

# ETNA INTERNATIONAL TRAINING SCHOOL OF GEOCHEMISTRY

## SCIENCE MEETS PRACTICE



**SECOND CALL**

The “Etna International Training School of Geochemistry 2018. Science meets Practice” is hosted in Mt. Etna (Italy) at the “Osservatorio Vulcanologico Pizzi Deneri”, from **30 July to 4 August of 2018**. It is addressed to **MSc holders, PhD students and postdoctoral researchers**. Its main aim is to bring together the next generation of researchers, active in studies concerning geochemistry, and to introduce them with innovative direct sampling and remote sensing techniques.



The “Osservatorio Vulcanologico Pizzi Deneri”, one of the most important monitoring site of the INGV of Catania - [Osservatorio Etneo](#), was built on the rim of the Ellittico caldera, in the base of the North-East crater at an altitude of 2,850 m a.s.l., near the Valle del Leone. The Pizzi Deneri observatory is a unique place close to the top of the most active volcano of Europe.

The International Training School of Geochemistry is going to keep a low-cost philosophy, providing students with a unique field experience supported by a group of expert teachers in a spectacular volcanic scenery. Furthermore, it gives young scientists an opportunity to experiment and evaluate new protocols and techniques to be used on volcanic fluid emissions covering a broad variety of methods.



**SCIENTIFIC PROGRAM**

### Lectures

- Etna, a volcano in an identity crisis?**  
*Boris Behncke (INGV of Catania, Osservatorio Etneo, Italy)*
- Volcanoes as air contaminant sources**  
*Franco Tassi (University of Florence, Italy)*
- Remote Sensing of Volcanic Gases**  
*Nicole Bobrowski (Max Planck Institute for Chemistry, Germany)*
- Global variability and trends in volcanic gas composition**  
*Alessandro Aiuppa (University of Palermo, Italy)*
- Sampling of bubbling gases and groundwater**  
*Walter D’Alessandro (INGV of Palermo, Italy)*
- Direct gas sampling and applications to investigate volatile sources.**  
*Tobias Fischer (University of New Mexico Center for Stable Isotopes, USA)*
- Isotope systematics of hydrothermal fluids.**  
*Andri Stefánsson (University of Iceland, Reykjavik Iceland)*
- Origin(s) of hydrocarbons in volcanic-hydrothermal emissions**  
*Jens Fiebig (Goethe-Universität Frankfurt am Main, Germany)*
- Temporal and spatial variations on soil CO<sub>2</sub> diffuse degassing areas**  
*Fatima Viveiros (University of the Azores, Portugal)*
- Radon in soil gas: methods of detection and applications to Volcanology**  
*Salvatore Giammanco (INGV of Catania, Osservatorio Etneo, Italy)*

### Field activities

- \* **Excursion to the active craters of Mt. Etna. Sampling of plume and fumaroles by direct sampling methods and remote sensing techniques.**  
*Giovanni Giuffrida, Sergio Calabrese, Franco Tassi, Francesco Capecciacci, Nicole Bobrowski, Giancarlo Tamburello, Marcello Bitetto, Tobias Fischer, Jens Fiebig, Andri Stefánsson .*
- \* **Field measurements of soil diffuse degassing (CO<sub>2</sub> and Rn) in the summit and distal anomalous areas.**  
*Fatima Viveiros, Salvatore Giammanco, Giovannella Pecoraino.*
- \* **Visit of mud volcanoes (Salinelle di Paternò) and springs fed by the volcanic aquifer of Etna (Acqua Grassa and Fondachello). Sampling of bubbling gases and groundwater.**  
*Walter D’Alessandro, Sergio Calabrese, Franco Tassi, Francesco Capecciacci Kyriaki Daskalopoulou, Giovannella Pecoraino, Jens Fiebig, Andri Stefánsson .*

Photos by S. Calabrese



SECOND CALL

## Application Information

### Participation fee

The cost of the workshop is **300 €**, which includes fees, accommodation (5 nights), meals and transportations (Catania - observatory and back; field activities). The participation fee does not cover travel expenses to Catania (Italy).

**Note:** One grant will be allocated to one student admitted to the "Etna International School of Geochemistry, 2018". The grant will be given by the [SoGel](#) (Società Geochimica Italiana) and will only cover the participation fee.

### Selection criteria

The available positions are **16** and are going to be dispensed to applicants of all levels requested above. Major selection factors will include: i) curriculum vitae; ii) statement of interest; iii) abstract of the ongoing research; iv) country of provenance.

### Application

To apply, candidates have to fill the application form: <https://sites.google.com/site/etnapizzideneri/application-form>

and provide: i) a two-page **curriculum vitae**; ii) a list of **publications**; iii) a **statement of interest** (500-1000 words); iv) two **recommendation letters**; v) an **abstract** of the ongoing research (100-500 words).

**Application deadline: 29 April 2018 at 12:00am UTC**

*Final decisions will be announced by the end of May. All participants will be personally informed by e-mail.*

Follow us in the following web site: <https://sites.google.com/site/etnapizzideneri/home>

Feel free to become a member of our group: <https://www.facebook.com/groups/410040556001074>

Like our Facebook page: <https://www.facebook.com/etnapizzideneri/>

Who are we?

### Scientific Committee

- Sergio Calabrese, University of Palermo (Italy)
- Franco Tassi, University of Florence (Italy)
- Nicole Bobrowski, Max Planck Institute for Chemistry (Germany)
- Giovannella Pecoraino, INGV of Palermo (Italy)
- Giovanni Giuffrida, INGV of Palermo (Italy)
- Salvatore Giammanco, INGV of Catania - Osservatorio Etneo (Italy)
- Kyriaki Daskalopoulou, University of Palermo/Athens (Italy/Greece)
- Fatima Viveiros, IVAR - University of the Azores (Portugal)

### Organizing Committee

- Marcello Bitetto, University of Palermo (Italy)
- Luciana Randazzo, University of Calabria (Italy)
- Giancarlo Tamburello, INGV of Bologna (Italy)
- Salvatore Consoli, INGV of Catania - Osservatorio Etneo (Italy)
- Massimo Cantarero, INGV of Catania - Osservatorio Etneo (Italy)
- Stefania Venturi, CNR-IGG Firenze (Italy)
- Francesco Capecciacci, University of Florence (Italy)
- Jonas Kuhn, University of Heidelberg (Germany)
- Lorenza Li Vigni, Associazione Geode (Italy)

Photos by S. Calabrese

