

Commission on Collapse Calderas
IACVEI

4th International Workshop on Collapse Calderas

September 23-29, 2012, Vulsini Calderas, Italy

Second Circular - <http://www.gvb-csic.es/CCC.htm>

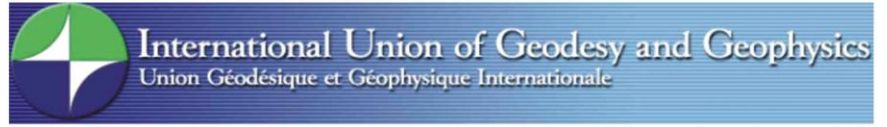
Organizers:

Valerio Acocella; Roma Tre, Roma, Italy; acocella@uniroma3.it
Adelina Geyer; CSIC, Barcelona, Spain; ageyertraver@gmail.com
Danilo M. Palladino; La Sapienza, Roma, Italy; danilo.palladino@uniroma1.it

Scientific Committee:

Valerio Acocella, Univ. Roma Tre, Italy.
Gerardo J. Aguirre-Díaz; UNAM, Queretaro, Mexico.
Jim Cole; Univ. Canterbury, Christchurch, New Zealand.
Adelina Geyer; CSIC, Barcelona, Spain.
Agust Gudmundsson; Univ. Royal Holloway, London, England.
Peter W. Lipman; USGS, Menlo Park, USA.
Joan Martí; CSIC, Barcelona, Spain.
Geshi Nobuo; Geological Survey, Ibaraki, Japan.
Stephen Self; Open University, UK/US-NRC.
Roberto Sulpizio; Univ. Bari, Italy.
Danilo M. Palladino; Univ. La Sapienza Roma, Italy.

Sponsored by:



PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile



IAVCEI: International Association of Volcanology and Chemistry of the Earth's Interior

IUGG: International Union of Geodesy and Geophysics

Università Roma Tre, Roma, Italy

Università La Sapienza, Roma Italy

AIV: Associazione Italiana di Vulcanologia

INGV: Istituto Nazionale Geofisica e Vulcanologia

DPC: Dipartimento Protezione Civile

Comune di Bolsena

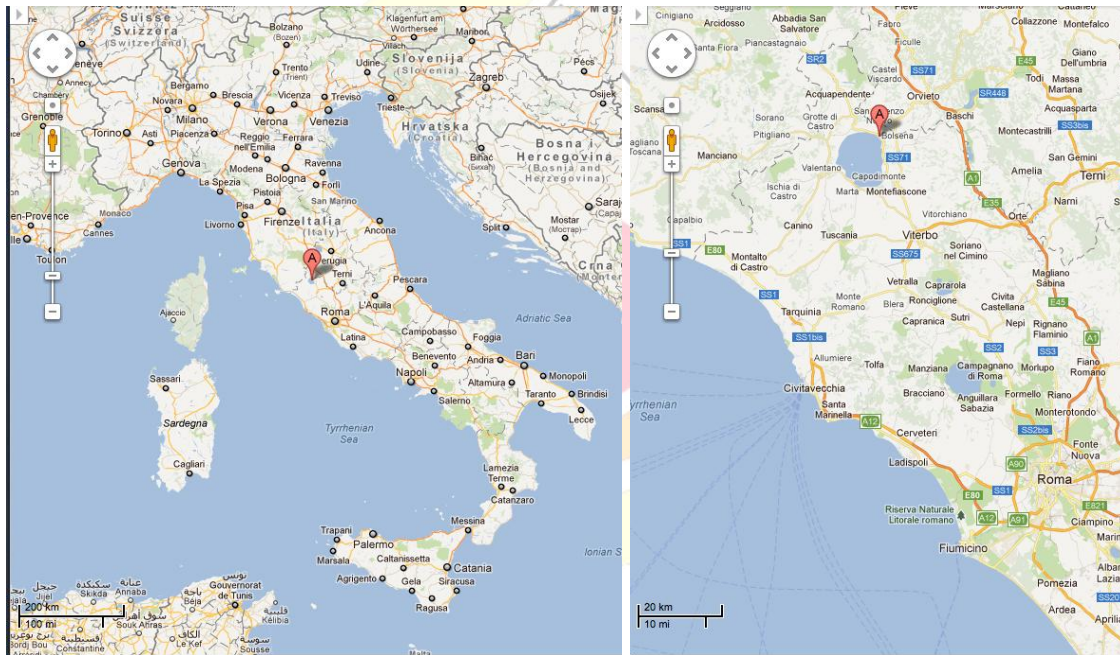
Regione Lazio

What is the Workshop on Collapse Calderas?

The IAVCEI Collapse Calderas Commission (CCC; <http://www.gvb-csic.es/CCC.htm>) was created in 2008 to have a wider and deeper understanding on calderas. It includes caldera geology, geodesy and geophysics, modelling, magma chamber processes, volcanic hazard and risk management, economic benefits and environmental research. CCC promotes interdisciplinary interaction to help solve the many questions regarding the formation, evolution and affect on society of collapse calderas. Previous meetings were held at Tenerife, Canarias, (2005), Mexican Volcanic Belt (2008) and Reunion (2010).

Venue

The 4th Workshop on Collapse Calderas is scheduled for September 23-29, 2012, at Hotel Royal in Bolsena, Central Italy. Bolsena is a medieval village on the edge of Bolsena Caldera, that is the most distinctive feature of the Vulsini Calderas District, 100 km north of Rome. The Vulsini District is a worldwide famous type-locality, where many fundamental concepts on the eruptive dynamics, particularly those related to caldera-forming events, have been proposed.



Workshop outline

The workshop is devoted at understanding the different aspects related to calderas, including the structure and development, erupted products and eruptive history, unrest episodes, magmatic processes, geodetic, geophysical and geochemical signature, mathematical and analogue models, as well as the related economic and environmental research. The workshop includes 2 days of scientific meeting, with oral and poster sessions, and 3 days of field trip at Bolsena, Latera and Vico calderas.

The **scientific meeting** is based on 5 sessions; each session includes, but is not restricted to, several first-order topics, on which the workshop is expected to provide constraints:

1) Caldera context and structure:

- Plate-boundary and intraplate calderas - similarities and contrasts;
- Rift-related calderas in comparison to arc calderas in compressional setting;

- Caldera geology from the surface to the magma chamber;
- Geophysical constraints on caldera structure;
- 2) *Caldera formation and evolution*:
- Monogenetic vs polycyclic caldera centres - why the difference?
- Constant vs incremental collapse;
- Caldera resurgence: evidence, mechanisms, conditions;
- 3) *Caldera deposits*:
- Ignimbrites and their source calderas as records of incremental batholith assembly;
- Triggers for caldera-subsidence events on ocean-island volcanoes: subaerial or submarine eruptions, explosive or effusive?
- 4) *Caldera magmatic processes*:
- Petrologic and geochemical constraints on magma-chamber evolution prior to caldera-forming eruptions;
- Caldera-related intrusions: residua from erupted magma or separate magma batches?
- Duration of caldera cycles; evidence from high-resolution geochronology;
- 5) *Caldera unrest*:
- Monitoring for eruption precursors in restless calderas;
- Magmatic vs. hydrothermal nature of caldera unrest.

Each session is introduced by a keynote lecture, followed by selected oral presentations, shorter posters presentations and a final discussion of the state of the art.

The **field trips** at Bolsena, Latera and Vico calderas are devoted at illustrating their structure, eruptive products and relationships, with the participation of distinguished volcanologists who have been working in the area, including: Bruno Capaccioni (University of Bologna), Ray Cas (Monash University, Australia) Raffaello Cioni (University of Cagliari), Donatella de Rita (University Roma Tre), Mario Gaeta (University La Sapienza Roma), Guido Giordano (University Roma Tre), Patrizia Landi (INGV Pisa), Giovanni Nappi (University of Urbino), Danilo M. Palladino (University La Sapienza Roma), Alberto Renzulli (University of Urbino), Mauro Rosi (University of Pisa), Raffaello Trigila (University La Sapienza Roma) and Luigina Vezzoli (University Insubria, Como).

Thematic informal discussions are planned in the evenings.

Costs

The fee for participants to the workshop is 730 euros. It includes transportation from Rome to Bolsena (on the 23rd) and from Bolsena to Roma (on the 29th), all meals and accommodation in double rooms from the evening of the 23rd to the morning of the 29th (6 nights), the ice-breaker party, 3 days of excursions, the registration to the meeting, the abstract volume and the field-trip guidebook.

Limited financial support is available for young scientists motivating their request in a letter when submitting the abstract (to: acocella@uniroma3.it).

Deadlines

The workshop is limited to 60 participants, with a first-come, first-served basis. We recommend to register as soon as possible, and not to wait for the deadline, to assure your participation to this event.

- Deadline for financial support request for young researchers: **March 20, 2012.**
- Abstract submission deadline: **April 30, 2012.**
- Registration deadline: **April 30, 2012.**
- Registration between May 1 and July 31 will cost 800 euros.
- **Registration after July 31 will not be possible.** No onsite registration is foreseen.

Meeting point for the workshop is scheduled for the early afternoon of September 23 on the west exit of the main train (Termini) station in Rome, where a bus bound to Hotel Royal Bolsena will depart at 14:00.

Abstract Submission

Submit one or more abstracts (<300 words) in Times New Roman, font 12, 1.5 spaced, containing: title (bold), authors, affiliations, email addresses and abstract text.

Please specify the scheduled session(s), as well as any oral/poster preference.

Submit abstracts to: acocella@uniroma3.it

While submitting the abstract, please also provide any notice of registration (see below).

Registration

We strongly encourage to register by means of credit card payment at the following site:
<http://asi.uniroma3.it/moduli/npr/>

If necessary, payment may be also made through bank transfer (IMPORTANT: clearly specifying the reason for the payment: "Bolsena Caldera") at:

Title: UNIVERSITA' DEGLI STUDI ROMA TRE

Bank: UNICREDIT – TESORERIA UNIVERSITARIA

IBAN: IT05T0200805165000400014281

SWIFT: UNCRITM1B58

Whatever the chosen type of registration, please **send prompt notice** of payment to both acocella@uniroma3.it and r.praturlon@uniroma3.it

Failure in sending notice of payment results in unconfirmed registration.

