

International Training Course on Seismology, Seismic Data Analysis, Hazard Assessment and Risk Mitigation

Potsdam, Germany , August 12 to September 6, 2019

The international training course "Seismology and Seismic Risk Assessment" was conducted at the German Geosciences Research Center GFZ (Potsdam, Germany) from August 12 to September 6, 2019. The GFZ-funded course is supported by UNESCO and co-financed by the Federal Foreign Office.



Opening of the International Training Course on August 12, 2019

(Photo: D. Kroll, GFZ)

The four-week intensive course is aimed at young scientists and students from developing countries worldwide to support observation and monitoring practice and to learn the latest techniques and tools for scientific and engineering applications. Theoretical lectures, computer based exercises, real data applications, scientific excursions and symposia cover seismology, engineering seismology, hazard and risk assessment, satellite monitoring (InSAR) and modelling. The New Manual of Observatory Practice (NMSOP) contains important background information provided during the course and is available online (<http://bib.telegrafenberg.de/en/publishing/distribution/nmsop/>).

For the course in 2019, we received 205 applications from 62 countries worldwide, from which a selection committee selected and invited 26 participants for the 2019 course. The participants came from Afghanistan, Albania, Argentina, China, Colombia, Congo DR, Costa Rica, Egypt, India (2), Indonesia, Iran (2), Kirgizstan, Madagascar, Malawi, Mongolia, Nicaragua, North Macedonia, Oman, Pakistan, Tajikistan (2), Thailand, Trinidad-Tobago und Turkey.

In 2019, a project qualification programme was linked to the course for the first time as an extension of further qualification. Following the training course, former course participants can apply for a project stay in Germany at the GFZ in order to initiate their own developments and applications in their home country that support seismic hazard analysis.

The international team of lecturers consists of experts from various fields of seismology and engineering. Lecturers in 2019 came from GFZ Potsdam, the Federal Office of Civil Protection and Disaster Assistance (BBK), Bonn, Germany, the German Aerospace Center (DLR), Oberpfaffenhofen, Germany, the International Search and Rescue, I ·S·A·R, Kleve, Germany, the Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (INOGS), Italy, and the University of Bergen, Norway.

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List of lecturers

GFZ German Research Centre for Geosciences, Potsdam, Germany

Section 2.1, Physics of Earthquakes and Volcanoes

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Section 2.4, Seismology

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Section 2.5, Geodynamic Modeling

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Section 2.6, Seismic Hazard and stress field

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