

## PAOLO BEVILACQUA

Born in Italy, Trieste; February 19, 1962;

Resident in Italy, Trieste;

Married;

[paolo.bevilacqua@dia.units.it](mailto:paolo.bevilacqua@dia.units.it);

mobile +39 334 6687952



### STUDIES AND CAREER

Graduated with honours in **Mining Engineering** from the University of Trieste in 1987.

In 1987 he qualified for the engineering profession; chartered at the Engineering Council of the Province of Trieste (n.1682) on January 9, 1990.

In the period 1988 - 1989 he was Research Fellow at the Institute of Mining and Applied Geophysics, University of Trieste.

In the period 1989 - 1990 he practised his profession as a freelancer.

From 02/07/1990 to 31/10/2000 he was a researcher for the scientific sector of Raw Material Engineering at the Faculty of Engineering at the University of Trieste. The position was obtained through nation-wide competition.

Since 01/11/2000 up to now he has been an associate professor in Engineering of Raw Materials for the Faculty of Engineering of the University of Trieste. The position was obtained through nation-wide competition.

### ASSIGNMENTS

Director of the National Consortium of Universities for Earth Resources Engineering -CINIGeo- (a public corporation based in Rome founded by the Universities of Bologna, Cagliari, Roma "La Sapienza" and Trieste), from November 2009 to November 2016.

Member of the National Commission for Integrated Pollution Prevention Control (IPPC) of the Ministry of Environment, from September 2009.

Member of the Commission for Environmental Impact Assessment of the Region Friuli Venezia Giulia from 2005 to 2013.

Representative of the University of Trieste in the Evaluation VAS - PGT team of the Friuli Venezia Giulia Region in 2012-2013.

Delegated Waste Manager by the Rector of the University of Trieste from 2010 to 2018.

Scientific Director of Forgea International (training centre in the fields of geo-mining of the related environmental sectors) from 2009 to 2014.

Consultant for the Italian Ministry of Foreign Affairs in Developing Countries (1991-1995).

Former coordinator of the Centre for Environmental Management and Rehabilitation (CIGRA) of the University of Trieste from 2004 to 2010. CIGRA was constituted by different structures within the different departments of the University of Trieste, research groups and external companies.

Former director of the project ALFORM 2006-2008 which regarded advanced training courses for research and

innovation, funded by the Region of Friuli Venezia Giulia.

Former director of the project Energy Conservation and Comfort Housing (RECA) 2008-2009 training course for research and innovation, organized by the University of Trieste and funded by the Region of Friuli Venezia Giulia.

Former Head of the Socrates project for the Faculty of Engineering, University of Trieste.

Former representative of the University of Trieste in the Board of Directors of the Foundation "Osiride Brovedani."

Member of the commission of an international PhD in "Environmental Science and Engineering" in Cagliari, Italy.

Member of the Scientific Committee of REMTECH (Event on remediation of contaminated sites and the redevelopment of the area).

Member of editorial boards of international journals.

Member of the Scientific Committee of the International Congresses for environmental issues and Mineral Processing.

Coordinator of scientific national and international conferences.

#### **ACADEMIC AND CONSULTING CAREER**

*As part of his academic career he has developed complementary skills related to the following roles:*

Management and coordination of the National Consortium of Universities for Earth Resources Engineering (CINIGeo) from 2009 to 2016.

Coordination for 6 years of applied research activities of the Centre for Environmental Management and Rehabilitation, University of Trieste (CIGRA).

Coordination for twelve years of a research group in the "Environment and Raw Materials" of the former Department of Environmental Chemistry and Raw Materials, University of Trieste; the activities included raw materials, remediation of contaminated land and environment.

Management of public and private funding in the field of applied research.

Activating a systematic process for updating scientific/technical results from the review and evaluation of scientific journals of international mining and environmental issues.

Expertise in the field of action of the Ministry of Foreign Affairs in Developing Countries regarding Mining Engineering.

Participation in the definition of objectives, the planning and the control of work quality standards for research consortia.

Coordination of working groups for the preparation of plans for the characterization of contaminated sites and remediation projects.

*Consultancy-related developed skills:*

Consultant for National Court for environmental issues.

Tester of a waste treatment plant on behalf of the Province of Udine and Province of Trieste (Italy).

Technical Consultant for the Court of Trieste on issues related to land reclamation; Technical Consultant Part in civil and criminal cases regarding environmental issues.

Advisor for engineering and consultancy firms in mining and environmental field.

Designer of a washing plant for contaminated soil and of a mobile plant for soil washing.

Designer of a plant for the treatment of heavy ash produced by incinerators on behalf of an Italian company.

Advisor for Eptisa in the program "Strengthening the review, monitoring and management function of the Ministry of Environment and Spatial Planning (MESp), specifically in the field of energy" of the Ministry of Environment and Spatial Planning of Kosovo.

### **SCIENTIFIC ACTIVITIES**

Author/co-author of about 110 scientific papers published in international journals and on the proceedings of international conferences.

The field of research is summarized in the following areas:

Modelling process engineering unit with particular reference to:

- The process of classification;
- Separation of solid-solid and solid-liquid;
- Technologies for the recovery of secondary raw materials;
- Analysis and economic evaluation of solids treatment plants;
- Treatment of industrial and municipal solid waste;
- Rheology of concentrated suspensions for fluid mixtures of water and coal (CWF);
- Industrial Technologies "clean" low environmental impact;
- Technologies for the remediation of contaminated soils;
- Analysis and processing of environmental data;
- Remote sensing, mapping, and GIS;
- Analysis of major-accident hazards and the risk of toxic industrial plants;
- Environmental impact assessment (EIA), Strategic Environmental Assessment (SEA), Integrated Pollution Prevention Control (IPPC).

Inventor of five international patents (PCT).

### **TEACHING ACTIVITIES**

Tutorials and seminars in Mineral Processing, Secondary Recovery of Raw Materials, Mineralogy, Geostatistics and Applied Chemistry classes during the academic years 1990/91, 1991/92 and 1992/93.

Quarry and Environmental Rehabilitation classes during the academic years 1994/95 and 1995/96.

Tutorials and seminars in Mineralogy and Geostatistics classes during the academic years 1994/95 and 1995/96.

Substitute professor of Applied Geostatistics for the academic years 1996/97, 1997/98 and 1998/99.

Substitute professor of Engineering of Raw Materials for the academic year 1999/2000.

Environmental Legislation and site rehabilitation for the academic year 2015/2016, 2016/2017 and 2017/2018.

Engineering of Raw Materials classes during the academic years from 2000/2011 to 2017/2018.

Substitute professor of Geostatistics and Environmental Measurements from 2002 to 2005.

Professor of Technology for the Reclamation of Land for the academic years from 2004 to 2013.

Taught a seminar regarding Remediation Technologies of Contaminated Sites in 2006 at the Politecnico di Torino.

Taught at the International Master in Cartography and Geographic Information Systems organized by the University of Trieste in the years 2002, 2003 and 2004.

Taught at the Master's Degree "Characterization and Sustainable Use of Land Resources", organized by the University of Trieste in 2009 and 2010.

Professor at the Summer School "Environmental Science and Engineering" University of Cagliari from 2008 to 2012.

Supervisor of degree thesis in Mining engineering and environment, University of Trieste; supervisor of doctoral thesis at the University of Udine.

PhD thesis reviewer for foreign students, tutor of doctoral candidates in Engineering Geology and foreign PhDs.

In charge of the Socrates project between the University of Trieste and the Universities of Delft (Netherlands), Ostrava (Czech Republic), Cartagena (Spain) and Las Palmas (Spain) in the field of Civil and Environmental Engineering.

At the University of Luanda in Angola he held a Mining Engineering class on behalf of the Ministry of Foreign Affairs.

A graduate training course on environmental issues (environmental geostatistics, waste treatment).

A training course regarding technical treatment plants for minerals and coal.

A course organized by ICS-UNIDO for the training of experts from the countries of the Mediterranean basin in the Mining Industry and environment-related topics from 2001 to 2012.

He has held seminars at foreign universities (Delft in Holland, Nottingham in England, Brisbane, Australia) and at private companies.

Trieste, November 10<sup>th</sup>, 2017

Prof. Paolo Bevilacqua