

80th anniversary of Paricutin volcano, February 19-24, 2023

Pre-conference field trip

“Geoheritage of Xitle volcano, Mexico City” (3 days): Thursday 16 – Saturday 18, February 2023

Participants: Minimum: 6; maximum: 20.

Vehicles: Two minibuses

Leaders: Marie-Noëlle Guilbaud*, Pilar Ortega, Silke Cram, Alejandro Pastrana

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Objective: Discover geosites related to Xitle volcano, Mexico City.

References: Guilbaud, M.-N., Ortega-Larrocea M.P., Cram, S., van Wyk de Vries, B. (2021) Xitle Volcano Geoheritage, Mexico City: Raising awareness on natural hazards and environmental sustainability in active volcanic areas. *Geoheritage* vol. 13 (6), 27p.

<https://doi.org/10.1007/s12371-020-00525-9>

Palacio Prieto, J.L., Guilbaud, M.-N. (2015) Patrimonio natural de la Reserva Ecológica del Pedregal de San Ángel y áreas cercanas: sitios de interés geológico y geomorfológico, *Boletín de la Sociedad Geológica Mexicana*, v. 67 (2), p. 227-244.

https://www.scielo.org.mx/scielo.php?script=sci_arttext&pid=S1405-33222015000200008.

Itinerary

Thursday, February 16:

8 am. Meeting at the Geophysics Institute, campus UNAM, Mexico City

9 am – 3 pm. Climb of Xitle volcano and visit of lava tubes in late lava flows. Observation of geological, biological and pedological features. Eruptive style. Endemic vegetation. Soil formation. View of Mexico Basin and surrounding volcanic ridges (if clear sky). Volcanic and tectonic context. Themes of volcanic hazards and conservation.

Lunch on site.

Friday, February 17:

Morning: Cuicuilco archaeological site. Impact of the eruption and first urban site in Mexico basin.

Lunch: Club del Académico, campus UNAM

Afternoon: Oriental Quarry, Ecological Reserve (REPSA), campus UNAM. Forty meter thick cut across pile of lava from the volcano. Emplacement mode of pahoehoe lavas.

Hydrological role (lakes). Biological reserve.

Saturday, February 18:

Morning: Geopedregal educational site and geopath, campus UNAM. Geodiversity and biodiversity of *pedregales* (remaining lava outcrops in campus). Conservation issues.

Outdoor learning.

Optional activities: Botanical Garden (UNAM campus); Anahuacalli museum (Coyoacán).

Costs

50 USD per participant. Includes lunches and transportation.

Does not include the cost and reservation of hotel rooms. Special prices for the hotel may be sought, depending on the interest of participants.