

Roberto Compagnoni

Dipartimento di Scienze della Terra
Università degli Studi di Torino
Via Valperga Caluso, 35
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UNIVERSITY STUDIES

Laurea in Scienze Geologiche (M. Sc. equivalent) - University of Turin (Italy), 1964.

Supervisor: dr. Giulio I. ELTER.

Thesis: Geological study of the upper Italian Val Ferret, Val d'Aosta (Italy). March 1964.

PREVIOUS POSITIONS

- 1964 - 1965 Field geologist of the Italian Geological Survey - c/o Institute of Geology - University of Turin
- 1965 - 1967 *Assistente incaricato* (Tutor demonstrator equivalent), Institute of Mineralogy and Petrology - University of Turin
- 1967 - 1977 *Assistente ordinario* (Lecturer equivalent) - Institute of Petrology - University of Turin
- 1977 - 1980 *Professore incaricato* (Assistant Professor equivalent) of Applied Petrology - Institute of Petrology - University of Turin
- 1980 - 1983 *Professore straordinario* (Associate Professor equivalent) of Petrology - Dept. of Earth Sciences - University of Calabria
- 1983 - 1984 Professor of Petrology (Chairman) - Dept. of Earth Sciences, University of Calabria
- 1984 - 1985 Full Professor, Petrology - Dept. of Earth Sciences – University of Calabria
- 1985 - 1991 Full Professor, Petrology - Dept. of Earth Sciences - University of Turin
- 1992 - 1995 Full Professor, Petrology - Dept. of Mineralogical and Petrological Sciences- University of Turin
- 1995 - 2002 Full Professor, Metamorphic Petrology - Dept. of Mineralogical and Petrological Sciences- University of Turin
- 2003 - 2009 Full Professor, Petrology - Dept. of Mineralogical and Petrological Sciences- University of Turin
- 2009 – 2011 Emeritus of Petrology and charged of the courses of Metamorphic Petrology and Rock-forming minerals and microstructures - Dept. of Mineralogical and Petrological Sciences- University of Turin
- 2012 to date Emeritus of Petrology – Dept. of Earth Sciences - University of Turin

TEACHING EXPERIENCE

- 1965 - 1977 Responsible for courses of Rock Forming Minerals at the University of Turin
- 1977 - 1979 Responsible for the courses of Applied Petrology of the University of Turin
- 1979 - 1980 Gave courses in Petrology at the University of Calabria and of Applied Petrology at the University of Turin
- 1981 - 1983 Responsible for courses of Petrology at the University of Calabria
- 1984 - 1995 Responsible for courses of Applied Petrology at the University of Turin
- 1995 - 2009 Responsible for courses of Metamorphic Petrology at the University of Turin

- 1990 - 1998 Member of the teaching staff of the Ph.D. degree in Earth Sciences, union of the Universities of Cagliari, Genoa and Turin
- 1991 - 2006 Gave short courses on HP and UHP metamorphism at national and international PhD schools.
- July 2003 Scientific Director of the Fifth EMU School and Symposium, organized in Budapest (Hungary), July 21-25, sponsored by the European Mineralogical Union, and Editor of Vol. 5 of EMU Notes in Mineralogy.
- 2003 - 2009 Responsible for courses of Igneous Petrology (2nd year), Sedimentary and Metamorphic Petrology (2nd year), Laboratory of Microscopic Petrography (3rd year), Metamorphic petrology (4th year), and Excursions on Crystalline Basement areas (4th year) at the University of Turin
- 2009 – 2011 Charged of the courses of Metamorphic Petrology and of Rock-forming minerals and microstructures - Dept. of Mineralogical and Petrological Sciences- University of Turin

OTHER RESPONSIBILITIES

- 1982-1983 Member of the Calabria University Budget Committee
- 1983-1984 Chairman of the Dept. of Earth Sciences, the University of Calabria, and Chairman of the Corso di Laurea in Scienze Naturali (advisory committee M. Sc. Degree in Natural Sciences courses), University of Calabria
- 1984-1990 Chairman of the Corso di Laurea in Scienze Geologiche (advisory committee M. Sc. Degree in Geological Sciences courses), University of Turin
- 1992 & 2008 Chairman of the Piedmont board of the state examiners, qualifying the graduates in Geology as practitioners
- 1996-1998 Chairman of the Corso di Laurea in Scienze Geologiche (advisory committee M. Sc. Degree in Geological Sciences courses), the University of Turin
- 1997- 2004 Vice-head of Dept. of Mineralogical and Petrological Sciences, the University of Turin
- 1997-2009 Department co-ordinator for the Erasmus student and staff exchange with the Universities of Bucharest and Iasi (Romania), Huelva (Spain), Stockholm (Sweden), and Utrecht (Nederland)
- 2001-2005 Member for the Earth Sciences Area in the International School of Advanced Study of the University of Turin (ISASUT)
- 2000-2005 Head of the PhD in Earth's Sciences, the University of Turin
- 2006-2009 Head of the specialization branch in Earth's Sciences of the Ph.D. School in Science and High Technology, the University of Turin
- 2001-2007 Member of the Editorial Advisory Board of *Island Arc*
- 2001-2008 Vice-head of the "G. Scansetti" Interdepartmental Centre for Studies on Asbestos and other Toxic Particulates, the University of Turin
- 2001-2004 Member of the *Scientific Program Committee* of the IGC 2004 Florence
- 2001-2004 Italian Representative in the *Steering Committee for the preparation of a coordinated European curriculum in Petrology*
- 2001-2003 Vice-president of the *Italian Mineralogical and Petrological Society*
- 2004-2005 President of the *Italian Mineralogical and Petrological Society*
- 2007 Member of the Scientific Committee of the *Journées scientifiques "Serpentines"*, 10-12 October, Grenoble (France)
- 2007-2009 Member of the Editorial Advisory Board of *Elements*
- 2007-2009 Italian Representative in the *International Eclogite Conference Co-ordinating Committee* (I.E.C.C.C.)

- 2009-2015 President of the "*G. Scansetti*" Interdepartmental Centre for Studies on Asbestos and other Toxic Particulates, the University of Turin
- 2015 to date Past-President and Collaborator of the "*G. Scansetti*" Interdepartmental Centre for Studies on Asbestos and other Toxic Particulates, the University of Turin

SCIENTIFIC AWARDS AND HONORIFICS

- 2002 Honorary professor of the "*Alexandru Joan Cuza*" University, Iași (Romania)
- 2004 Awarded the prize «Prof. Luigi Tartufari» for Geology, Paleontology, Mineralogy of *Accademia Nazionale dei Lincei*, Rome
- 2008 Awarded the «Grand Prix Léon Lutaud» of *Académie des Sciences de l'Institut de France* in Paris
- 2010 Socio Corrispondente della *Accademia delle Scienze*, Turin
- 2013 National member of the *Academy delle Scienze*, Turin
- 2014 Secretary of *Accademia delle Scienze*, Turin
- 2015 Awarded the "*Plinius Medal 2015*" of the Italian Society of Mineralogy and Petrology.
- 2016 Awarded the "*International Prize*" of the Geological Society of Japan for contributions in geological research.
- 2017 Socio Corrispondente of *Accademia Nazionale dei Lincei*, Rome
- 2021 Socio Nazionale of *Accademia Nazionale dei Lincei*, Rome

REVIEWER FOR THE FOLLOWING SCIENTIFIC JOURNALS

Bollettino della Società Italiana di Mineralogia e Petrologia
 Bollettino della Società Geologica Italiana
 Canadian Mineralogist
 Contributions to Mineralogy and Petrology
 Earth and Planetary Science Letters
 European Journal of Mineralogy
 Island Arc
 Journal of Metamorphic Geology
 Journal of the Geological Society
 Journal of Petrology
 Journal of Structural Geology
 Lithos
 Lithosphere
 Mineralogical Association of Canada, Short Course Handbook "Geology of Gem Deposits"
 Ofioliti
 Periodico di Mineralogia
 Rendiconti Lincei - Scienze Fisiche e Naturali
 Rocks Mechanics and Rock Engineering
 Schweizerische mineralogische und petrographische Mitteilungen
 Tectonics
 Terra Nova

INTERNATIONAL COLLABORATIONS AND RESEARCH ACTIVITY

- 1973–1975 Member of the American-Italian Working Group on the HP Sesia-Lanzo Zone, Western Alps, including R.G. Coleman (USGS), W. G. Ernst (Stanford University) and G.V. Dal Piaz, G. Gosso and B. Lombardo (Torino).
- 1991–2001 Scientific collaboration with Takao Hirajima (*Kyoto University*) on the study of the UHPM in the southern Dora-Maira Massif, Western Alps.
- 1993–2007 Scientific collaboration with Xu Shutong, *Anhui Institute of Geology*, Anhui Province (China) on the study of UHPM in the Dabie Mountains and in the Su Lu orogen, for the understanding of petrology, *P-T* evolution and fluid–rock interaction during deep subduction of continental crust.
- 1995 Participant in the SARTUCYA campaign from 19.11.1995 to 5.12.1995 (Leaders: G. Mascle and P. Tricart, CNRS/UJF Grenoble), with the French CYANA submersible to observe and sample, on the floor of the Sardinia Channel, at a depth of c. 2500 m below sea level, the rocks of the submerged portion of the Apenninic-Maghrebien branch of the Alpine range.
- 1994-2009 Member and active scientist in the following research groups on the Ultrahigh-Pressure Metamorphism (UHPM) of the International Lithosphere Program (ILP), sponsored by UNESCO:
- 1994-1998 Task Group III-6: "*Ultrahigh-pressure Metamorphism and Geodynamics in Collision-Type Orogenic Belts*" (Chairperson: Cheng Yuqi)
- 1999-2004 Task Group III-8: "*Processes and Geodynamics in the Formation and Exhumation of the Ultrahigh-Pressure Metamorphic Terrains*" (Chairperson: J. G. Liou)
- 2005-2009 Task Force IV - "*Ultra-Deep Continental Crust Subduction*" (UDCCS) (Chairperson: Larissa Dobrzhenetskaya)
- 2013–2015 Scientific collaboration with Tetsumaru ITAYA (*Okayama University of Science*) on geochronological dating of UHPM phengites from the Lago di Cignana Unit, Valtournenche, Aosta Valley.

RESEARCH ACTIVITY mainly in the fields of:

- 1) Stratigraphy, igneous petrology and metamorphic evolution of the meta-ophiolites of the Piemonte Zone of western Alps, with special reference to the high-pressure and ultrahigh-pressure metamorphism;
- 2) Stratigraphy and metamorphic evolution of the crystalline basement of the western Alps, (including tectonic units belonging to the Helvetic, Penninic and Austro-alpine domains) and of the Calabrian-Peloritanian Arc in southern Italy;
- 3) Metamorphic reactions and evolution of the high-pressure and ultra-high-pressure metamorphism in the continental crust units of the western Alps, and Dabie Shan and Su Lu orogens in China;
- 4) Ore petrology of magnetite mineralization occurring in ultramafic rocks;
- 5) Petrology of serpentinized ultramafic rocks with special reference to rodingites and metasomatic reaction rocks;
- 6) Investigations on asbestos and asbestos-like minerals of petrographic and environmental interest in metamorphic ophiolites from the western Alps;
- 7) Fluid-rock interaction during subduction with special attention to the origin of “whiteschists” (continental crust), jadeitites (oceanic lithosphere), and microdiamonds;
- 8) Archaeometry of south European “jades *s.l.*” and studies on rock deterioration and conservation of Italian monuments;
- 9) Investigations on the new rock-forming minerals: balangeroite, carlosturanite, magnesiobeltrandoite, and Fe-rich antigorite;
- 10) Popularization of geology and petrology of the western Alps and Calabrian-Peloritanian Arc, southern Italy.

- 11) Asbestos fiber quantification and new tools for the evaluation of asbestos-related risks during excavation in NOA-rich geological settings.
- 12) Mineralogical study of vein serpentines.

The research activity is documented by over **250 articles** mostly published in International Journals, and **5 geological maps**.