July 7 Lima Conference (Schedule)

*Venue: Pontificia Universidad Católica del Perú- PUCP
--Law Auditorium (morning) and SS.CC Auditorium (afternoon)--*

8:30 to 9:00 am Participants registration

9:00 to 9:10 am **Welcome and Introduction**

- CONCYTEC –TMI
- USAID-NSF
- Ministry of Environment: Official opening of event

9:15 to 01:00 pm **Keynote speakers**

- **Lonnie Thompson**, The Ohio State University: Climate and glaciers
- **Ben Orlove**, University of California, Davis: Glaciers, water, and people

10:45 to 11:15 am *Coffee Break*

- **Marco Zapata**, National Water Authority: Peru perspective: impacts on water”
- **Ministry of Environment** Government of Peru’s response to climate change

1:00 to 3:00 pm *Lunch at venue (Universidad Católica del Perú)*

3:00 to 5:00 pm **Panel - Water: interdisciplinary perspectives from the field**

- Pablo Lagos, Geophysics Institute of Peru: Climate Models
- Bryan Mark, The Ohio State University: Glaciers
- Carlos Amat y León, Universidad del Pacífico: Economy
- Hilda Araujo, Centre for Research and Technology for the Andean Countries (CITPA): Anthropology
- Jeffrey Bury, University of California at Santa Cruz: Social Geography

Rapporteur: Ricardo Giesecke

5:15 to 5:30 pm *Coffee Break*

5:30 to 8:00 pm **Panel - Water: Equity dimensions, co-responsibilities, policies, and normativity**

8:00 pm **Closure: Representative- Pontificia Universidad Católica del Perú**

July 8
Travel to Huaraz

Travel to Huaraz and group dinner at Hotel Andino.

July 9 – 13
Workshop Huaraz

Venue: Andino Hotel Conference Hall, Huaraz

July 9
Presentations and Learning: Climate, Glaciers, Water and Societies

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| 8:30 to 8:40 am | Welcome address |
| 8:40 to 9:30 pm | Brief review for groups: explain workshop agenda, methods, and expectations |
| 9:30 to 11:55 pm | <p>Panel and discussion – “State of the Art - Glaciers and Water”</p> <ul style="list-style-type: none">• Peru: Marcos Zapata, National Water Authority - Glaciology• Ecuador: Xavier Zapata, PhD candidate Florida International University: Hydrology• Bolivia: José Gutierrez, GEF/World Bank: Hydrology• Nepal: Pradeep Mool, International Centre for Integrated Mountain Development: Glaciology• Pakistan: Ghulam Rasul, Pakistan Meteorological Department: Hydrology <p>Chair and Rapporteur</p> |
| 11:35 to 11:55 am | <i>Coffee break</i> |
| 11:55 to 1:05 pm | <p>Local Perspectives on Climate Changes Affecting Glaciers, Water, Culture and Society</p> <ul style="list-style-type: none">• Water conflicts in the Andes- Teresa Ore, Institute of Water Management Promotion (IPROGA)• Andean world view on glaciers, water, and landscapes- Ricardo Claverías, Centre for Research, Education and Development (CIED)• Environmental governance and Andean communities- Jennifer Lipton, Central Washington University• Water supply and impacts on livelihoods- Jeffrey Bury, University of California at Santa Cruz <p>Chair and Rapporteur</p> |
| 1:30 to 3:00 pm | <i>Lunch at venue (Hotel Andino)</i> |
| 3:00 to 4:40 pm | <p>Examples of Changes in Specific Sectors</p> <ul style="list-style-type: none">• Agriculture: Carlos Amat y León, Universidad del Pacifico• Ecosystems and Biodiversity: Kenneth Young, University of Texas at Austin• Water and Future energy demands: Gabriela Rosas, National Service of Meteorology and Hydrology (SENAMHI)• Hazards: John Gierke/Miriam Rios-Sanchez, Michigan Technological University <p>Chair
Rapporteur: Jeff McKenzie</p> |
| 4:40 to 5:10 pm | <p>Presentation: A historical perspective on climate change- Mark Carey, Washington and Lee University</p> |

July 10
Presentations and Learning (Huaraz)

9:00 to 11:20 am

Case Studies from the Field

- Downstream impacts on water and hazards from climate change on glaciers in Northern Pakistan- Faisal Zaidi, Quid-e-Azam University
- Downstream impact on water and hazards from climate change impact on snow and ice in the Hindu Kush – Himalayan region - Mats Eriksson, International Centre for Integrated Mountain Development
- Climate, Culture, and Landscape Change in the Everest Region of Nepal- Alton Byers, The Mountain Institute
- Cotacachi/vanishing glacier- Bob Rhoades, University of Georgia
- Economic impacts of climate change in the Mantaro Valley Peru- Alejandra Martinez, Geophysics Institute of Perú (IGP)
- Peru: Peasant community perspectives on natural resources - Gerardo Damonte, The Group for the Analysis of Development (GRADE)

Chair

Rapporteur: Jorge Recharte

11:20 to 11:40

Coffee Break

11:40 to 1:00 pm

Panel and discussion: Experience, Policy, and Approaches

- Mapping actors and actions in climate change research and action in Peru- Juan Torres, Practical Action (ITDG)
- Range management and hydrology: potential adaptation strategies to climate change impacts in Central Peru- Enrique Flores, Universidad Nacional Agraria La Molina
- Paramo ecosystem of northern Peru and water regulation - Ana Sabogal, Pontificia Universidad Católica del Perú.

1:00 to 2:30 pm

Lunch and Internet Cafe

- Peru's Second Communication on Climate Change- Juan Guerrero Barrantes, Universidad Nacional Agraria La Molina
- Local responses to water stress in Southern Peru- Lenkiza Angulo, Inter-Cooperation.
- Lessons from adaptation to El Niño climatic stress in the Piura Region- Augusto Zegarra, Piura Regional Government
- The Law of Hydrological Resources 29338 as a tool for adaptation to climate change: potentialities and challenges - Julio Alegría, Institute for Water Management Promotion (IPROGA)

4:00 to 4:15 pm

Coffee Break

- Water management technologies in Ancient Peru: resources from the past for adaptation to climate change impacts.
- National policies to promote ecosystems and watershed management as strategies for climate change adaptation (Ministry of Environment)
- Peru research agenda for adaptation to climate change- Juan Tarazona, National Science Council (CONCYTEC).

July 11
Vulnerability and Adaptation Training and Small Groups Work

9:00 to 11:00 am: Vulnerability and Adaptation Training

- USAID V&A training John Furlow, United States Agency for International Development and Glen Anderson, International Resources Group

11:00 to 11:15 am Coffee Break

11:15 to 12:30 am Break Out Groups

- Explain terms of reference and expected outputs for the groups
- Support Resources and facilitation mechanisms (graduate students supporting each group).
- Roles and responsibilities of SG Chairs, Raporteurs, Support
- V&A training and small group work

Groups will produce a synopsis of findings that address the three questions (What is happening, What we need to know, What we need to Do) and correspondingly elaborate a research and action plan.

*12:30 to 2:00 pm Lunch at venue (Hotel Andino)
Jan Sevink's presentation of: The Cordillera Blanca Guide.*

2:00 to 6:00 pm Small group work (includes coffee break)

- Agriculture (2 groups)
- Ecosystems and Biodiversity (2 groups)
- Water and Energy (2 groups)
- Hazards (2 groups)

July 12
Field Day: Glacial Lakes, Glacier Retreat, Andean Communities

7:00 to 6:00 pm Three groups will be organized (20 people per group)

Group #1 Paron Lake. Generation of hydroelectric power and lake management. Observations of climate change impacts and conflicts over use of water for energy production.

Group # 2. Pastoruri glacier. A glacier that is disappearing rapidly. Visit the community of Catac. Observations of climate change impacts.

Group # 3. Yungay. Visit the site of 1970 avalanche and discuss with community leaders the impact of climate change on glaciers and water.

7:00 pm Huaraz

July 13
Small groups Presentation and Synopsis

8:30 to 11:00 pm	Small groups finalize presentations and include photos, examples from field day.
<i>11:00 to 11:30 am</i>	<i>Coffee Break</i>
11:30 to 1:30 am 1:30 pm	Small groups present results to the plenary <i>Bus to "Lazy Dog Inn" (Lunch)</i>
<i>2:00 to 4:30 pm</i>	<i>Lunch and walk with owner Wayne Lamphierre</i>
4: 30 pm	<i>Return to venue in Huaraz</i>
6:00 to 7:00 pm	Public Conference Trial run of synopsis presentations of workshop results
<i>7:00 pm</i>	<i>Dinner</i>

July 14:
Travel to Lima

July 15
Lima: Meeting with Peru Government Agencies

9:00 to 11 am	Presentation of Workshop Results to high-ranking officials in the Government of Peru
9:00 to 9:30 pm	Welcoming Words <ul style="list-style-type: none">• USAID (5 minutes)• Ministry of Environment (5 minutes)• CONCYTEC (20 minutes): Overview of the Huaraz workshop and tasks accomplished
10:00 to 11:00 am	Synopsis presentation of Huaraz Workshop: recommendations and document distribution.
11:00 to 11:15 am	Closing remarks. Minister of Environment: the path ahead.

16 July
Planning Team Debrief, Lessons Learned, Next Steps