

**CURRICULUM VITAE**  
of  
Prof. Paolo Boncio, PhD  
(last update August 2022)

**PAOLO BONCIO**  
**PhD in Tectonics and Structural Geology**

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**FIELDS OF INTEREST**

**Earthquake Geology, Seismotectonics, Seismic Hazard, Fault Displacement Hazard**

*Current position:* Associate Professor in Structural Geology (GEO 03)  
Lecturer in “Earthquake Geology”

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Academic Editor of GeoHazards (MDPI, <https://www.mdpi.com/journal/geohazards>)

**BACKGROUND AND QUALIFICATIONS**

1993, Degree in Geological Sciences at the University of Perugia (Italy), with honours.

1998, PhD in Tectonics and Structural Geology, University of Perugia, Italy.

1997-1999, C.N.R. – G.N.D.T. fellowship (National Council of Researches – National Group for the Defence against Earthquakes), Dep. of Earth Sciences, Chieti University (Italy).

2000, Research scientist in seismotectonics and earthquake geology, Earth Science Department, University “G. D’Annunzio” (Chieti, Italy).

2001, Research Professor in Structural Geology (GEO/03), University “G. D’Annunzio” (Chieti, Italy), Faculty of Sciences, Earth Sciences Department.

2003, Qualification for Associate Professor in Structural Geology

2017 Qualification for Full Professor in Structural Geology

**AWARDS**

SGI AWARDS 2020: “CARTOGRAFIA GEOTEMATICA”: A. Testa, P. Boncio, M. Di Donato, G. Mataloni, F. Brozzetti & D. Cirillo - Mapping the geology of the 2016 Central Italy earthquake fault (Mt. Vettore – Mt. Bove fault, Sibillini Mts.).

**TEACHING** (University of Chieti - Pescara)

Since 2015, Professor in “Earthquake Geology”;

1999-2014, Professor in “Gedynamics”;

2010-2014, Professor in “Seismic microzonation”;

2004-2009, Professor in “Seismogenesis, Seismotectonics and seismic Risk”;

Since 1999: Tutor and Co-Tutor of Graduation and PhD Theses in Seismotectonics, Earthquake Geology, Local seismic hazard (PhD theses: XIX cycle, PhD D.P. Tinari; XXI cycle, co-tutor, PhD F. Ferrarini; XXII cycle, PhD D. Di Naccio; XXVII cycle, PhD E. Auciello; XXXIV cycle, PhD F. C. Nurminen; XXXV cycle, PhD A. Testa).

**TEACHING STAFF OF PhD** (University of Chieti - Pescara)

2003-2012, Teaching staff of the PhD in “Geology and Evolution of the Lithosphere”.

2012-2016, Teaching staff of the PhD in “Sciences”.

Since 2017, Teaching staff of the PhD in “Earthquake and Environmental Hazards”.

Since 2022, Teaching staff of the PhD in “Geosciences”.

## RESEARCH

Since 1993: Active tectonics, Earthquake Geology and Seismotectonics of Italy with applications to Seismic Hazard Assessment.

Since 1998: Seismic microzonation and local seismic hazard.

Since 2009: Fault displacement Hazard Analysis (zoning strategies and probabilistic approaches).

Paolo Boncio is/was member of international and Italian research groups:

Fault2SHA: linking faults to seismic hazard assessment in Europe

(<https://sites.google.com/site/linkingfaultpsa/>);

SURFACE: SURface FAulting Catalogue - Earthquakes

(<http://www.earthquakegeology.com/index.php?page=surface&s=4>);

Open EMERGE Working Group (<http://meetingorganizer.copernicus.org/EGU2017/EGU2017-14161-2.pdf>);

Working Group "Benchmarking Current Practices in Probabilistic Fault Displacement Hazard Assessment for Existing Nuclear Installations", International Atomic Energy Agency (IAEA);

Fault Displacement Hazard Initiative - University of California, Los Angeles

(<https://www.risksciences.ucla.edu/nhr3/fdhi/home>);

Italian Working Group "Seismic Microzoning", National Department for Civil Protection;

Italian Working Group "Guidelines for land use in areas with active and capable faults (ACF)", National Department for Civil Protection;

## PROJECTS, AGREEMENTS, CONVENTIONS

1998-1999: participation (collaborator) to Project PE98 - 5.1, National Group for the Defence against Earthquakes (<https://emidius.mi.ingv.it>);

2004-2007: participation (collaborator) to Research Project of National relevance PRIN-MIUR 2004;

2005-2007: participation (collaborator) to Project INGV-DPC 2004-2006, Pr.S2 (pro-gettosv.rm.ingv.it/Documenti/All\_1\_Dcreto\_179.pdf);

2007: Participation (formal international collaborator) to projects of the Natural Environment Research Council (NERC): NERC Standard Grant NE/E01545X/1; NERC Urgency Grant NE/H003266/1; NERC Standard Grant NE/I024127/1; NERC Urgency Grant NE/P018858/1;

2009-2010: Coordinator of the Seismic Microzoning after the April 6, 2009 L'Aquila earthquake (M6.3): Macroarea 3 (National Department for Civil Protection);

Since 2011: Responsible for the agreement between Uni. Chieti and Regione Abruzzo (DGR 333 20/5/11 e 53/DR 18/4712) for promoting research and analyses for seismic risk reduction within the Abruzzo Region;

2012-2013: participation (collaborator) to the Project INGV-DPC 2012-2013, Pr. S1, UR 7, Task C2 (<http://istituto.ingv.it/l-ingv/progetti/>);

2012-2015, 2018-present: Coordinator of the Convention between Uni. Chieti and Regione Abruzzo for "Seismic microzoning of the Avezzano area (AQ)";

2018-2021: Agreement between Uni. Chieti and IRSN (France) for the PhD project: "Probabilistic Fault Displacement Hazard: Improved Methodology and Applications";

2019 - present: Coordinator of the Convention between Uni. Chieti and EAUT for "Fault displacement hazard assessment of the Montedoglio dam on the Tiber River (Arezzo, Tuscany, Italy)";

2020 - present: Coordinator of the Convention between Uni. Chieti and INGV "Redefinition of the Attention Areas of Active and Capable Faults that emerged from seismic microzonation studies carried out in the area of the inhabited centers of Barete and Pizzoli in the province of L'Aquila, affected by the seismic events that occurred starting from 24 August 2016" funded by National Commissioner for post-earthquake reconstruction;

2021 - present: Coordinator of the Convention between Uni. Chieti, "Consorzio di Bonifica integrale dei Bacini Settentrionali del Cosentino" and IN-OGS for "Fault displacement hazard assessment of the Farneto del Principe dam (Roggiano Gravina, CS, Calabria, Italy)".

## INTERNATIONAL PUBLICATIONS:

POUSSE-BELTRAN L., BENEDETTI L., FLEURY J., BONCIO P., GUILLOU V. PACE B., RIZZA M., PULITI I., SOCQUET A. 2022. Save all to author list36Cl exposure dating of glacial features to constrain the slip rate along the Mt. Vettore Fault (Central Apennines, Italy), *Geomorphology*, 2022, 412, 108302, DOI 10.1016/j.geomorph.2022.108302

BAIZE S., AMOROSO S., BELIĆ N., BENEDETTI L., BONCIO P., BUDIĆ M., CINTI F.R., HENRIQUET M., RUPNIK, P. JAMŠEK, KORDIĆ B., MARKUŠIĆ S., MINARELLI L., PANTOSTI D., PUCCI S., ŠPELIĆ M., TESTA A., VALKANIS S., VUKOVSKI M., ATANACKOV J., BARBAČA J., BAVEC M., BRAJKOVIĆ R., BRČIĆ V., CACIAGLI M., CELARC B., CIVICO R., DE MARTINI P.M., ILJAK R., IEZZI F., MOULIN A., KUREČIĆ T., MÉTOIS M., NAPPI R., NOVAK A., NOVAK M., PACE B., PALENIK D., RICCI T., 2022. Environmental effects and seismogenic source characterization of the December 2020

- earthquake sequence near Petrinja, Croatia. *Geophysical Journal International*, 2022, 230(2), pp. 1394–1418, DOI 10.1093/gji/ggac123.
- BONCIO P., AUCIELLO E., AMATO V., AUCELLI P., PETROSINO P., TANGARI A. C., AND JICHA B. R., 2022. Late Quaternary faulting in the southern Matese (Italy): implications for earthquake potential and slip rate variability in the southern Apennines. *Solid Earth*, 13, 1–30, 2022, <https://doi.org/10.5194/se-13-1-2022>.
- TESTA A., VALENTINI A., BONCIO P., PACE B., VISINI F., MIRABELLA F. & PAUSELLI C. 2021. Probabilistic fault displacement hazard analysis of the Anghiari – Città di Castello normal fault (Italy). *Ital. J. Geosci.*, Vol. 140, No. 3 (2021), pp. 327-346, <https://doi.org/10.3301/IJG.2021.07>.
- SARMIENTO A., MADUGO D., BOZORGNIA Y., SHEN A., MAZZONI S., LAVRENTIADIS G., DAWSON T., MADUGO C., KOTKE A., THOMPSON S., BAIZE S., MILLINER C., NURMINEN F., BONCIO P., VISINI F., 2021. Fault Displacement Hazard Initiative Database, Report GIRS-2021-08, DOI: 10.34948/N36P48, University of California, Los Angeles (headquarters), <https://www.risksciences.ucla.edu/girs-reports/2021/08>.
- SCOTTI, OONA; VISINI, FRANCESCO; FAURE WALKER, JOANNA; PERUZZA, LAURA; PACE, BRUNO; BENEDETTI, LUCILLA; BONCIO, PAOLO; ROBERTS, GERALD, 2021. Which Fault Threatens Me Most? Bridging the Gap Between Geologic Data-Providers and Seismic Risk Practitioners, *FRONTIERS IN EARTH SCIENCE*, 8, 10.3389/feart.2020.626401.
- FAURE WALKER, JOANNA; BONCIO, PAOLO; PACE, BRUNO; ROBERTS, GERALD; BENEDETTI, LUCILLA; SCOTTI, OONA; VISINI, FRANCESCO; PERUZZA, LAURA, 2021. Fault2SHA Central Apennines database and structuring active fault data for seismic hazard assessment, *SCIENTIFIC DATA*, 8, 10.1038/s41597-021-00868-0.
- DI NACCIO, DEBORAH; FAMIANI, DANIELA; LIBERI, FRANCESCA; BONCIO, PAOLO; CARA, FABRIZIO; DE SANTIS, ANTONIO; DI GIULIO, GIUSEPPE; GALADINI, FABRIZIO; MILANA, GIULIANO; ROSATELLI, GIANLUIGI; VASSALLO, MAURIZIO, 2020. Site effects and widespread susceptibility to permanent coseismic deformation in the Avezzano town (Fucino basin, Central Italy): Constraints from detailed geological study, *ENGINEERING GEOLOGY*, 270, 10.1016/j.enggeo.2020.105583.
- BONCIO, P.; AMOROSO, S.; GALADINI, F.; GALDERISI, A.; IEZZI, G.; LIBERI, F., 2020. Earthquake-induced liquefaction features in a late Quaternary fine-grained lacustrine succession (Fucino Lake, Italy): Implications for microzonation studies. *ENGINEERING GEOLOGY*, 272, 1-15, 10.1016/J.ENGCEO.2020.105621.
- NURMINEN, FIIA; BONCIO, PAOLO; VISINI, FRANCESCO; PACE, BRUNO; VALENTINI, ALESSANDRO; BAIZE, STÉPHANE; SCOTTI, OONA, 2020. Probability of Occurrence and Displacement Regression of Distributed Surface Rupturing for Reverse Earthquakes, *FRONTIERS IN EARTH SCIENCE*, 8, 1-18, 10.3389/feart.2020.581605.
- TESTA A., BONCIO P., DI DONATO M., MATALONI G., BROZZETTI F. AND CIRILLO D., 2019. Mapping the geology of the 2016 Central Italy earthquake fault (Mt. Vettore – Mt. Bove fault, Sibillini Mts.): geological details on the Cupi – Ussita and Mt. Bove – Mt. Porche segments and overall pattern of coseismic surface faulting. *Geological Field Trips and Maps*, 11(2.1), ISSN: 2038-4947 [ONLINE], <https://doi.org/10.3301/GFT.2019.03>.
- BAIZE S., NURMINEN F., SARMIENTO A., DAWSON T., TAKAO M., SCOTTI O., AZUMA T., BONCIO P., CHAMPENOIS J., CINTI F. R., CIVICO R., COSTA C., GUERRIERI L., MARTI E., MC CALPIN J., OKUMURA K., AND VILLAMOR P., 2019. A Worldwide and Unified Database of Surface Ruptures (SURE) for Fault Displacement Hazard Analyses. *Seismological Research Letters*. doi: 10.1785/0220190144
- VALENTINI A. PACE B., BONCIO P., VISINI F., PAGLIAROLI A., PERGALANI F., 2019. Definition of Seismic Input From Fault-Based PSHA: Remarks After the 2016 Central Italy Earthquake Sequence. *Tectonics*. DOI: 10.1029/2018TC005086
- BROZZETTI, P. BONCIO, D. CIRILLO, F. FERRARINI, R. DE NARDIS, A. TESTA, F. LIBERI AND G. LAVECCHIA, 2019. High resolution field mapping and analysis of the August – October 2016 coseismic surface faulting (Central Italy Earthquakes): slip distribution, parameterization and comparison with global earthquakes. doi: 10.1029/2018TC005305
- VILLANI, F., CIVICO, R., PUCCI, S., PIZZIMENTI, L., NAPPI, R., DE MARTINI, P. M., & OPEN EMERGEIO WORKING GROUP (2018). A database of the coseismic effects following the 30 October 2016 Norcia earthquake in central Italy. *Scientific Data*, 5, 180049. <https://doi.org/10.1038/sdata.2018.49>
- CIVICO R., PUCCI S., VILLANI F., PIZZIMENTI L., DE MARTINI P. M., NAPPI R. AND OPEN EMERGEIO WORKING GROUP (2018). Surface ruptures following the 30 October 2016 Mw 6.5 Norcia earthquake, central Italy. *JOURNAL OF MAPS*, ISSN: 1744-5647, doi: 10.1080/17445647.2018.1441756.
- BONCIO P., LIBERI F., CALDARELLA M., NURMINEN F.-C. (2018). Width of surface rupture zone for thrust earthquakes. Implications for earthquake fault zoning. *NAT. HAZARDS EARTH SYST. SCI.*, 18, 241–256, [HTTPS://DOI.ORG/10.5194/NHESS-18-241-2018](https://doi.org/10.5194/nhess-18-241-2018).
- BONCIO P., AMOROSO S., VESSIA G., FRANCESCONI M., NARDONE M., MONACO P., FAMIANI D., DI NACCIO D., MERCURI A., MANUEL M. R., GALADINI F., MILANA G. (2017). Evaluation of liquefaction potential in an intermountain Quaternary lacustrine basin (Fucino basin, central Italy). *BULLETIN OF EARTHQUAKE ENGINEERING*, ISSN: 1570-761X, doi: 10.1007/s10518-017-0201-z
- FERRARINI F., BONCIO P., DE NARDIS R., PAPPONE G., CESARANO M., AUCELLI P.C., LAVECCHIA G. (2017). Segmentation pattern and structural complexities in seismogenic extensional settings: the north Matese fault system (central Italy). *JOURNAL OF STRUCTURAL GEOLOGY*, vol. 95, p. 93-112, ISSN: 0191-8141, doi: 10.1016/j.jsg.2016.11.006
- LAVECCHIA G., CASTALDO R., DE NARDIS R., DE NOVELLIS V., FERRARINI F., PEPE S., BROZZETTI F., SOLARO G., CIRILLO D., BONANO M., BONCIO P., CASU F., DE LUCA C., LANARI R., MANUNTA M., MANZO M., PEPE A.,

- ZINNO I, TIZZANI P (2016). Ground deformation and source geometry of the 24 August 2016 Amatrice earthquake (Central Italy) investigated through analytical and numerical modeling of DInSAR measurements and structural-geological data. *GEOPHYSICAL RESEARCH LETTERS*, ISSN: 0094-8276, doi: 10.1002/2016GL071723
- DI GIULIO G., DE NARDIS R., BONCIO P., MILANA G., ROSATELLI G., STOPPA F., LAVECCHIA G. (2016) - Seismic response of a deep continental basin including velocity inversion: the Sulmona intramontane basin (Central Apennines, Italy) *GEOPHYSICAL JOURNAL INTERNATIONAL*, 204 (1): 418-439, DOI: 10.1093/GJI/GGV444.
- BONCIO P., DICHIARANTE A.M., AUCIELLO E., SAROLI M., STOPPA F. (2015) - Article: Normal faulting along the western side of the Matese Mountains: Implications for active tectonics in the Central Apennines (Italy), *JOURNAL OF STRUCTURAL GEOLOGY* 11/2015; DOI:10.1016/J.JSG.2015.10.005.
- AMOROSO S., BONCIO P., FAMIANI D., HAILEMIKAEL S., MANUEL M.R., MILANA G., MONACO P., VASSALLO M., VESSIA G. (2015). Preliminary Liquefaction Studies for Seismic Microzonation of Avezzano, Italy. 3RD INTERNATIONAL CONFERENCE ON THE FLAT DILATOMETER, 14-16 June 2015, Rome, Italy, 285-292. ISBN: 979-12-200-0116-8; 01/2015
- EVA E., SOLARINO S., BONCIO P. (2014). HYPODD relocated seismicity in Northern Apennines (Italy) preceding the 2013 seismic unrest: seismotectonic implications for the Lunigiana-Garfagnana area. *BOLLETTINO DI GEOFISICA TEORICA E APPLICATA*. 55/4, 739-754, DOI 10.4430/bgta0131.
- FAMIANI D., P. BONCIO, F. CARA, R. COGLIANO, G. DI GIULIO, A. FODARELLA, G. MILANA, S. PUCILLO, G. RICCIO, M. VASSALLO (2014). 220 - Local Seismic Response in a Large Intra-mountain Basin as Observed from Earthquakes and Microtremor Recordings: The Avezzano Area (Central Italy). In: Lollino et al. (eds.), *Engineering Geology for Society and Territory – Volume 5*, DOI: 10.1007/978-3-319-09048-1\_220, ISBN 978-3-319-09047-4, ISBN (eBook) 978-3-319-09048-1, © SPRINGER INTERNATIONAL PUBLISHING SWITZERLAND.
- PACE B., BOCCHINI G.M., BONCIO P. (2014). Do static stress changes of a moderate-magnitude earthquake significantly modify the regional seismic hazard? Hints from the L'Aquila 2009 normal-faulting earthquake (Mw 6.3, central Italy). *TERRA NOVA* (2014), doi: 10.1111/ter.12117.
- DI NACCIO D., BONCIO P., BROZZETTI F., PAZZAGLIA F.J. AND LAVECCHIA G. (2013). Morphotectonic analysis of the Lunigiana and Garfagnana grabens (northern Apennines, Italy): Implications for active normal faulting. *GEOMORPHOLOGY* (2013), <http://dx.doi.org/10.1016/j.geomorph.2013.07.003>.
- BONCIO PAOLO, GALLI PAOLO, NASO GIUSEPPE, PIZZI ALBERTO (2012). Zoning Surface Rupture Hazard along Normal Faults: Insight from the 2009 Mw 6.3 L'Aquila, Central Italy, Earthquake and Other Global Earthquakes. *BULLETIN OF THE SEISMOLOGICAL SOCIETY OF AMERICA*, vol. 102, p. 918-935, ISSN:0037-1106, doi: 10.1785/0120100301
- QUATTROCCHI F., PIZZI A., GORI S., BONCIO P., VOLTATTORNI N., SCIARRA A. (2012). The contribution of fluid geochemistry to define the structural patterns of the 2009 L'Aquila seismic source. *ITALIAN JOURNAL OF GEOSCIENCES*, vol. 131, p. 448-458, ISSN: 2038-1727, doi: 10.3301/IJG.2012.31
- LAVECCHIA G., DE NARDIS R., CIRILLO D., BROZZETTI F., BONCIO P. (2012). The May-June 2012 Ferrara Arc earthquakes (northern Italy): structural control of the spatial evolution of the seismic sequence and of the surface pattern of coseismic fractures. *ANNALS OF GEOPHYSICS*, vol. 55, p. 533-540, ISSN:1593-5213, doi: 10.4401/ag-6173
- LAVECCHIA G., FERRARINI F., BROZZETTI F., DE NARDIS R., BONCIO P., CHIARALUCE L. (2012). From surface geology to aftershock analysis: Constraints on the geometry of the L'Aquila 2009 seismogenic fault system. *ITALIAN JOURNAL OF GEOSCIENCES*, vol. 131, p. 330-347, ISSN: 2038-1727, doi:10.3301/IJG.2012.24
- MARTELLI L., BONCIO P., BAGLIONE M., CAVUOTO G., MANCINI M., SCARASCIA MUGNOZZA G., TALLINI M. (2012). Main geologic factors controlling site response during the 2009 L'Aquila earthquake. *ITALIAN JOURNAL OF GEOSCIENCES*, vol. 131, p. 423-439, ISSN: 2038-1727, doi: 10.3301/IJG.2012.12.
- BONCIO P., PIZZI A., CAVUOTO G., MANCINI M., PIACENTINI T., MICCADEI E., CAVINATO G.P., PISCITELLI S., GIOCOLI A., FERRETTI G., DE FERRARI R., GALLIPOLI R., MUCCIARELLI M., DI FIORE V., NASO G., WORKING GROUP MACROAREA 3. (2011). Geological and geophysical characterization of the Paganica – San Gregorio area after the April 6, 2009 L'Aquila earthquake (Mw 6.3, central Italy): implications for site response. *Bollettino di Geofisica Teorica e Applicata*, ISSN: 0006-6729, Vol. 52, n.3, 491-512, DOI 10.4430/bgta0014.
- COMPAGNONI M., F. PERGALANI, P. BONCIO (2011) Microzonation study in the Paganica-San Gregorio area affected by the April 6, 2009 L'Aquila earthquake (central Italy) and implications for the reconstruction. *Bull Earthquake Eng* (2011) 9:181–198, DOI 10.1007/s10518-010-9226-2.
- PACE B., ALBARELLO D., BONCIO P., DOLCE M., GALLI P., MESSINA P., PERUZZA L., SABETTA F., SANÒ T., VISINI F. (2011). Predicted Ground Motion after the L'Aquila 2009 earthquake (Italy, Mw6.3): input spectra for Seismic Microzoning. *Bull. Earthquake Eng*, 9, 199-230, DOI 10.1007/s10518-010-9238-y.
- BONCIO P., A. PIZZI, F. BROZZETTI, G. POMPOSO, G. LAVECCHIA, D. DI NACCIO, F. FERRARINI (2010). Coseismic ground deformation of the 6 April 2009 L'Aquila earthquake (central Italy, Mw6.3). *Geoph. Res. Lett.*, vol. 37; p. 1-6, doi: 10.1029/2010GL042807.
- ROBERTS G.P., RAITHATHA B., SILEO G., PIZZI A., PUCCI S., FAURE WALKER J., WILKINSON M., MCCAFFREY K., PHILLIPS R., MICHETTI A.M., GUERRIERI L., BLUMETTI A.M., VITTORI E., COWIE P., SAMMONDS P., GALLI P., BONCIO P., BRISTOW C., WALTERS R. (2010). Shallow subsurface structure of the 2009 April 6 Mw 6.3

- L'Aquila earthquake surface rupture at Paganica, investigated with ground-penetrating radar. *Geoph. J. Int.*, vol. 183(2); p. 774-790.
- VISINI F., PACE B., BONCIO P. (2010). Extensional rate budgeting: constraints from geo-logical and seismological data in central Italy. *Trabajos de Geología*, 30, 309-315 (2010).
- LAVECCHIA G., BONCIO P., BROZZETTI F., DE NARDIS R., DI NACCIO D., FERRARINI F., PIZZI A., POMPOSO G. (2009). Chapter 1: The April 2009 L'Aquila (Central Italy) Seis-mic Sequence (Mw 6.3): A Preliminary Seis-motectonic Picture. In: P. Guarnieri. *Recent Progress on Earthquake Geology*. New York: Nova Science Publishers, ISBN/ISSN: 978-1-60876-147-0
- LAVECCHIA G., BONCIO P., BROZZETTI F., DE NARDIS R., VISINI F. (2009). Chapter 7: The contribution of structural geology and regional tectonics to the definition of large-scale seismotectonic provinces and individual seismogenic sources: Application to the exten-sional belt of central Italy. In: P. Guarnieri. *Recent Progress on Earthquake Geology*. New York: Nova Science Publishers, ISBN/ISSN: 978-1-60876-147-0.
- BONCIO P., TINARI D.P., LAVECCHIA G., VISINI F. & MILANA G. (2009). The instrumental seismicity of the Abruz-zo Region in Central Italy (1981-2003): Seismotectonic Implications. *Ital.J.Geosci. (Boll.Soc.Geol.It.)*, Vol. 128, No. 2 (2009).
- BONCIO P. & BRACONE V. (2009). Active stress from earthquake focal mechanisms along the Padan – Adriatic side of the Northern Apennines (Italy), with considerations on stress magnitudes and pore-fluid pressure. *Tectonophysics*, 476, 180-194, doi:10.1016/j.tecto.2008.09.018.
- BROZZETTI F., BONCIO P., LAVECCHIA G., PACE B. (2009). Present activity and seis-mogenic potential of a low-angle normal fault system (Città di Castello, Italy): constraints from surface geology, seismic reflection data and seismicity. *Tectonophysics*, 463, 31-46.
- BONCIO P. (2008). Deep-crust strike-slip earthquake faulting in southern Italy aided by high fluid pressure: in-sights from rheological analysis. In: WIBBERLEY et al. (Eds.) *The internal structure of fault zones: implica-tions for mechanical and fluid-flow properties*. Special publication of the Geological Society of London, 299, 195-210. DOI: 10.1144/SP299.12
- PACE B, BONCIO P., BROZZETTI F., LAVECCHIA G, VISINI F. (2008). From regional seis-mic hazard to “scenario earthquakes” for seismic microzoning: a new methodological tool for the Celano Project. *Soil Dynamics and Earthquake Engeneering*, 28, 866-874. doi:10.1016/j.soildyn.2007.11.001.
- BONCIO P., MANCINI T., LAVECCHIA G., SELVAGGI G. (2007). Seismotectonics of strike-slip earthquakes within the deep crust of southern Italy: Geometry, kinematics, stress field and crustal rheology of the Potenza 1990–1991 seismic sequences (Mmax 5.7). *Tectonophysics*, 2007, doi:10.1016/j.tecto.2007.08.016.
- PACE B, PERUZZA L, LAVECCHIA G, BONCIO P. (2006). Layered Seismogenic Source Model and Probabilistic Seismic-Hazard Analyses in Central Italy. *Bulletin of the Seismological Society of America*. vol. 96, 107-132, doi:10.1785/0120040231.
- DI NACCIO D., BONCIO P., CIRILLI S., CASAGLIA F., MORETTINI E., LAVECCHIA G. & BROZZETTI F. (2005) – Role of mechanical stratigraphy on fracture development in car-bonate reservoirs: Insights from outcropping shallow water carbonates in the Umbria–Marche Apennines, Italy. *J. Volc. Geoth. Res.*, 148, 98-115.
- BONCIO P., LAVECCHIA G., MILANA G. & ROZZI B., (2004) – Seismogenesis in central Apennines, Italy: an inte-grated analysis of minor earthquake sequences and structural data in the Amatrice-Campotosto area. *Annals of Geophysics*, 47/6, 1723-1742.
- BONCIO P., LAVECCHIA G. & PACE B. (2004) – Defining a model of 3D seismogenic sources for Seismic Hazard Assessment applications: the case of central Apennines (Italy). *Journal of Seismology*, 8/3, 407- 425.
- LAVECCHIA G., BONCIO P. & CREATI N. (2003) – A lithospheric-scale seismogenic thrust in central Italy. *Journal of Geodynamics*, 36/1-2, 79-94.
- PACE B., PERUZZA L., LAVECCHIA G. & BONCIO P. (2002) – Seismogenic sources in Central Italy: from causes to effects. *Mem. Soc. Geol. It.*, 57, 419-429.
- LAVECCHIA G., BONCIO P., BROZZETTI F., STUCCHI M. & LESCHIUTTA I. (2002) – New criteria for seismotectonic zoning of Central Italy: insights from the Umbria-Marche Apenni-nes. *Boll. Soc. Geol. It., Vol. Spec. 1*, 881-890.
- LAVECCHIA G., CREATI N. & BONCIO P. (2002) – The intramontane ultra-alkaline Province (IUP) of Italy: a brief review with considerations on the thickness of the underlying lithosphere. *Boll. Soc. Geol. It., Vol. Spec. 1*, 87-98.
- BROZZETTI F., BONCIO P. & PIALLI G. (2002) – Early-middle Miocene evolution of the Tuscan Nappe - western Umbria foredeep system: insights from stratigraphy and structural analysis. *Boll. Soc. Geol. It., Vol. Spec. 1*, 319-331.
- PACE B., BONCIO P. & LAVECCHIA G. (2002) – The 1984 Abruzzo earthquake (Italy): an example of seismogenic process controlled by interaction between differently-oriented sinkinematic faults. *Tectonophysics*, 350, 237-254.
- BONCIO P., BROZZETTI F. & LAVECCHIA G. (2000) – Architecture and seismotectonics of a regional Low-Angle Normal Fault zone in Central Italy. *Tectonics*, 19 (6), 1038-1055.
- BONCIO P. & LAVECCHIA G. (2000) – A geological model for the Colfiorito earthquakes (September-October 1997, Central Italy). *Journal of Seismology*, 4 (4), 345-356.
- LAVECCHIA G. & BONCIO P. (2000) – Tectonic setting of the carbonatite-melilitite associa-tion of Italy. *Miner-alogical Magazine*, 64 (4), 583-592.

- BONCIO P. & LAVECCHIA G. (2000) – A structural model for active extension in Central Italy. *Journal of Geodynamics*, 29, 233-244.
- BONCIO P., BROZZETTI F., PONZIANI F., BARCHI M., LAVECCHIA G. & PIALLI G. (1998): Seismicity and extensional tectonics in the northern Umbria-marche Apennines. *Mem. Soc. Geol. It.*, 52, 539-555.
- BONCIO P., BROZZETTI F. & LAVECCHIA G. (1996) - State of stress in the northern Umbria-Marche Apennines (central Italy): inferences from microearthquake and fault kinematics analyses. *Annales Tectonicae*, 10/1-2, 80-97.

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