

CURRICULUM VITAE

Stefano Poli

Born: January 7, 1960 in Bergamo (Italy)

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Education:

- 1989: Università degli Studi di Milano, Dipartimento Scienze della Terra, Dottorato di Ricerca (Ph.D.) in Earth Science
1984: Università degli Studi di Milano, graduated in Geology with honours.

Positions

- 2000 - present: Full Professor in Petrology; Università degli Studi di Milano, Italy;
1992-2000: Associate Professor, Università degli Studi di Milano, Italy.
1989-1990: Institut für Mineralogie und Petrographie (IMP), ETH-Zurich (Switzerland), Post-doctoral Fellow
1985-1988: Dipartimento di Scienze della Terra, Università degli Studi di Milano, Italy, Graduate Fellow
1985: Centre Etudes Nucleaires de Saclay (France) and Centre des Faibles Radioactivités, Laboratoire mixte CNRS-CEA, Gif-sur-Yvette (France), Graduate Fellow

Membership and Activity in Professional Societies

- 2010 - Member of the "Accademia Nazionale dei Lincei", the oldest scientific academy, founded in 1603
2005 - Fellow of the Mineralogical Society of America
2010-2011 - President of the Italian Society of Mineralogy and Petrology (<http://www.socminpet.it>).
2008 - Member of the Istituto Lombardo, Accademia di Scienze e Lettere

Fellowships and awards

- 2001: European Mineralogical Union - *Research Excellence Medal*.
1999: visiting professor at the Université Blaise Pascal, Clermont-Ferrand, France
1994: visitor under the "EC Human Capital and Mobility Large Scale Scientific Facility programme" for an experimental stage at Bayerisches Geoinstitut, Universität Bayeruth (Germany)
1989-1990: CNR (Italy) Fellowship and IMP-ETH Forschungproject fellowship.
1988: "Carlo Minguzzi" award, Italian Mineralogical and Petrological Society .
1985-1988: Ministero Pubblica Istruzione (Italy), graduate student Fellowship
1985: "Ing. Gini" Foundation post-Laurea fellowship.

National and International Evaluation Panels

- Member of the Selection Committee for evaluation of MIUR-PRIN 2010-11 granting.
Member of the Committee for Evaluation of Research and Technology Transfer, University of Milan
Member of the Evaluation Panel for "5 per mille" granting, University of Milan
Member of the Evaluation Panel for the Dana Medal, Mineralogical Society of America
Referee for the National Science Foundation - Division of Earth Sciences (USA), Israel Science Foundation (Israel), Agence Nationale de la Recherche (France), Austrian Science Fund (FWF, Austria), Deutsche Forschungsgemeinschaft (DFG, Germany), NERC (UK).

Member of the Evaluation Committee for a Full Professor position in Earth Science at the University of Tromsø, Norway

Member of the Evaluation Committee for professor/scientist positions in Earth Science at the Australian National University (ANU, Australia), at University of Bern, and at the Woods Hole Oceanographic Institution (WHOI), USA.

Member of the Scientific Council at the Centro di Studio Equilibri Sperimentali Minerali & Rocce, CNR, Italy.

Member of Evaluation committee for positions of associate and full professor positions at the Universities of Padova, Milano, Catania, Rome, Turin

Technology transfer

As a result of intense activity promoting transfer of synthesis technologies to the enterprise he founded PETROCERAMICS S.P.A. (<http://www.petroceramics.com>), a spin-off company of the University of Milano, aimed to give industrial value to the know-how developed in basic and applied research performed on complex synthetic and natural inorganic materials. Technological skills acquired in simulating the extreme environmental conditions attained in the Earth and ability in controlling natural complexity offer a unique approach to ideation and development of new materials for large-scale industrial applications

Professional Activities and Research Interests

S. Poli developed the first laboratory of experimental petrology in Italy devoted to the attainment of ultra-high pressure conditions, currently equipped with two multianvil apparatus, two piston cylinders and high temperature gas-mixing furnaces.

Research projects mainly focus on:

- Experimental determination of the stability of hydrous phases and carbonates at high and ultra-high pressure and calculation of phase equilibria in mafic and ultramafic systems at conditions characteristic of subduction zones. Modelling of fluid budget at convergent plate boundaries and subduction zone dynamics.
- Thermodynamic analysis in model systems at high pressure and geothermobarometry.
- Processes of magma differentiation, transport and emplacement in the upper crust, with emphasis on the role of magma mixing in shallow magma chambers.
- Physical and chemical behaviour of chromium-bearing systems: from mineral resources to ceramic processing, recycling and waste disposal.
- Physical and chemical properties of refractory materials. Synthesis techniques in silicon carbide and silicon nitride ceramic materials.
- Geological mapping in the frame of the CARG project (new geologic map of Italy at 1:50.000, <http://www.apat.gov.it>)

Convenor at various international meetings and conferences (EGS, EUG, EMPG, IMA, Goldschmidt Conferences), and Chairman of the “Eighth International Symposium on Experimental Mineralogy, Petrology and Geochemistry” EMPGVIII, 2000. Chairman of the international “Short Course on Microstructures and Physico-Chemical Properties of Earth and Planetary Materials”, 2010. Convenor of the PhD Program in Earth Science 2006-2012, at the University of Milano. Associate Editor of the European Journal of Mineralogy, of the Periodico di Mineralogia, and of Rendiconti Lincei

S. Poli held seminars and invited presentations in a number of Italian and international meetings and workshops (e.g. Modena, Firenze, Siena, Perugia, Trieste, Washington, Zuerich, Clermont-Ferrand, Bochum, Goettingen, Tokyo, Matsuyama, Canberra, Misasa, Kobe, San Francisco, Frankfurt). Distinguished lecturer in 2013, Italian Societies of Mineralogy, Petrology, Geology and Palaeontology.

Published works by Stefano Poli were **cited more than 2600 times** according to Science Citation Database of the Institute for Scientific Information, his H-Index is 20.

Funding institutions in the last five years

Ministero dell'Istruzione dell'Università e della Ricerca – PRIN 2003, 2005, 2007, 2009, 2012
European Commission, the 6th Framework Programme, Marie Curie Research Training Networks
CNR – Consiglio Nazionale delle Ricerche; Provincia di Bolzano; APAT/ISPRA
Regione Lombardia
Provincia di Milano
Università degli Studi di Milano
Deep Carbon Observatory (DCO), USA

Long-term foreign visiting scientists

2002, Kazuaki Okamoto – Tokyo Institute of Technology (Japan)
2003, José Francisco Molina – Universidad Granada (Spain)
2005, Max W. Schmidt – Institut für Mineralogie und Petrologie – ETH Zuerich (Switzerland)
2008, Johannes Fischer – University of Wuerzburg (Germany)
2009, Reia W. Chmielowski – University of Tasmania (Australia)
2010, Pedro Corona-Chavez – University of Morelia (Mexico)
2012, Juan Antonio Moreno Moreno – University of Granada (Spain)
2013, Elham Safarzadeh - Shahid Beheshti University Tehran (Iran)

Bibliography

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- [2] **Poli S.**, Chiesa S., Gillot P-Y., Gregnanin A. & Guichard F. (1987) *Chemistry versus time in the volcanic complex of Ischia (Gulf of Naples, Italy): evidence of successive magmatic cycles*. Contribution to Mineralogy and Petrology 95: 322-335.
- [3] Pasquarè G., **Poli S.**, Vezzoli L. & Zanchi A. (1988) *Continental arc volcanism and tectonic setting in Central Anatolia (Turkey)*. Tectonophysics, 146:217-230.
- [4] Chiesa S., Civetta L., De Lucia M., Orsi G. & **Poli S.** (1987) *Volcanological evolution of the island of Ischia*. In: Di Girolamo P. (ed.). The volcanoclastic rocks of Campania (Southern Italy). Rend. Acc. Sci. Fis. Mat., Napoli, Liguori Editore 69-82.
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- [7] **Poli S.**, Chiesa S., Gillot P-Y., Guichard F. & Vezzoli L. (1989) *Time dimension in the geochemical approach and hazard estimate of a volcanic area: the isle of Ischia case (Italy)*. Journal of Volcanology and Geothermal Researches, 36: 327-335.
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- [9] **Poli S.** (1991) *Reaction spaces and P-T paths: from amphibole eclogite to greenschist facies in the Austroalpine domain (Oetzal complex)*. Contribution to Mineralogy and Petrology 106: 399-416.
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