

29 September 2015

15:45-16:00 **P. Tizzani:** On the active ground deformation of resurgent calderas investigated via multi platform remote sensing data: Yellowstone, Long Valley and Campi Flegrei case studies.

16:00-16:15 **T. Lecocq:** Monitoring of Volcanoes using Ambient Seismic Noise: MSNoise!

16:15-16:30 **N. Ackerley:** Prospects for Volcano Monitoring by Ambient Body-Wave Correlation Using Planar Arrays of Geophones.

16:30-16:45 **F. Matano:** Innovative technologies for cliff stability monitoring.

16:45-17:00 **L. D' Auria:** Perspectives for real-time monitoring of stress changes in volcanoes through the inversion of focal mechanisms.

DISCUSSION

17:00-18:00 POSTER SESSION

30 September 2015

9:00-17:00 **FIELD TRIP:** Naples: Vesuvius and Campi Flegrei.

Scientific Committee

Claudia Troise
Renato Somma
Luca D'Auria
Stefano Carlino
Giovanni Scarpato
Giovanna Berrino

Organizing Committee

Giuliana Alessio,
Giuseppe Borriello
Maddalena De Lucia
Valeria De Paola
Margherita Lo Bascio
Anna Maiello
Angela Mormone
Claudio Serio
Vincenzo Torello
Emilia Trimarchi
Sabrina Tulino

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**Osservatorio Vesuviano
Istituto Nazionale di Geofisica
e Vulcanologia**



**Advanced Monitoring
of
Active Volcanoes**

NAPLES, ITALY, September 28th - 30th, 2015



28 September 2015

10:00-11:00 **Registration**

11:00 -11:30 **Welcome** from Authorities.

11:30 -12:00 **Coffee Break**

12:00-12:30 **G. De Natale:** Recent improvement of the monitoring system for volcanoes of the Naples area: the CFDDP, VULCAMED and MONICA Projects.

12:30-13:00 **M. Rosi:** New emergency planning at Vesuvius: state of the art and open challenges.

13:00 -14:00 **Lunch**

14:00-14:30 **P. De Natale:** Frontiers of laser monitoring of gases.

14:30 -15:00 **C. Newhall:** Detecting small, frequent, nearly aseismic resupply (and leakage) of gas and magma from depth.

15:00 -15:30 **W. Thelen:** The Need for and Utility of a Laboratory Volcano.

15:30 -16:00 **P. Malin:** Volcanos, Boreholes and 4-C Seismology in Urban Environments.

16:00 -16:30 **Coffee Break**

16:30 -17:00 **A. Di Muro:** Volcano unrest at Piton de la Fournaise: the problem of linking deep and shallow parts of the plumbing system.

17:00-17:30 **F. Sigmundsson:** Improved understanding of magmatic processes in Iceland: Contribution of volcano geodesy applied to recent Icelandic eruptions and unrest.

17:30-18:30 **POSTER SESSION**

20:00 **SOCIAL DINNER: Original Neapolitan Pizza.**

29 September 2015

09:00-09:30 **D. Patella:** Recent Advances in the interpretation of magnetotelluric data in volcano-geothermal environments.

09:30-10:00 **S. Zlotnicki:** Taal volcano in The Philippines: Understanding and monitoring.

10:00-10:30 **C. Kilburn:** Forecasting Eruptions at Large Calderas: Goals for New Technologies.

10:30-11:00 **T. Walter:** Deep looks into explosive volcano craters by high resolution satellite radar and video monitoring systems.

11:00-11:30 **Coffee Break**

11:30-12:00 **N. Fournier:** Volcano monitoring in New Zealand: state of affairs, challenges and opportunities.

12:00-12:30 **E. Privitera:** Multiparametric monitoring of active volcanoes in Sicily: new challenges and recent results.

12:30-13:00 **A. Rizzo:** Geochemical monitoring of active volcanoes: state of art and perspectives.

13:00-14:00 **Lunch**

14:00-14:15 **R. Scarpa:** Ground deformation signals at Campi Flegrei from borehole dilatometers and long-baseline tiltmeter data.

14:15-14:30 **A. Bonaccorso:** Eruptive activity and source mechanisms inferred through the new borehole dilatometers network installed at Etna volcano.

14:30-14:45 **B. Rusanziga:** Hypocenter determinations of volcanic earthquakes prior to the 2006 and the 2011 eruptions at Nyamulagira, Virunga volcanic area.

14:45-15:00 **R. Moretti:** A re-appraisal of geochemical and geophysical evidences at Campi Flegrei caldera in the last decades.

15:00-15:15 **T. Ricci:** Monitoring heat transfer modality changes in hydrothermal systems.

15:15-15:45 **Coffee Break**

