

Curriculum Vitae - Marcello Viti

In 1991 Dr. Marcello Viti graduated with honors in Geological Sciences from the University of Siena, discussing a thesis on seismic deformation in the Mediterranean region. In 1996 he obtained the title of PhD in Earth Sciences at the University of Siena, where he dealt with the structure and deformation of the lithosphere in the Mediterranean region. In the period 1997-2007 he collaborated in the research carried out by the Geophysics Group of the Earth Sciences Department of Siena, obtaining 2 scholarships (1997-1999) and two research grants in Geology (2000-2004 and 2005-2007). In the same period he engaged as contract professor in the teaching of Tectonophysics.

Since November 1, 2007 he is a Researcher of Geophysics of the Solid Earth at the University of Siena. He teaches Geophysics and Geology of Energy Resources at the University of Siena. Since 2015 he is Scientific Manager of the Tuscan Geodetic Network, which manages permanent geodetic stations (GPS) on behalf of Settore Sismica of Regione Toscana.

His research concerns the processes related to plate tectonics and their implications on seismic activity. Specific themes are the geodynamics of the Mediterranean region (Cenozoic evolution and plate kinematic); seismicity of the Italian region in relation to post-seismic relaxation processes; numerical modeling of tectonic processes; estimate of seismic deformation and tectonic stress regime; interpretation of space geodesy measurements; rheology of the lithosphere and evaluation of tectonic forces; investigation of subduction and back-arc systems in the world; analysis of geothermal resources and environmental sustainability of geothermal industry.

Selected publications

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- Viti M., Mantovani E., Babbucci D., Tamburelli C., Cenni N., Baglione M., D'Intinosante V. 2015b. Belt-parallel shortening in the Northern Apennines and seismotectonic implications. *Int. J. Geosciences*, 6, 938-961, <http://dx.doi.org/10.4236/ijg.2015.68075>.
- Viti M., Mantovani E., Babbucci D., Tamburelli C., Cenni N., 2016. Seismotectonics of the Padanian region and surrounding belts: which driving mechanism?. *Int. J. Geosciences*, 7, 1412-1451, ISSN: 2156-8367, doi: 10.4236/ijg.2016.71210.
- Viti M., Tavarnelli E., 2018. Geotermia nella Toscana meridionale: una risorsa importante da gestire con cura. *Etrurianatura*, 12, 10-24, ISSN: 2282-2607.
- Viti M., 2019. Strain Diffusion from the 30 October 2016 Norcia (Central Italy) Earthquake. *Tectonics*, 38, 1931-1945, ISSN: 0278-7407, doi: 10.1029/2018TC005464.
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