



## IAVCEI Commission on Volcano Geology 3rd International Workshop Etna-Aeolian Islands, July 3-10 2016



# GEOLOGICAL FIELDWORK IN VOLCANIC AREAS

## MAPPING TECHNIQUES AND APPLICATIONS

### ORGANIZERS

- S. Branca, E. De Beni (*INGV-OE, Italy*)
- G. Groppelli (*CNR-IDPA, Italy*)
- F. Lucchi (*BIGEA, University of Bologna, Italy*)
- R. Sulpizio (*DSTG, University of Bari, Italy*)

The 3rd workshop on Volcano Geology is the ideal prosecution of the first two, held in Madeira (Portugal) on July 2014 and in Prague on July 2015, hosted by IUGG meeting. It aims to be a forum to present and discuss the current topics of the geological studies in modern Volcanology, and to examine the first steps of the just established IAVCEI commission on Volcano Geology. This workshop will be particularly focused on discussing the state of the art of geological fieldwork and mapping in volcanic areas, which are the baseline for understanding the volcano behaviour and its associated hazards.

We plan some keynote lectures and a poster session to promote a wide discussion on main topics of Volcano Geology, combined with fieldtrips on wonderful outcrops of Mt Etna (including Valle del Bove depression and NE Rift) and Vulcano, Lipari and Stromboli volcanoes (Aeolian Islands) comprising the ascent to the Stromboli active craters.



### SCIENTIFIC COMMITTEE

- A. Brum da Silveira (*University of Lisbon, Portugal*)
- L. Capra (*Centro de Juriquilla, UNAM, Mexico*)
- R. Cas (*Monash University, Australia*)
- M. Coltelli (*INGV-OE, Italy*)
- N. Geshi (*Geological Survey of Japan*)
- G. Giordano (*University of Roma-3, Italy*)
- R. Isaia (*INGV-OV, Italy*)
- J. Lindsay (*The University of Auckland, New Zealand*)
- J. L. Macias (*Centro de Michoacan, UNAM, Mexico*)
- J. Martí (*ICTJA, CSIC, Barcelona, Spain*)
- K. Nemeth (*Massey University, New Zealand*)
- C. Principe (*CNR-IGG, Italy*)

### SPONSORS

- International Association of Volcanology and Chemistry of the Earth Interior (IAVCEI)
- International Union of Geodesy and Geophysics (IUGG)
- Istituto Nazionale di Geofisica e Vulcanologia, IT (INGV)
- Dipartimento di Scienze Biologiche, Geologiche e Ambientali - BIGEA, University of Bologna, Italy

### ENDORSEMENTS

- Associazione Italiana di Vulcanologia (AIV)
- Istituto per la Dinamica dei Processi Ambientali, CNR, Italy (CNR-IDPA)
- Dipartimento di Scienze della Terra e Geo-ambientali, University of Bari, Italy



### SCIENTIFIC PROGRAM

This workshop aims to discuss the main issues and developments involved in the geological fieldwork and mapping of volcanic areas as a fundamental tool for the definition of volcano behaviour and associated hazards. We plan a workshop with integrated indoor and field discussion during five days of medium-walk fieldtrips on Mount Etna (Valle del Bove depression and NE Rift), Lipari (boat ride), Vulcano (Gran Cratere di La Fossa) and Stromboli (boat ride and ascent to the summit active craters), alternated with half-day opportunities for discussion and presentation of the fieldtrips. The first day of the workshop will be devoted to a general discussion on the main topics of the Volcano Geology commission, together with a half-day poster session where all the participants will have the possibility to present their studies. A final discussion session will be placed at the end of the workshop in order to summarise and discuss the main conclusions. A possible outcome could be a draft of the guidelines for fieldwork and geological mapping in volcanic areas, rock-unit description, practical volcano-stratigraphy and facies associations.

### MAIN TOPICS

- 1) Modern stratigraphic approach to geological survey and mapping
  - a) Basic and thematic maps
  - b) Remote sensing analysis applied to the volcano geology
  - c) Discussion on a draft of the guidelines to map volcanoes
- 2) Volcano-tectonics: structural setting, interactions between volcanoes and structures, and morphogenetic processes
- 3) Use of geological mapping for hazard assessment and land planning
- 4) Geological data for modelling and volcanological studies



## VENUE

The workshop will be held at Hotel Mareneve Resort, Linguaglossa, Catania ([www.mareneveresort.com](http://www.mareneveresort.com)) from July 3 to 5, and at Hotel Conti, Vulcano, Aeolian Islands ([www.contivulcano.it/](http://www.contivulcano.it/)) from July 6 to 10. Accommodation will be on a full-board basis (packed lunch during fieldtrips). The conference room at Vulcano will be made available by INGV-Centro Servizi Editoria e Cultura Scientifica.

## HOW TO GET THERE

Sicily is a touristic place and has an International Airport at Catania with many direct connections in Europe through low cost and traditional airlines. Also, several flights are daily available between the main Italian cities (Milano, Rome, Naples, Bologna, etc.) and Catania.

Meeting point will be in Catania at 4 PM of July 3 2016 (further information will follow). For the return trip, a regular ferry boat service (not included in the registration fee) is available from Vulcano to Milazzo or Messina in Sicily, joined with a shuttle towards the Catania airport.

## CONTACT PERSON

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## PROVISIONAL REGISTRATION FEES

	Double room occupancy	Single room occupancy
Early bird - March 30 2016	620-650 Euro	820-850 Euro
March 30-June 15 2016	720-750 Euro	920-950 Euro

Registration fee will include all the expenses during the workshop (accommodation from the July 3 to July 10 (7 nights), the ice-breaker party, all meals from the evening of July 3 to the morning of July 10, transfer from Catania to Linguaglossa and from Linguaglossa to Vulcano, 5 days of excursions, registration to the meeting, abstract volume and field-trip guidebook, except personal expenditures made at the hotels. Limited financial support will be available for young researchers and/or researchers coming from developing countries motivating their request in a letter together with the expression of interest for participation.

## NUMBER OF PARTICIPANTS

The maximum number of participants will be 50 due to logistic reasons during the fieldtrips and the will to allow adequate discussion in the field. In case of more than 50 applications, priority will be given to the Volcano Geology commission members. Then, the Scientific Committee will select the participants based on their capabilities and provenance to involve the largest number of countries and to ensure the highest level of scientific discussion about the selected topics.

## REGISTRATION - EXPRESSION OF INTEREST

At the present time we ask only for an expression of interest for participation to the workshop by sending an e-mail to Gianluca Groppelli ([gianluca.groppelli@cnr.it](mailto:gianluca.groppelli@cnr.it)), so that to select participants in case of more than 50 applications. Further information on registration and payment procedure will be given with a second circular, as well as indications for the submission of one or more extended abstracts for the poster session. Together with the expression of interest, please indicate also possible health problems and dietary recommendations. It is recommended to let us know the presence of accompanying persons so that to calculate the accompanying fee, based on their numbers and logistics.

## DEADLINES

- Expression of interest – February 1, 2016
- 2nd Circular and Detailed Program – March 1, 2016
- Early-Bird registration - March 30, 2016
- Abstract submission (poster session) – April 30, 2016