



Form IV

ANNEX of the
Annual Report

2024 – Meeting Report

IGCP Project number and Title: ____ IGCP-669 Identification of seismogenic faults in populated areas of Latin America and its incorporation into seismic hazard assessment

1. MEETING(S):

Two on-site meetings were held at San José (Costa Rica (during the V Assembly of LAQS meeting: JULY) and at Los Andes (Chile, during the PATA-days meeting 6-11 October 2024). Additionally, a group field trip was organized in the frame of the II IGCP-669 training school in Mendoza (Argentina) on the 29th of November 2024.

2. SCOPE AND RESULTS OF MEETING:

Scope of Meeting (program or outline of geological study).

-V Assembly of Latin American and Caribbean Seismological Commission (<https://web.cvent.com/event/570bf8ac-3864-46be-af3f-9a152d88afdf/websitePage:b817ea76-1a6f-44c1-96ec-e7277ad6c713> and). Pierre Lacan, proposer of the IGCP 669, led a special session focus on the project, together with Gerardo Suarez and Rodrigo León. The scope of the session was “Characterization of Latin American and Caribbean crustal faults based on earthquake geology”. One of the talks of the session focused on the OLLIN 669 projects achievement in Mexico.

FOUR YEARS OF THE OLLIN 669-IGCP PROJECT IN MEXICO: ACTIVE FAULTING AND SEISMIC ...

11:20 AM-11:40 AM

Room Turrialba

Co-authors: the OLLIN TEAM

Pierre Lacan

Presentation type

Oral Presentation

-12th PATA-days INQUA (Paleoseismology, Active Tectonics, Archaeoseismology) hold in Chile during 6th – 11th October 2024. The IGCP-669 was included among the sponsors (<https://www.patadayschile.cl/>). The meeting was organized by several OLLIN members (Gabriel Easton, Gabriel González, Carlos Costa, José González Alfaro), and OLLIN IGCP 669 was one of the sponsors (through 5 grants to ECR).

-Field trip during the II OLLIN Training school in Mendoza (Argentina), led by Stella Moreiras.

Achievements of Meeting

-V Assembly of LACS- 2024. The Assembly gathered 126 oral presentations and 49 poster presentations across 13 thematic sessions, one of each focused on Earthquake Geology as mentioned before.

-12th PATA days 2024. The Meeting was hold for first time in South America. The meeting gathered scientist from all over the planet and included field trips to visit a unique tectonic setting for the assessment of megathrust episodes, upper-plate paleo-earthquakes, and paleotsunami records, and their relationship with surface processes and landscape evolution at the Quaternary timescale (active margin formed by the subduction of the Nazca Plate beneath the South American Plate). Among the participants of the project, 21 of them were members of the 669-IGCP OLLIN network. The abstracts of the meetings are not yet uploaded in the web page but will be soon. A good number of posters and oral communications were on active faults characterization in Latin America. Also, during the meeting, the participants visited several outcrops where fault activity of the San Ramon and Cariño Botado fault was explained (led by G. Easton).

-During one-day Field trip (29th November) of the II 669-IGCP training school, several outcrops showing neotectonics evidence near Mendoza (Argentina) were visited. The 13 participants of the course had the chance to visit and discuss several active faults in the area: La Cal, Divisadero Largo and Cerro La Gloria.

Outcome of Meeting

-LACS- 2024. The meeting was a key starting point for the future collaboration between Mexico and Costa Rica. Pierre Lacan (UNAM, Mexico) is preparing a proposal to start a new project in collaboration with Alejandro Argüello (Escuela Centroamericana de Geología, Universidad de Costa Rica) to study crustal faults in Costa Rica. Accordingly, a new region (Central America) is going to be consider to be included as part of the OLLIN activities.

-We must highlight the large participation of young members of the network in the PATA-days meeting. It was an excellent opportunity allowing the ECRs to meet and feel that they are part of IGCP 669 initiative. We made it possible through the collboartion between INQUA members (TEPRO group) and OLLIN members within the scientific committee evaluating the grants application. This allowed to complement the inscriptions and the travel grants, allowing ECRs from different parts of the Latin America to attend PATA-days. This is remarkable since only covering the inscription would have not allowed most of them to travel to Chile. We hope some of these ECRs will be prompt to “take the stick” in futures editions of IGCP calls and also will be involved in taking part or organizing the activities planned for the next months of 669-IGCP.

- In the frame of the organization of the II 669 IGCP training school, a 2 years project was designed and finally approved by the Spanish Geological Survey (IGME-CSIC) with near 30,000 euros. It will allow 12 members of IGCP-669 from Spain, France, Argentina and Peru to cooperate during 2025-2026, with the aim to obtain in a collaborative way, seismic hazard models for Cusco (Perú) and Mendoza (Argentina), by integrating the characteristics of active faults located in the surroundings.

Also, as an outcome of the course, Carlos Benavente offered to organize the III training School of 669 IGCP in Perú in 2025.

PICTURE GALLERY



Group photo during the LACS Assembly (Costa Rica), June 2024



General photo of the PATA-days participants (Chile), October 2024



Presentation of two of the young ECRs of the OLLIN network, Samira M. Lluno and Henry P. Conteron from Ikiam uni., Ecuador, during the PATA-days in Chile, October, 2024



Group photo during the field trip of the II OLLIN training School (Mendoza), November 2024



Hands-on session on fault2SHA tools during the II OLLIN training School (Mendoza), November 2024

Signature of Project Leader and Date