



International Congress on Climate Change and its Impacts

I Congreso Internacional del Cambio Climático

Huaraz, PERU

November 29, 30
December 1
2017

Organized by:



SGP
FUNDADA 1924

SECOND CIRCULAR

The Climate Change is one of the most controversial issues today; with frequent debates on the anthropogenic influence over the current global warming, with discussions about the recurrence, intensity and socio-economic impacts of natural disasters, the use of alternative energies and more efficient technologies, and about the responsibility and mitigation actions that should be taken by societies and governments. In fact, Climate Change is one of the topics that most concerns modern societies.

Aware of the need of an academic space where scientific knowledge is keenly encouraged, the Peruvian Geological Society, together with other national and international institutions, invites to participate in the 1st International Congress on Climate Change – ICCCI 2017, to be held in Huaraz, Peru. November 29th to December 1st.

The main goal of the first assembly of the ICCCI is to serve as a meeting point for promoting debates on several topics related to the present and past Climate Change, including diverse perspectives and scientific, economic and social approaches. In this sense, the scientific program mainly contemplates the following thematic fields:

Global warming
and climate change



Records, trends and scenarios.
Greenhouse gases effects.

Past climate
changes



Large-scale Quaternary, and Holocene
proxies and trends.

Slow onset
events



Desertification, glacier retreat, groundwater
stress, soil degradation, sea-level rise, change
of ecosystem composition, expansion of
plagues, epidemics and others.

Social and
economic impacts



Adaptation strategies in the Andean
region and beyond.

Co-Organized by:



ICCCI 2017
Av. 28 de Julio 745,
Miraflores, Lima - Perú
www.sgp.org.pe/iccci
iccci@sgp.org.pe



**Confirmed
Keynote
Speakers**



Ana Rosa Moreno

SCIENTIFIC PROGRAMME

This edition of the ICCCI programme includes three days of oral and poster sessions (November 29th to December 1st, 2017). The scientific programme has been organized into three broad groups: Multiple technical sessions of specific interest, five keynote conferences, and three round tables for open discussion.

She is a biologist from the Universidad Nacional Autónoma de México (UNAM), and holds a Master of Science in Human Ecology from the School of Public Health of the University of Texas, USA. Currently, she is a researcher at the Faculty of Medicine of the UNAM in Mexico. Her professional development is related to environmental health within the public and academic sectors, as well as for international organizations, such as PAHO/WHO, UNEP and UNDP. She was recipient of the 2007 Nobel Peace Prize, as a member of the Intergovernmental Panel on Climate Change, a prize shared with Al Gore.

In the framework of the ICCCI 2017, she will have a keynote entitled: " Cambio Climático y Salud Humana: Riesgos y vulnerabilidad en poblaciones latinoamericanas"; where she will cover issues related to how climate change environmental impacts have an effect on the health and safety of various vulnerable groups in Latin American society.



Mathias Vuille

He is a Professor in the Department of Atmospheric and Environmental Sciences at the University at Albany, State University of New York (SUNY). There he teaches several courses, including Climate Variability and Predictability, Climate Change, Paleoclimatology, and Major Topics in Environmental Science. His research focuses on past, present and future climate change in the tropics with an emphasis on reconstructing past changes in the South American monsoon and understanding the impacts of climate change on glacier mass balance and water resources in the tropical Andes.

As part of the 1st edition of the ICCCI 2017, Dr. Vuille will present a talk entitled: "South American summer monsoon reconstruction over the past millennium from isotopic proxies". He will be speaking about the history of the South American Summer Monsoon (SASM) during the past millennium and how it has responded to changes in external forcings (e.g., solar variations and volcanic eruptions). The presentation will discuss how proxies that incorporate the stable isotopic composition of meteoric waters (speleothems, ice cores, lake sediments, etc.), in combination with isotope-enabled climate models, offer the potential to reconstruct the SASM history along the entire range of the SASM belt, from the Peruvian Andes in the west to the Atlantic coast in the east.



Bernard Francou

He is a specialist on geomorphology and glaciology since 1987, when he got his PhD from the Paris Diderot University. His research interests are focused on understanding high mountains glaciers and periglacial processes in response to climate change.

He worked as researcher at the French National Centre for Scientific Research (CNRS) until 1990, when he joined the Institute of Research for Development (IRD). Currently he serves as Research Director Emeritus at the IRD and the Institut des Géosciences de l'Environnement in Grenoble (France).

Besides his many peer-reviewed publications, reports to the IPCC (2007, 2013), TV documentaries and books, one of his major contributions to science development was contributing to the establish permanent glacier observation networks in the tropical Andes (Bolivia, Peru, Ecuador and Colombia), which serve as a reference to document the current atmospheric warming in low latitude mountains. He will present a keynote talk entitled: "Retreat of mountain glaciers in the world, with a special focus on the tropical Andes", which will include a brief overview on the magnitude of glacier recession by region and an analysis of the link between glacier evolution and atmospheric warming at global scale.



Thierry Lebel

He is an expert on hydrology and hydrometeorology. Currently he serves as Research Director at the Institute of Research for Development (IRD), the Laboratoire d'étude des Transferts en Hydrologie et Environnement (LTHE), and at the French National Centre for Scientific Research (CNRS).

Since young, he has been fascinated by the perpetual movement of water, the mystery of the rain, the power of the torrents and the frozen beauty of the glaciers. Hence his research efforts have been dedicated to understand the impact of climate variability on the water cycle and water resources across intertropical regions, especially in Africa. Recently he was engaged in Mountain climatology, carrying out research both in the Alps and in the Andes.

One of his major achievements was the design and implementation of the African Monsoon Multidisciplinary Analyses AMMA-CATCH observing system, which provides unparalleled rainfall and hydrological information over Niger, Benin and Mali.

CONFIRMED TECHNICAL SESSIONS

Below are some of the technical sessions scheduled to date, the complete list can be visited on the website of the event.



S01

Amazon
Hydroclimatology

S02

Erosion and
sediment
transport

S03

Hidrogeology

S04

The minimum zone
of oxygen, impacts
and evolution

S05

Paleoclimate
of the last 2
thousand years

S06

Vegetation changes
from the Holocene
to present times

S07

Climate changes
during the
Holocene in
continental regions

S08

Climatic changes
from the Holocene
to the recent across
the Equatorial and
Coastal Pacific

S09

Climate Change
Modeling: Present and
future (impacts in Peru)

S010

Impacts of
volcanoes in the
South American
regional climate

S011

Water Resource
Assessments from
Long-Term
Dendrochronological
Records

Call for Session Proposals will be open until June 30th.

We encourage session proposals addressing topics within the four main thematic fields. Appropriated sessions are those focused on interdisciplinary research, on discussing fundamental problems, or discussing regional or global problems. Proposal submission must be accompanied of a format, including a title, a brief description of the session, names of conveners and a list of prospective speakers. Submission proposal can be found here:
www.sgp.org.pe/iccci/presentacion-de-trabajos

POST-CONGRESS EXCURSIONS & FIELD-TRIPS

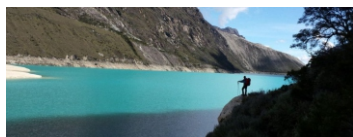
This edition of the ICCCI will have different one-day fieldtrips to the White Cordillera (Cordillera Blanca), where several topics, such as recent glacial and peri-glacial processes, glacial retreat and impacts of the modern global warming, can be discussed onsite. All post-congress excursions will be held on Saturday, December 2nd 2017. Each of them will receive up to 25 participants and will be led by two specialists working on the region. The cost for each field trip will be US \$30 (S/ 100) per person.



EXCURSION 1: Huaraz - Llanganuco Lake

Estimated Time:
10 hours.
Leaving 7:00 AM
Returning 5:00 PM

- Geological interest and topics to discuss:
- Observation, analysis and discussion on geological hazards of glacial origin: Case study Alluvial floods of 1962 and 1970.
 - Visit to the interpretation center of the Huascarán National Park (PNH).
 - Geomorphological observation of glacial and peri-glacial landscapes in the Llanganuco.



EXCURSION 2: Huaraz - Paron Lake

Estimated Time:
10 hours.
Leaving 7:00 AM
Returning 5:00 PM

- Geological interest and topics to discuss:
- Geomorphological observation of glacial and peri-glacial landscapes along the Paron Creek.
 - Observation and control analyses of the water level at the Paron Lake.
 - Advances in different investigations on glaciers and climate change that are being carried out by different centers in the Paron Basin (e.g., INGEMMET, ANA, INAIGEM, SENAMHI).



EXCURSION 3: Huaraz - Pastoruri Snowy Mountain

Estimated Time:
10 hours.
Leaving 7:00 AM
Returning 5:00 PM

- Geological interest and topics to discuss:
- Observation, analysis and discussion on problems and applied research at the Pastouri Snowy Mountain region, with emphasis on eco-systemic services, ecosystems, glaciology (Pastouri glacier) and tourism.



REGISTRATION AND PAPERS SUBMISSION

Registration to the Congress and paper submission is open, and we invite all interested parties to send their contributions (short papers) in the above mentioned topics to:

abstracts.iccci@sgp.org.pe

There will be oral and poster presentations during the Congress, as well as round tables open for discussion covering different topics. Participants will be able to choose the presentation type of their preference (oral or poster) in the application form, but final mode of presentation will be decided by the Scientific Committee and the respective conveners, based on space/time restrictions. Paper submission and oral presentations can be both in English and Spanish, however all submitted papers MUST include an abstract in ENGLISH.

Prepayment discount prices will be open until :
June 30th 2017.

Registration to the Congress includes: the opening ceremony, access to all technical sessions, keynote conferences, and posters exhibition area, conference bag, and an abstracts document.

E-mail for registration:
registration.iccci@sgp.org.pe

Category	Until 30/06/17	Until 30/09/17	Until 28/11/17
General	\$ 200	\$ 250	\$ 350
Member*	\$ 150	\$ 200	\$ 250
Professor	\$ 100	\$ 120	\$ 200
Student	\$ 80	\$ 100	\$ 120

(*) Members SGP, CIP, ANC, SGL

OTHER INFO

- **Congress Venue.** The Congress will be held at Cultural Center of Huaraz, located in the city center, next to the Plaza de Armas.
- **Facilities.** Participants of the ICCCI 2017 may choose from a variety of restaurants in the close vicinity of the Congress venue. Lunch menu varies from S/ 12 to 15 (US\$ 3 to 5).
- **Accommodation.** The city of Huaraz has a great diversity of hotels, offering different types of services. Prices for single rooms typically range from S/ 80 to 120 (US\$ 25 to 37), while double rooms between S/ 100 and 150 (US\$ 30 to 45). More info can be found on the Congress website.
- **Transportation.** Public transportation and taxi services to and from the center of the city are provided on a 24h basis. One-way ticket costs S/1 (US\$ 0.30), while taxi fees depend on the distance, time of travel, traffic load, etc., but normally should not exceed S/5 (US\$ 1.50) for any route within the city limits.
- **Arrival by airplane.** The LC Peru airline operates flights from Lima to Huaraz every day at 5:30am; the return journey leaves at 7:05am. The Huaraz airport is actually located at Anta, 23 km north of town. A taxi will cost about S/130 (US\$ 40). Participants interested on getting around by air are strongly recommended to book air travel as early as possible, as Huaraz has very few flight services per day. Also note that airport services can be cancelled or delayed without notice by

weather conditions (dense clouds).

- **Arrival by bus.** This is the most common mean to travel to/from Huaraz. There are national daily bus arrivals and departures from and to several destinations, which are served by a dense network of companies, including Cruz del Sur, Móvil Tours, Oltursa, Línea, Z bus. Bus transport is generally safe and comfortable. The distance to Huaraz from Lima is 408 km (8 hours trip). Timetables and price tickets depend on each company, however they usually range from S/40 to S/80 (US\$ 10 to 25).
- **Insurance.** Travel insurance and medical care, if needed, are solely under the responsibility of the participants. One of the best clinics in the city, according to the Lonely Planet guide, is Clínica San Pablo located north of town; there you may find some English-speaking physicians.
- **Climate and Clothing.** Weather is usually rainy and coldish in late November. Temperatures generally vary from 5-15°C. Generally one should expect cold days, probably with high humidity requiring warmer clothing. Huaraz is a high-mountain city (3,052 m = 10,013 ft), therefore be aware you can experience mountain sickness, feel breathless or have headache during your first few days. In case you decide to participate in any of the programmed field excursions, you must have the proper equipment (thermal clothes, trekking boots, gloves, mountain caps, etc.)

We are looking forward to see you all in Huaraz!