

Tenerife International Training Course on Geothermal Exploration

Course Syllabus

March 22, 2018	Thursday	
09:00 - 10:00	Surface geothermal exploration: An overview	<i>Nemesio Pérez</i>
10:00 - 11:00	Electromagnetic methods for geothermal exploration: An overview	<i>Katarzyna Ślęzak</i>
11:00 - 11:30	Coffe break	
11:30 - 12:30	Gravimetric methods for geothermal exploration	<i>Guillermo Caravantes</i>
12:30 - 13:30	Hydrothermal gas equilibria for geothermal exploration	<i>Giovanni Chiodini</i>
13:30 - 14:30	Lunch	
14:30 - 15:30	Magnetotellurics: basic principles	<i>Juan Ledo</i>
15:30 - 16:30	Passive seismic studies for geothermal exploration	<i>Luca D'Auria</i>
16:30 - 17:00	Coffe break	
17:00 - 18:00	Soil and soil-gas surveys for geothermal exploration	<i>Nemesio Pérez</i>

March 23, 2018	Friday	
09:00 - 10:00	Magnetotellurics: application to geothermal systems	<i>Juan Ledo</i>
10:00 - 11:00	Measuring the thermal energy output from geothermal systems: the chloride and the soil diffuse CO ₂ flux methods	<i>Giovanni Chiodini</i>
11:00 - 11:30	Coffe break	
11:30 - 12:30	Magnetics studies for geothermal exploration	<i>Ángel Rodríguez Santana</i>
12:30 - 13:30	Geothermal heat transported by 'cold' groundwater system: the case of Apennines (Italy)	<i>Giovanni Chiodini</i>
13:30 - 14:30	Lunch	
14:30 - 15:30	Fluid-rock interaction in geothermal systems	<i>Manfred van Bergen</i>
15:30 - 16:30	Seismic methods for geothermal exploration	<i>Luca D'Auria</i>
16:30 - 17:00	Coffe break	
17:00 - 18:00	Surface and subsurface thermal mapping for geothermal exploration	<i>Eleazar Padrón, Antonio Eff-Darwich</i>

March 24, 2018	Saturday	
09:00 - 18:00	Field trip: Explosive activity in Tenerife	<i>Hans-Ulrich Schmincke, Alexis Schwartz</i>

March 25, 2018	Sunday	
09:00 - 18:00	Field trip: The 1706 Garachico eruption	<i>Javier Dóniz Páez, David Calvo</i>

March 26, 2018	Monday	
09:00 - 18:00	Geochemistry Field Work	<i>María Asensio, Gladys Melián, Fátima Rodríguez</i>

March 27, 2018	Tuesday	
09:00 - 18:00	Magnetotellurics Field Work	<i>Katarzyna Ślęzak, Marta García, Fátima Rodríguez</i>

March 28, 2018	Wednesday	
09:00 - 10:00	Ground deformation and thermal mapping by remote sensing techniques for geothermal exploration	<i>Pietro Tizzani</i>
10:00 - 11:00	Ambient noise tomography	<i>Jean Soubestre</i>
11:00 - 11:30	Coffe break	
11:30 - 12:30	Surface temperature mapping for geothermal exploration lab exercise	<i>Eleazar Padrón</i>
12:30 - 13:30	Diffuse degassing for geothermal exploration lab exercise	<i>Eleazar Padrón</i>
13:30 - 14:30	Lunch	
14:30 - 15:30	MT surface exploration lab exercise I	<i>Katarzyna Ślęzak</i>
15:30 - 16:30	MT surface exploration lab exercise II	<i>Katarzyna Ślęzak</i>
16:30 - 17:00	Coffe break	
17:00 - 18:00	Evaluation of non-conventional geothermal potential in Italy	<i>Pietro Tizzani</i>