

Speakers short biographies

Paolo Papale

Paolo Papale graduated in geological science from the University of Pisa in 1990; he then became a contract researcher at the National Council of Research (CNR) and subsequently a researcher at the National Institute of Geophysics (ING).

In 2001 he won a public selection for Full Professor at the University of Calabria and since 2003 he has been Director of Research at the INGV.

He published some 50 scientific papers and has contributed to scientific books on physical-mathematical modelling and numerical simulation of magmatic and volcanic processes and quantification of volcanic hazard.

He is Executive and Founding Editor of the EGU international journal *Solid Earth*.

He has taken part in scientific missions to active volcanoes in Italy, Ecuador, Tanzania, Ethiopia and Congo, and was a member of the United Nations International Commission for the volcanic-tectonic crisis in the Nyiragongo-Lake Kivu region (Democratic Republic of Congo).

From 2005 until 2010 he coordinated at national level the volcanic hazard program commissioned by the Department of Civil Protection.

He currently coordinates the European project "NEMOH" and collaborates in the European project "VUELCO".

He is responsible nationally at the INGV for the specific objective "Physics of Volcanism" and Director of Volcanic Division.

SESSION 1

Mauro Rosi

Mauro Rosi has been Professor of Volcanology at the University of Pisa since 2002, former Director of the Department of Earth Sciences at the same university from 2006 to January 2013, currently serving as Director of the Office of Volcanic and Seismic Risk at the Department of Civil Protection (since February 2013).

Expert volcanologist of the mission of the European Commission responsible for analyzing national systems of civil protection in Venezuela, Colombia, Ecuador, Peru and Bolivia, has done considerable research on various volcanoes of foreign countries (Colombia, Ecuador, Peru, Bolivia, Chile, Mexico, United States, Alaska, Hawaii, Caribbean, Canary Islands, Ethiopia, the islands of Reunion and Mauritius, Saudi Arabia, Greece, the Philippines, New Zealand, Indonesia, Thailand, Papua New Guinea, Iceland, Argentina).

He has participated in numerous volcanic crises in Italy and abroad, including: St Helens (USA) 1982 and 2004; Etna in 1983, 2001 and 2002, Nevado del Ruiz (Colombia) 1985; Guagua Pichincha (Ecuador) 1988 and 1999; Tungurahua (Ecuador) 1999, Stromboli 2002-2003 and 2007; Merapi (Indonesia) 2006; Reunion Island 2009; Eyjafjallajökull Volcano 2010 (Iceland); Cordon Caulle (Chile - Argentina) 2011.

Member of High Risks Committee from 2005 to 2011, where he served as Vice President from 2012 to 2013.

Associated Editor of the international journal *Bulletin of Volcanology* from 1993 to 2001, is the author of about one hundred scientific articles, a large prevalence in international journals.

Co-author of the book *"Volcanoes"*, published in Italy in 1999, translated into French, English and Japanese.



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Richard Bretton

Richard Bretton is a qualified and practising lawyer in an International firm of lawyers with offices in 6 jurisdictions including Italy.

After many years of forensic activity, his strong passion for the environment induced him to study geology. In 2012 he completed a degree in Geology at the University of Bristol and is now studying for a PhD funded by the VUELCO project, focusing on the governance of volcanic unrest.

He is looking at the future role of volcanologists thorough theoretical discourses in earth science, social science and law.

Bretton has the rare quality to have experience in both the environmental and legal aspects. This helps him to study responsibility aspects for scientists working with civil protection agencies.

Tomoyuki Kanno

Tomoyuki Kanno is Senior Analyst for Volcanic Activity at Volcano Division of the Japan Meteorological Agency in Tokyo.

He has broad experience in the volcanic sector. His work activities have been done in several agencies.

In 1994 he joined the Japan Meteorological Agency (JMA) taking care of volcanic activity and earthquake monitoring.

He also worked for the Science and Technology agency - secretariat of Unzen Scientific Drilling Project.

He took care of Unzen volcanic alert levels set up. In 2009 he worked for the Cabinet office for countermeasure of mega earthquakes and the Shinmoedake Eruption.



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SESSION 2

Fabrizio Curcio

Engineer Fabrizio Curcio has been Director of the Emergency Management Office at Department of Civil Protection since 2008 and, in this capacity, oversees the definition, activation and coordination of the operational response of the Department in emergency situations as well as the activities of the Operational Committee.

He is involved therefore with the definition of the organizational models for emergencies and preparation of national plans and guidelines for the national service components of civil protection.

To his office belongs the Italy Situation Room (national operational room in which the representatives of the operational structures sit), the Unified Center for Aeronautic Coordination and the Operational Center for Maritime Emergencies.

He is also involved in the activities for the support of emergency communications and the coordination of logistical activities.

He takes care of relations with administrations charged of healthcare activities and with infrastructures, mobility and essential services managers.

In recent years he covered responsibility roles in the management of several emergencies occurred in Italy, to name some: Costa Concordia shipwreck (2013), Northern Italy earthquake (2012), huge refugees affluence from North Africa (2011), L'Aquila earthquake (2009).

Hiromu Okada

Hiromu Okada joined the Department of Geophysics at Hokkaido University in 1968, where he became associate professor in 1981, professor in 1998 and now he is Professor Emeritus for Volcanology, Geophysics and Geohazards.

In 1977 he was involved in the Mt. Usu eruption management, that convinced him to change interest from seismology to volcanology.

Since 1987 until 2001 he was Director of the Mt. Usu Volcano Observatory.

He collaborated in the successfully managed 2000 eruption of Mt. Usu. For his work during this emergency he was honoured with the Premier Minister's Award for Crisis Management in 2001.

He is also Executive Director of NPO-CEMI "Crisis and Environmental Management Institute" of Toya-Usu Global Geopark, Sobetsu Town, Japan.

Chris Newhall

Christopher G. Newhall is a volcanologist, formerly with the U.S. Geological Survey and since 2008 at the Earth Observatory of Singapore. He is the co-creator of the Volcanic Explosivity Index and specializes in volcanic prediction.

Newhall went to the Philippines in 1970 under the United States Peace Corps program, as a geology instructor. He worked for the USGS Volcano Hazards Program for nearly three decades, collaborating also with University of Philippines and University of Washington as affiliate professor.



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In 2008 he moved to Nanyang Technological University in Singapore to take on the position of volcanology group leader and professor at the newly formed Earth Observatory of Singapore.

Most of his career has been devoted to helping people stay safe from volcanoes, being frequently consulted on interpretation of volcanic unrest. Many lives have been saved and much potential disruption and property loss averted.

In many cases, this has been through direct crisis response, e.g., at Mount St. Helens, Long Valley, Redoubt (USA), Pinatubo, Mayon (Philippines), Nyiragongo (DR Congo), Tungurahua (Ecuador), Popocatepetl (Mexico), Garbuna, Pago (Papua New Guinea) and others.

He has been honoured a number of awards in different countries and took part in many advisory committees worldwide.

Together with a number of other colleagues, he worked to bring the issue to international attention and establish the present worldwide network of Volcano Ash Advisory Centers. He represented WOVO on the ICAO International Task Force on Volcanic Ash.

Renato Solidum

Renato Solidum started his career in 1984, as a Science Research Specialist, at the Philippine Institute of Volcanology and Seismology, the agency tasked to mitigate the effects of volcanic eruptions, earthquakes and tsunamis.

He served as Officer-In-Charge of the Volcano Monitoring and Eruption Prediction Division from 1992 to 1994.

In 1999, he was appointed as Chief Science Research Specialist of the Geology & Geophysics Research and Development Division. He is a recognized expert in Geochemistry, Marine Geology, Volcano and Earthquake Geology, Geological Hazards Assessment and Awareness, and Earth Science Education, he holds a Master's Degree in Geological Science from the University of Illinois and completed his PhD in Earth Science at the Scripps Institute of Oceanography, University of California in San Diego.

In 2010 he received the Presidential Lingkod Bayan for raising the bar of disaster risk reduction and initiating a nationwide mapping program that generated new information on tsunami-prone areas, useful for local governments in risk-sensitive development planning and disaster preparedness.

At present he is the head of the Philippine Institute of Volcanology and Seismology (PHIVOLCS).



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SESSION 3

Edoardo Cosenza

Edoardo Cosenza has a masters degree in Civil Engineering. He taught Construction at the University of Naples and was Head of the Faculty of Engineering from 2005 to 2010. He then became Deputy of Campania Region for Public Structures and Civil Protection aspects. Edoardo cooperated for many years with the Civil Protection Department, in the High Risk Commission, where he was also vice-president of the Seismic Risk Sector. Founder and President of ReLuis University Consortium, network of University Laboratories of Seismic Engineering.

He was also a European Expert into the 'Project Team 2' to prepare the new European seismic rules regarding Eurocode 8 (Structures in Seismic Regions).

He wrote around 400 scientific papers and 10 books, printed in more than 20000 copies.

He took part in the Scientific Technical Commission for post-earthquake operations in L'Aquila, also in the 'CASE project' for innovation in reconstruction.

Ryerson Christie

Ryerson Christie, is a Lecturer at the University of Bristol in the School of Sociology, Politics and International Studies (SPAIS). His work, drawing on the insights of Critical Security Studies, focuses on the conceptualization and implementation of security practices. As a past Canadian Consortium for Human Security (CCHS) doctoral fellow, he has investigated the impact of security measures on marginalized populations. His current research is focusing on the ways in which measures are being implemented to nominally protect communities, with the assistance of the international community, but may serve to erode the rights and quality of life. He has extensive experience in conducting fieldwork in remote indigenous communities, as well as in interviewing security stakeholders in government and Non-Governmental Organizations (NGOs). His work with VUELCO continues this research, exploring local perceptions of insecurity and local views of security actors; mainly related to areas potentially exposed to explosive volcanic eruptions.

Marco Cattaneo

Marco Cattaneo has a masters degree cum laude in Physics from the University of Milan in 1991. He is Editor in Chief at 'Le Scienze' magazine, Italian edition of 'Scientific American'; he also keeps scientific exchanges with other international magazines and newspapers. He is also Editor in Chief at 'National Geographic Italia' magazine. Dr. Cattaneo wrote for many years for several national newspapers and magazines, mainly for scientific matters and travel reportages.

As a photographer, he did many relevant photo features, in different continents, mostly in Africa and Asia. His work has been published in national and international magazines. He wrote many books about different subjects, like environment, ancient art and history.

In 2001 he won the journalistic award "Voltolino" for science communication.



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