



Prof. Roberto W. ROMEO

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Department of Earth Sciences, Life and Environment @ University of Urbino

Personal information

- Born in Rome (Italy), in 1960
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Academic titles

- 1984:** Graduated in Geology at University of Rome “*La Sapienza*”.
- 1989:** Ph.D. in Engineering Geology at University of Rome “*La Sapienza*” with a dissertation on Seismic Slope Stability and Local Seismic Response.
- December 2010:** enabled for the position of Full Professor in Engineering Geology.

Attributes and entrustments

- 1989:** Lecturer of Rock Mechanics at University of Ferrara, Department of Earth Sciences.
- 1989–2000:** Research Geologist at the National Seismic Survey of the Italian Government and co-ordinator of the office of seismic zoning.
- 1992:** Co-ordinator of the International Project of the European Community “Seismic Risk of the Sannio-Matese Region (Southern Italy) and Seismic Microzoning of the town of Beneventum”.
- 1994:** Member of a Working Group of the Italian Ministry of the Environment for the seismic assessment of the GNL power plant of Montalto di Castro (ex-nuclear power plant).
- 1995:** Member of a scientific mission of the Italian Foreign Ministry for the study of the effects of the 1995 Kobe (Japan), Ms 7.2 earthquake.
- 1995–96:** Co-ordinator of a technical-scientific committee of the Italian Government for the formulation of guidelines for the seismic siting of critical facilities.
- 1996:** Member of an expert panel issued by the Italian Civil Protection Department for the assessment of the seismic risk in Italy.
- 1997:** consultant for the evaluation of the project of the long-span bridge on the Messina Strait.

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1997: Co-ordinator of the task-force issued by the Italian Civil Protection Department for the seismic microzoning of the towns struck by the Umbria-Marche seismic sequence of September-October 1997.

1997: Member of a Working Group issued by the Italian Civil Protection Department for the proposal of a new seismic classification of the country.

1998: Decorated with the gold metal by the Ministry of the Interiors for the activities held during the seismic crisis of the Umbria-Marche Regions of 1997-'98.

Academic Years 1998-99, 1999-2000 e 2000-2001: Lecturer of Engineering Geology in Seismic Areas at University of Urbino, Faculty of Sciences.

2000: Co-ordinator of the seismic microzoning studies of the towns of Rosarno and Melicucco (Calabria Region) sponsored by the Structural Funds of the European Community (FESR projects, POR measures).

2000: Member of a Working Group for the Seismic Evaluation of Large Dams, issued by the National Dams Survey of the Italian Government.

2000–2002: Public Manager of the Ministry of Public Works with a specific competence in the field of the safety evaluation of dams, harbours and open channels.

2002 →: Associate Professor of Engineering Geology (Italian Academic Discipline GEO/05) at University of Urbino

2002–2006: Member of the National Committee against Great Risks (Seismic Section) of the Civil Protection Department of the Italian Government.

2003–2004: Member of the Committee issued by the Calabria Regional Government for the proposal of a new regional seismic zoning.

2004 →: permanent consultant of ITER-Consult, a *non-profit* organization for independent technical reviews of nuclear installations.

2005 →: Scientific Director of GISLab (<http://www.uniurb.it/gislab/>), a laboratory for the development of Information Technology tools applied to the Earth Sciences.

2006 →: Member of the Editorial Board of the Italian Journal of Engineering Geology and the Environment (<http://www.ijege.uniroma1.it/>).

2006-2007: Scientific responsible of a sub-task national project regarding the formulation of seismically-induced landslide risk scenarios.

2007: Editor of a Book on the Local Seismic Response for the Engineering Design edited by the International Centre for Mechanical Sciences (Udine, IT).

2008: member of a working group of the International Atomic Energy Agency (IAEA/UN) for the revision of the Safety Guide NS-G-3.3 on *Evaluation of Seismic Hazards for Nuclear Power Plants*, now renamed *SSG-9 Seismic Hazards in Site Evaluation for Nuclear Installations*

2009: collaborative expert of the International Seismic Safety Centre (ISSC) of IAEA/UN

2010: member of a workgroup of the Karisma Benchmark (Task 1) issued by IAEA (UN) for the analysis of the seismic response of the Kashiwazaki-Kariwa Nuclear Power Plant to the Niigata-Chuetsu, M6.8 Earthquake on July

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16, 2007 (Japan).

March 2011 → member of a permanent working group on the Seismic Microzonation issued by the National Civil Protection Department.

November 2011 → member of a Technical Commission on the Seismic Microzonation studies of the Marche Regional Government

2012: Sub-Task Leader of the working group on Site Response Analysis of Working Area 1 (Seismic Hazard) of the International Seismic Safety Centre of IAEA/UN, with the commitment of drawing up a Technical Document on Ground Motion Prediction Equations and Site Response Analysis to be drafted within 2013

2012-2013: Co-ordinator of a Research Group charged to investigate the extensive liquefaction phenomena occurred during the Emilia (Northern Italy) 2012 M6.0 Earthquake

Research fields

- Seismic and Landslide Risk Analyses (Hazard, Vulnerability and Exposure)
- Seismic Microzonation studies and Local Seismic Response Analysis
- Collateral hazards (earthquake-induced landslides and liquefaction)

Publications

Author of about one hundred scientific papers; co-author of a book on the Geology and Geotechnics applied to the Engineering Design; editor of a book on the Local Seismic Response for the Structural Design, edited by the International Centre for Mechanical Sciences (CISM, Udine)

Current

Geoengineering (Rock Mechanics and Rock Engineering, Eurocodes)

teachings

Natural Hazards (Seismic and Landslide Risk)

Languages

English (good), French and Spanish (fair)

SW & HW skills

- Operative Systems DOS, Win, Mac-OS, Linux.
- Office-automation, GIS and DB.
- Fundamentals of programming.

Main works (granted)

- ✓ Seismic Microzonation of the Benevento town in Southern Italy, a research project granted by the European Community
- ✓ Seismic hazard analysis of the Vetto d'Enza Dam (Northern Italy), on application of the Ministry of Public Works
- ✓ Seismic risk analysis of the former Nuclear Power Plant of Montalto di Castro (Central Italy), on application of the Ministry for the Environment

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- ✓ Seismic Microzonation of the main villages struck by the Umbria-Marche 1997, M6.0 Earthquake, on application of the Department of Civil Protection
- ✓ Seismic Microzonation of the historical downtown of Rosarno and Melicucco towns (Southern Italy), on charge of the Calabria Regional Government
- ✓ Landslide hazard and risk analysis of the Montecastrilli (Central Italy) basin land, on charge of the Umbria Regional Government
- ✓ Seismic Risk analysis of an oil-gas deposit in the commercial harbour of Gioia Tauro (Southern Italy), on application of the Council of Public Works and on charge of the company owner
- ✓ Landslide susceptibility analysis of the Marche Region environment, on charge of the local regional government
- ✓ Seismically-induced landslide scenarios, a research project granted by the Ministry for the University and the Research
- ✓ Landslide risk analyses of the Val Marecchia basin (Central Italy), on charge of the local Basin Authority
- ✓ IAEA Specific Safety Guide SSG-9, Seismic Hazards in Site Evaluation for Nuclear Installations
- ✓ Local seismic response analysis of the Kashiwazaki-Kariwa (Japan) Nuclear Power Plant, on application of the International Atomic Energy Agency of the United Nations (IAEA-UN)
- ✓ Scenarios of landslides triggered by earthquakes in the Cesano basin (Central Italy) on behalf of the Department of Civil Protection of Marche Regional Government
- ✓ Analysis of liquefaction hazard as resulting prior and evolved after the phenomena triggered by the Emilia seismic sequence of May 2012, granted by the Italian Civil Protection Department (DPC) and the National Institute of Geophysics and Volcanology (INGV)
- ✓ Realization of a geographic database and WebGIS for the storage, management and querying of an environmental monitoring system of petrochemical plants owned by ENI (National Institute of Hydrocarbons)