

INTERNATIONAL ASSOCIATION OF GEOMORPHOLOGISTS



Athens 15 July 2018

“Geomorphology of Climatically and Tectonically sensitive areas”

General

The IAG's Regional Conference will take place in Athens. Athens is the capital of Greece with a continuous history of 2,500 yrs. You can easily reach the city using the Athens International Airport, a modern and safe airport which constructed before the Olympic Games of 2004. The harbor of Piraeus is located a few kilometers away the city Center of Athens and is connected by ferries with the Greek islands where the conference field trips will take place.

Aims and Topics of the RCG 2019

The geomorphology of the landscape represents the dynamic between creative and destructive processes. The interaction of these processes forms, modifies, or destroys geomorphic features on the Earth's surface. Landforms and landscape is the result of uplift and erosion, both of which are moderated by tectonic and climatic boundary conditions. Rivers, hillslopes, coastlines, and other features of the Earth's surface are physical systems, which respond to driving variables of force and material delivery. Over long periods, features of the landscape come into dynamic equilibrium with their inputs assuming that the driving variables reach an equilibrium as well. Surface features of the earth respond in the same manner, with a time lag in response to a change in driving variables. This lag time (reaction time plus relaxation time) is generally a period of instability. The term instability indicates rapid morphological change, increased movement of sediment (erosion, mass wasting, deposition), shifts in vegetative cover or type, accelerated change in hydrologic processes (such as from snow to rain or glacial ice to snow), and/or rates of change that are in excess of what can be sustained in the long-term.

Over geologic time, tectonic forces through the time-integrated effects of surface and rock uplift/subsidence, and crustal deformation produce earth relief. The resulting relief is significantly modified by erosion: a process that is strongly controlled by climate. The form and evolution of a landscape is therefore determined by several fundamental controls, including tectonics, erosion, climate, lithology, and pre-existing geomorphology. Physical systems respond to a disturbance by altering their morphology to accommodate the new driving forces. How a geomorphological system responds to change also depends on the presence of positive or negative feedback processes. A negative feedback process is one that tends to restore the system to its previous state when it is disturbed, while a positive feedback process tends to accelerate the disturbance. Hence, systems with negative feedback tend to be stable, while positive feedback systems are unstable.

The sensitivity of the Earth system is defined by the system specifications that describe its propensity for change and its ability to absorb any disturbing forces.

Evidences of global climate change/warming includes widespread increases in average air and ocean temperatures, accelerated melting of glaciers, rising sea level, extreme climatic events, hurricanes, flash floods and extreme droughts. Given the increasing certainty that climate change is occurring and is

accelerating, we can no longer assume that climate conditions in the future will resemble those in the past. Climate change represents a disturbance to the driving variables. Earth's atmosphere and ocean systems both raise several questions regarding the potential impacts of such change on water resources, agriculture, and ecosystems, three issues with immense importance to society.

This Regional Conference on Geomorphology (IAG) expectations are the new challenges for the geoscientists and especially the geomorphologists to better understand the response of the Earth system, approaching with new techniques and methods, making new assessments and predictions for the future and contribute to the human society's adaptation and preparedness.

Dates September 2019

September 15th – 18th, 2019, Pre-Conference Field Trip, Mykonos & Delos Islands

September 15th – 18th, 2019, Pre-Conference Field Trip, Santorini Island

September 19th – 21st, 2019, IAG's Regional Conference, Athens

September 22nd -25th, 2019, Post-Conference Field Trip, Rhodes Island, in the memory of Paolo Pirazzoli

Conference fees

Early Registration (with/without discount): 250€ / 300€

Regular Registration (with/without discount): 300€/350€

Late Registration (with/without discount): 350€ / 400€

Students, Honorary Fellows, Retired, National delegates: 180€

Accompanied Person: 100€

All the participants can apply for a discount on the conference fee, whenever their country (National Scientific Member) is financially-settled with the IAG's annual fee.

The fee includes coffee, finger food lunch, and visit to the Acropolis Museum.

The gala dinner is not included in Conference Fee.

Venue

19 & 20/09/2019 National and Kapodistrian University of Athens Conference Center, Historical Building, 30 Panepistimiou Str., Athens, Greece

21/09/2019 Auditorium of the Acropolis Museum. It has a capacity of 204 seats and is located on the ground floor of the Museum. A guided tour to the museum will be included in the conference programme.

Organizers

The Greek Committee for Geomorphology & Environment of the Geological Association of Greece, IAG/AIG national member for Greece.

Co-Organizers

National and Kapodistrian University of Athens

Aristotle University of Thessaloniki

University of Patras

Hellenic Centre of Marine Research

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Scientific Sessions

In progress ...

The final themes of the scientific sessions of the conference including the special sessions and the Chairpersons will be announced with the second circular at the beginning of June (31/10/2018) or earlier on the updated website of the conference.

Proposed list of scientific sessions

Applied Geomorphology
Climate change
Coastal geomorphology
Coastal Management
Extreme Events in Geomorphology
Geoarchaeology
Geomorphological Hazards and Risks
Geomorphology of rocky coasts
Karst geomorphology
Palaeogeography
Quantitative geomorphology and Management
Sea level indicators
Submarine geomorphology
Tectonic geomorphology
Other sessions

Young Geomorphologists Training school on coastal geomorphology

In the framework of post-conference activities of 2019 IAG's Regional Conference, a Summer School on coastal geomorphology intended for international motivated early career scientists (advanced post-graduate students, PhDs, and post-docs) will take place from 22-27 September 2019 combining a hands-on field learning approach on Attica and NE Peloponnese coasts with state of the art theory, laboratory analysis and indoor data process courses held in the Hellenic Centre for Marine Research faculties (Anavyssos, Attica).

Alternatively, the summer school can be taken place in the tectonically uplifted coasts of Rhodes Island using the faculties of the Hydrobiological Station of Rhodes (HCMR). In this case, the trainees' cost will increase by 100-150 € due to the airplane fare.

Fellowships

The registration fee for the participation of max 10 geomorphologists will be covered by the conference.

Important dates

First circular	:	July 2018
Second circular	:	31/10/2018
Call for abstracts	:	31/10/2018
Abstract Submission will be closed on	:	30/04/2019
Early Bird Registration will be closed on	:	15/05/2019
Regular Registration will be closed on	:	31/07/2019
Late Registration	:	From August 1 st , 2019 onwards
Field Trip Participation Fee	:	01/09/2018, updated every 4 – 6 months

