

EMMA SALVIOLI-MARIANI

Degree in Geology in 1981 at the University of Milan.

Since 1983 Assistant Professor in Petrography and Petrology, Department of Earth Sciences, University of Parma.

TEACHING

Lectures for the Degree in Geology, Specialized Degree in Geological Sciences, Degree and Specialized Degree in Sciences and Technologies for the Preservation and Restoration of Cultural Heritage, Degree in Science of Nature and Environment.

Teachings: Optical mineralogy, Petrography, Petrology, Fluids and Petrogenesis, Clays and their applications, Electron Microscopy and Microanalysis Basics, Microthermometry and Vibrational Spectrometry Basics.

Currently Lectures of 'Ore Deposits' and 'Fluids and Petrogenesis' for the Master's Degree in Geological Sciences Applied to Environmental Sustainability.

Organization and participation to educational excursions of Petrography, Applied Petrography, Vulcanology, Geochemistry, Ore Deposits.

Supervisor and tutor of post-doctoral thesis.

RESEARCH

Petrography, petrology and geochemistry of magmatic rocks of several affinities (alkaline, ultrapotassic, calc-alkaline, carbonatitic rocks) and of magmatic and mantle xenoliths to characterize the fluids and the chemical and physical conditions during their genesis and evolution. Writing programs for computing intensive thermodynamic variables, such as pressure, temperature, oxygen, and for the quantification and graphical representation of the mixing processes between magmas.

Study of fluid and melt inclusions in rocks of various geological contexts.

Installation, development and management of a Laboratory for the investigation on fluid and melt inclusions in minerals. Development and management of a Laboratory of scanning electron microscopy equipped with an energy dispersion microanalysis.

Organization of "6° International Congress on the Application of Raman Spectroscopy in Art and Archeology (RAA 2011), Parma, 5-8 settembre 2011.

Organization of "Multinational Congress on Electron Microscopy", Parma, 13-17 settembre 1993.

MAIN RESEARCH THEMES

1. petrologic study of different types of rocks (ultrapotassic, alkaline, calcalkaline, carbonatitic rocks) with particular care to the fluids responsible for their formation and evolution
2. water-rock interactions in low T and low P alteration processes and hydrothermal alteration processes through characterization and origin of fluids
3. study of mineralization and ore deposits in alkaline rocks, ophiolites and rocks from orogenic environment, with particular reference to the composition, origin and role of fluids responsible for the mineralization
4. petrologic study of different types of crustal xenoliths
5. petrographic and mineralogical characterization of gems
6. petrographic and mineralogical characterization of artefacts in steatite stone and of ancient pottery fragments to trace the processing conditions and provenance of the artefacts
7. interactions between hydrothermal fluids and mafic/ultramafic rocks with rodingite formations, with particular attention to the geochemical and physical characteristics of the involved hydrothermal fluids through mass balances, study of fluid inclusions and geochemical modeling

8. study of asbestos and fibrous minerals to discriminate and characterize, with certainty, the different varieties of the asbestiform phases for the establishment of an environmental monitoring system.

PUBLICATIONS

Bezerra F.H., Balsamo F., Corsi G., Legrand J.M., Sousa M.O.L., Nogueira F.C.C., **Salvioli-Mariani E.**, Menezes C.P. (2021) - Hydrothermal silicification in the intraplate Samambaia seismogenic fault, Brazil: Implications for fault loss of cohesion and healing in rifted crust. *Tectonophysics*, 815, 229202

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Odelli E., Raneri S., Cantini F., Mattiello S., **Salvioli-Mariani E.**, Lottici P.P., Bersani D. (2021) - Micro-Raman spectroscopy to investigate production techniques: A focus on fine ware potteries. *Journal of Raman Spectroscopy*, 52, 199-207

Rizzo P., Petrella E., Bucci A., **Salvioli-Mariani E.**, Chelli A., Sanangelantoni A.M., Raimondo M., Quagliarini A., Celico F. (2020) – Studying hydraulic interconnections in low-permeability media by using bacterial communities as natural tracers. *Waters*, 12(6), 1795

Salvioli-Mariani E., Boschetti T., Toscani L., Montanini A., Petriglieri J., Bersani D. (2020) – Multi-stage rodingitization of ophiolitic bodies from Northern Apennines (Italy): Constraints from petrography, geochemistry and thermodynamic modelling. *Geoscience Frontiers*, 11, 2103-2125

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Toscani L., **Salvioli-Mariani E.**, Mattioli M., Tellini C., Boschetti T., Iacumin P., Selmo E. (2020) - The pyroclastic breccia of the Cabezo Negro de Tallante (SE Spain): the first finding of carbonatite volcanism in the Internal Domain of the Betic Cordillera. *Lithos*, 354-355, 105288

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Lucca A., Storti F., Molli G., Mucchez P., Schito A., Artoni A., Balsamo F., Corrado S., **Salvioli-Mariani E.** (2019) - Seismically enhanced hydrothermal plume advection through the process zone of the Compione extensional Fault, Northern Apennines, Italy. *Geological Society of America Bulletin*, GSA Bulletin 131 (3-4): 547-571

- Maciel I.B., Dettori A., Balsamo F., Bezerra F.H.R., Vieira M.M., Nogueira F.C.C., **Salvioli-Mariani E.**, Sousa J.A.B. (2018) - Structural Control on Clay Mineral Authigenesis in Faulted Arkosic Sandstone of the Rio do Peixe Basin, Brazil. *Minerals*, 8 (9), 408-425
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- Boschetti T., Toscani L., **Salvioli Mariani E.** (2015) - Boron isotope geochemistry of Na-bicarbonate, Na-chloride and Ca-chloride waters from the Northern Apennine Foredeep basin: other pieces of the sedimentary basin puzzle. *Geofluids*, 15, 546-562
- Salvioli-Mariani E.**, Toscani L., Boschetti T., Bersani D., Mattioli M. (2015) - Gold mineralisations in the Canan area, Lepaguare District, east-central Honduras: Fluid inclusions and geochemical constraints on gold deposition. *Journal of Geochemical Exploration*, 158, 243-256
- Aliatis I., Lambruschi E., Mantovani L., Bersani D., Andò S., Gatta G.D., Gentile P., **Salvioli-Mariani E.**, Prencipe M., Tribaudino M., Lottici P.P. (2015) - A comparison between *ab initio* calculated and measured Raman spectrum of triclinic albite (NaAlSi₃O₈). *Journal of Raman Spectroscopy*, 46, 501-508
- Petriglieri J.M., **Salvioli-Mariani E.**, Mantovani L., Tribaudino M., Lottici P.P., Laporte-Magoni C., Bersani D. (2015) – Micro-Raman mapping of the polymorphs of serpentine. *Journal of Raman Spectroscopy*, 46, 953-958
- Lambruschi E., Gatta G. D., Adamo I., Bersani D., **Salvioli-Mariani E.**, Lottici P.P. (2014). Raman and structural comparison between the new gemstone pezzottaite Cs(Be₂Li)Al₂Si₆O₁₈ and Cs-beryl. *J. Raman Spectroscopy*, 45, 993-999
- Mattioli M., Menichetti M., Renzulli A., Toscani L., **Salvioli Mariani E.**, Suarez P., Murrioni A. (2014). Genesis of the hydrothermal gold deposits in the Canan area, Lepaguare District, Honduras. *Int. J. Earth Sci. (Geol Rundsch.)*, 103, 901-928.
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