1. Surname BARBIERI

2. First name: MAURIZIO

3. Nationality: Italian

4. Contacts: tel. +39 0649914593 email: maurizio.barbieri@uniroma1.it

5. Education:

Institution: Sapienza University of Rome, Italy,

Date: 1988 – 1993

Diploma obtained: Laurea (eqv. to MSc Degree) in Geological Sciences with honours (110/110 cum laude).

Institution: Sapienza University of Rome, Italy

Date: 1994 – 1997

Diploma obtained: PhD in Earth Sciences; Specialization in Environmental Geochemistry.

Application of the geochemistry methodologies in the characterization of environmental problems. In particular I studied the distribution of elements and isotopes in the Earth systems with emphasis on the use abundances and isotopic ratios in defining the interaction between different reservoirs (mantle, crust, atmosphere ad hydrosphere). I have also related interests in environmental geochemistry and Health. In particular I study the role of toxic trace elements (e.g. As, B and Hg), deriving from hydrogeochemical anomalies of natural origin, on water quality.

6. Languages skills: Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic).

Language; Reading_Speaking_Writing Italian_1_1_1__ English_1_1_1__

7. Essential qualifications and experience: I have a Bacherlor's Degree and a Master's Degree in Geological Sciences at the Sapienza University of Rome (Italy) with a specialization in Environmental Geochemistry and Natural Resources Management and a PhD in Earth Sciences, at the same University, on the use environmental tracers (natural compounds or isotopes) to identify mechanisms and quantify timescales of environmental processes.

For more than 15 years I have been working as a researcher and from 2005 as Associate Professor and scientific coordinator on projects, dealing with environmental geochemistry. More specifically, I worked on the following research:

Scientific coordinator (2000) of the research between the CNR (National Research Council) and National Institute of Geophysics and Volcanology Section of Rome, for the measurement and interpretation of isotope ratios in water samples from the fields of Weyburn oil wells (Southern Saskatchewan, Canada), within the project EC WEYBURN.

Scientific coordinator (2003) of the research between the CNR (National Research Council) and National Institute of Geophysics and Volcanology Section of Rome, for the measurement and interpretation of isotope ratios in water samples from the seismic Aigion (Greece, Strait of Corinth), under the Agreement EC 3F-Corinth No ENK6-CT-2000-00056 in which the INGV-Rome (Dr. F. Quattrocchi) scientific partner repsonsabile for the task WP7 - Geochemical transients, fluid geochemistry.

Since July 2009 I am part, as an expert, of the working group established within the III Section of the National Health Council for the examination of hydrogeochemistry and hydrogeological aspects related to the recognition of natural mineral waters. Since September 2009, I have been

part of the Academic Board of the PhD in Earth Sciences of Sapienza University of Rome;

2009-2016 Board of Directors member at Sapienza University of Rome;

Scientific Coordinator for the Geochemical model of the Vico Lake, with particular regard to environmental arsenic. Client: Regional Agency for Environmental Protection of Lazio. October 2014 – October 2016.

Scientific coordinator for the Water Unit of the National Project (2010-2011): Ecological restoration plan for Palo Laziale Wood, Italy. funded by the Nando Peretti Foundation;

Scientific coordinator for the Water Unit of the International Project (2012-2014): Institutional Support to the management of Protected Areas in Albania funding from the International Union for Conservation of Nature (IUCN);

Scientific coordinator of the Water Unit for the International Project (2008 - 2010): Sustainable Development and Biodiversity Conservation for the People of Socotra Island (Yemen) eligible for funding by the United Nations Development Programme (UNDP).

Environmental Advisor (Hydrogeochemistry) for the International Project (2016-2019) SECOSUD II - Conservation and equitable use of biological diversity in the SADC region. The project is financed by the Italian Agency for Development Cooperation and implemented through Eduardo Mondlane University, SouthAfrican National Park and Sapienza University of Rome.

Analytical Geochemistry Laboratories Manager from 2001. The Sapienza Analytical Geochemistry Laboratories provide high quality analytical expertise and specialist services for the production and geochemical interpretation of inorganic data for many projects, and for commercial and public sector clients around the world. Project areas benefiting from input by laboratory staff are wide ranging and include: geochemical surveys, water

resources, contaminated land, natural hazards, mineral exploration, waste disposal, environment and health, climate change. Clients and collaborators include major mining companies, government departments, universities, local authorities, public utilities, power generators.

The analytical capability provides extensive datasets on a wide range of geological and environmental samples, including rocks, soils, sediments, vegetation, waters, biological. Full suite analysis of water samples is provided for a range of major and trace cations and anions as well as other chemo-physical parameters. The ICP Facility provides high quality major and trace element information on geological, environmental and biological systems, using ICP-MS methodologies.

The ICP Facility has the capability to analyse a wide range of sample types including: surface and groundwaters, landfill leachates, rocks, soils, stream and marine sediments, coal, fly ash, vegetation, cement, shells and corals, filter media, hair, fingernails, and many more challenging sample matrices.

10. Other skills, computer: Word Processing: MS Word, Adobe Acrobat, Open Office Spreadsheets and databases: Excel, Access Statistical Software: SPSS, STATISTICA, Graphic/image software: PowerPoint, PhotoShop

11. Present position: Associate Professor of Environmental Geochemistry and Hydrogeochemistry at the Earth Sciences Department, Sapienza University of Rome, Italy.

12. Key qualifications: Geochemistry, Environment-related research: waste hydrogeochemistry, disposal, health, Natural resources management: Environmental geochemistry for biodiversity conservation and sustainable development.

13. List of scientific publications:

1. Nigro Angela, Barbieri Maurizio, Sappa Giuseppe. (2015).

Hydrogeochemical characterization of municipal solid waste landfill. Rendiconti online della Società Geologica Italiana 04/2015; 35:304-306. Doi: 10.3301/ROL.2015.126
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3. Barbieri Maurizio, Nigro Angela, Sappa Giuseppe. (2014). Arsenic contamination in groundwater system of Viterbo area (Central Italy). Senses and Sciences, 1 (3):101-106 doi: 10.14616/sands-2014-3-101106
4. Barbieri Maurizio, Nigro Angela, Sappa Giuseppe. (2014). Arsenic contamination in groundwater system of Viterbo area (Central Italy). Senses and Sciences, 1 (3):101-106 doi: 10.14616/sands-2014-3-101106
5. Nigro Angela, Barbieri Maurizio, Sappa Giuseppe. (2014). Geochemical characterization of groundwater around Municipal Solid Waste landfill. DOI: 10.3301/ROL.2014.140. Conference: SGI-SIMP. The future of the Italian Geosciences, At Milano, Volume: Rend. Online Soc. Geol. It., Suppl. n. 1 al Vol. 31
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8. Barbieri Maurizio, Nigro Angela, Sappa Giuseppe. (2014). The Human impact on the natural environment: elemental geochemistry of a MSW landfill as a tool to trace changes in ecosystem processes. 14th SGEM GeoConference on Water Resources. Forest, Marine And Ocean Ecosystems, www.sgem.org, SGEM2014 Conference Proceedings, ISBN 978-619- 7105-13-1 / ISSN 1314-2704, June 19-25, 2014, Vol. 1, 753-758 pp. Doi: 10.5593/SGEM2014/B31/S12.096
9. Garone Angelica, Rossi Matteo, Nigro Angela, Barbieri Maurizio. (2014) Water quality assessment of the Buna River Protected Landscape, Northern

Albania. Conference: SGI-SIMP 2014, Volume: Rend. Online Soc. Geol. It. Vol. 31 p. 557. Doi:10.3301/ROL.2014.140
10. Caschetto Mariachiara, Barbieri Maurizio, Galassi Diana M. P., Mastrorillo Lucia, Rusi Sergio, Stoch Fabio, Di Cioccio Alessia, Petitta Marco. (2014). Human alteration of groundwater–surface water interactions (Sagittario River, Central Italy): implication for flow regime, contaminant fate and invertebrate response. Environmental Earth Sciences Volume 71, Issue 4, pp 1791-1807. Doi 10.1007/s12665-013-2584-8
11. Battistel Maria, Barbieri Maurizio. (2013) Numerical modeling and strontium isotopic signal to assess the arsenic distribution in a low-enthalpy hydrothermal system: the case study of Viterbo geothermal area (Italy). American Geophysical Union, Fall Meeting 2013
12. Maurizio Barbieri, Maria Battistel, Tiziano Boschetti (2013). Chemical and isotope monitoring at Lake Albano (Central Italy): water-rock interaction and climate change effects. Procedia Earth and Planetary Science 7, 53-56. Doi:10.1016/j.proeps.2013.03.117
13. F. Vergari, M. Della Seta, M. Del Monte, M. Barbieri (2013). Badlands denudation "hot spots": the role of parent material properties on geomorphic processes in 20-years monitored sites of southern Tuscany (Italy). CATENA, vol. 106, p. 31-41, ISSN: 0341- 8162, doi: 10.1016/j.catena.2012.02.007 .02.007
14. Maurizio Barbieri, Maria Battistel, Angelica Garone (2013). The geochemical evolution and management of a coastal wetland system: A case study of the Palo Laziale protected area. JOURNAL OF GEOCHEMICAL EXPLORATION, vol. 126-127, p. 67-77, ISSN: 0375- 6742, doi: 10.1016/j.gexplo.2012.12.014
15. Medhat Abbas, Maurizio Barbieri, Maria Battistel, Giuditta Brattini, Angelica Garone, Barbara Parisse (2013). Water Quality in the Gaza Strip: The Present Scenario. JOURNAL OF WATER RESOURCE AND PROTECTION, vol. 5, p. 54-63, ISSN: 1945-3094, doi: 10.4236/jwarp.2013.51007
16. Caschetto Mariachiara, Barbieri Maurizio, Galassi Diana, Mastrolillo Lucia, Petitta Marco, Rusi Sergio. The groundwater dependent ecosystem of sagittario river, central italy: relationships between surface/groundwater and nitrogen cycle. FLOWPATH 2012" Percorsi di Idrogeologia I edizione

Bologna, 20-22 Giugno 2012.
17. Sappa Giuseppe, Barbieri Maurizio, Ergul Sibel, Ferranti Flavia (2012). Hydrogeological Conceptual Model of Groundwater from Carbonate Aquifers Using Environmental Isotopes (18O, 2H) and Chemical Tracers: A Case Study in Southern Latium Region, Central Italy.. JOURNAL OF WATER RESOURCE AND PROTECTION, vol. 4, p. 695-716, ISSN: 1945-3094, doi: 10.4236/jwarp.2012.49080 [con allegato e copyright].
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20. Chiocchini Ugo, Castaldi Fabio, Barbieri Maurizio, Eulilli Valeria. (2011). Reply to comment on "A stratigraphic and geophysical approach to studying the deep-circulating groundwater and thermal springs, and their recharge areas, in Cimini Mountains–Viterbo area, central Italy". Hydrogeology Journal, vol. 19 (4), p. 949-952. DOI: 10.1007/s10040- 011-0720-7.
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Evaporites through Space and Time. vol. 285, p. 179-190, LONDON:Geological Society, London, doi: 10.1144/SP285.11
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