Projects of Seismic Risk and Active Tectonics (RNM-370)

Coordinator: Dr. José Antonio Peláez Montilla (japelaez [arroba] ujaen [punto] es)

Banner of an image where a laptop and some batteries appear.

The research group "Seismic Risk and Active Tectonics " is specialized in the study of lithospheric tectonic processes, seismicity and the relationship between them, essentially, but not only, in the domain of the Baetic System, the Guadalquivir Depression and North Africa. Another line of specialization refers to the study of seismic hazard, including site effects based, among others, on current seismicity behavior, historical seismicity and archaeoseismicity.

Ongoing projects

Estudios de Potencial Sísmico en el Curso Alto del Guadalquivir

- Founding entity: Andalucía ERDF 2014-2020 – University of Jaén announcement 2018
- Duration, from 2020 from 2021
- Researcher in charge: José A. Peláez (UJA) - Carlos Marín Lechado (IGME)

Seismic potential studies in the upper course of the Guadalquivir River

- Founding entity: Andalucía ERDF 2014-2020
- Duration, from 2020, from 2021
- Researcher in charge: José A. Peláez (UJA)

Finished projects

Identification, analysis, inventorying and enhancement of the defensive military architecture of the Spanish Civil War in the province of Jaén: heritage education

- Founding entity: Institute of Giennense Studies
- Duration, from 2018, from 2019
- Researcher in charge: S. Jaén Milla (University of Jaén)

Recent and active deformation across the central sector of the Betic-Rif Cordilleras and the Alboran Sea: Geohazard factors

- Founding entity: D.G.I.-M.E.C. (CGL2016-80687-R)
- Duration, from 2016, from 2019
- Researcher in charge: J. Galindo Zaldívar (University of Granada)

Evaluation of seismic-induced landslide hazard

- Founding entity: D.G.I.-M.E.C. (CGL2015-65602-R)
- Duration, from 2016, from 2019
- Researcher in charge: J. Delgado Marchal (University of Alicante)

Economic incentive to the research project: Geological, Geophysical and Geodetic studies for the seismic potential and seismic microzonation assessment in the upper course of the river Guadalquivir. Microzonation of the Torreperogil and Sabiote (Jaén, Spain) towns

- Founding entity: Provincial Deputation of Jaén
- Duration, from 2013, from 2015
- Researcher in charge: J.A. Peláez

Kinematic modelling of the Galera and Baza active fault zones. A multidisciplinary approach

- Founding entity: University of Jaén (UJA2014/06/17)
- Duration, from 2015, from 2017
- Researcher in charge: F.J. García Tortosa (University of Jaén)

Detection and correction of training gaps that hinder the learning of Physics in the first year of University

- Founding entity: University of Jaén (PID8_201315)
- Duration, from 2013, from 2015
- Researcher in charge: M.M. Ramos Tejada (University of Jaén)

Economic incentive to the research project: Geological, Geophysical and Geodetic studies for the seismic potential and seismic microzonation assessment in the upper course of the river Guadalquivir

- Founding entity: CEACTierra - University of Jaén
- Duration, from 2013, from 2014
- Researcher in charge: J.A. Peláez

Morphopedosedimentary units analysis and alluvial geoarchaeology in the Guadiana Menor valley (Huesa-Larva sector): record of environmental and geomorphological changes during the recent Quaternary period

- Founding entity: Institute of Giennense Studies
- Duration, from 2012, from 2013
- Researcher in charge: F. García García (University of Jaén)

Tectonics, paleoseismicity and seismic potential of active faults in the middle and eastern parts of the Betic Cordillera

- Founding entity: D.G.I.-M.E.C. (CGL2011-30153-C02-02)
- Duration, from 2011, from 2014
- Researcher in charge: P. Alfaro García (University of Alicante)

Recent deformations in the northern border of the Betic Cordillera: paleoseismic implications

- Founding entity: University of Jaén (UJA2010/14/04)
- Duration, from 2011, from 2012
- Researcher in charge: M. Sánchez Gómez (University of Jaén)

Earthquake Archaeology. Archaeoseismology along the Alpine-Himalayan seismic zone

- Founding entity: I.U.G.S.-U.N.E.S.C.O. (IGCP 567)
- Duration, from 2008, from 2012
- Researcher in charge: M. Sintubin (Katholieke Universiteit Leuven, Belgium)

Seismic Hazard Harmonization in Europe (SHARE). Netwoking activity: European Earthquake Database

- Founding entity: 7th F.P.E.C.
- Duration, from 2009, from 2011
- Researcher in charge: M. Stucchi (Istituto Nazionale di Geofisica e Vulcanologia, Italy)