

CURRICULUM VITAE ET STUDIORUM: PROF. PAOLO ZANNINI



Personal data: Born in Modena, June 16th 1952

Present Position: Associate Professor in Analytical Chemistry

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EDUCATION

- **Dec. 1976** Degree in Chemistry at the University of Modena with a thesis entitled 'Reazioni dei Complessi Benzeneseleninato di Cobalto (II) e Nichel (II) con Leganti Azotati', under the supervision of Prof. C. Preti
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PREVIOUS POSITIONS AND FELLOSHIPS

From 1/9/1977 to 30/08/1981: National Research Council- CNR grant at Istituto di Chimica Generale of Modena University

From 01/11/1981 to 19/04/2005. Researcher at the Istituto di Chimica Generale and then at Chemistry Department of Modena University

BRIEF DESCRIPTION OF THE RESEARCH ACTIVITY

His interests cover the study of analytic problems on (A) traditional ceramics (like, e.g., optimization of inorganic pigments production, chemical pigmentation by absorption...), pyrolysis and combustion phenomena, and (B) Cultural Heritage chemical problems studies, through an analytical approach to pigments, ligands, bulk materials, soluble salts etc., For these application he is expert on many advanced analytical techniques, like

- FTIR, MicFTIR spectroscopy
- MicRaman spectroscopy
- UV-Vis spectroscopy
- XRPD , XRF
- Atomic spectroscopy as emission ICP and absorption AAS
- Thermal Analyses DTA, TG e DTG, Dilatometry
- SEM-EDS
- GC-MS
- Hg porosimetry
- Ceramic Technological analyses

MAJOR COLLABORATIONS

For this activity he was and is Consultant of Ceramic Producers and of Ceramic Plant Suppliers, responsible of public grants for a strategic Project on Materials and he is member of the Scientific Board of Ceramic Journals and Magazines.

He is Expert Consultant of ICE-Italian Trade Commission, and Teacher for ICE foreign Courses, Ceramic Materials Technology, in China, India, Vietnam, Iran, Korea, Russia etc.

He has several contacts with qualified partnerships (National Research Council, Ministry of Cultural Heritage etc., Opificio della Pietre Dure in Florence)

FUNDING AND PROJECTS

He was responsible for a Research Unit for CNR Strategic Project MSTA II, for National Research projects (PRIN 03, 05, 07, Regional Funds PRRITT, UNIMORE Industrial Research Funds and Applied Research Funds in the field of Ceramic Materials and Cultural Heritage materials studies. He was promoter and responsible of at least 50 Research Contracts with various Industries.

TEACHING ACTIVITIES

His teaching activity, through the decades, was applied, always at the Modena University, in the field of Inorganic and Analytical Chemistry, to different Faculties/Departments: Science Faculty, Courses at Chemistry, Earth Science, Biotechnology, Pharmacy, Cultural Heritage Science etc.

Actually, he is Teacher of the courses: Surface Analytical Chemistry and Chemist Profession at the master of science in Chemical Science, Analytical Chemistry at the Dept. of Life Sciences, for Pharmacy. He is involved, as co-Coordinator and Teacher, at the UNIMORE-UNIBO Master of Ceramic Technology. He was Teacher of several courses at the UNIBO-Faenza branch, Industrial Ceramics Dept.

SUPERVISION OF PhD STUDENTS

- **1996 - 1998** Supervisor of one Ph.D. Student, Dr. Giulia Vaccari, working on a thesis entitled ‘Industrial pollution: data setting and characterization of pollutants in the ceramic production’.
- **2004 - 2006**. Supervisor of one Ph.D. Student, Dr. Francesca Paccagnella, working on a thesis entitled ‘Development and improvement of complementary microscopic techniques in the analysis of Cultural Heritage’.
- **2010-2014**. Supervisor of one Ph.D. Student, Dr. Silvia Minghelli, working on a thesis entitled ‘New materials and techniques for the strengthening of stoneware and plasters’
- **2014-2016**. Supervisor of one Ph.D. Student, Dr. Giorgia Ferrari, working on a thesis entitled ‘Characterization of digital inks for the inkjet decoration of ceramic tiles: study of the thermal behaviour and VOCs emission during firing’

ACADEMIC DUTIES

- **2007 till now**: President of the Degree Course “Cultural Heritage Science”

MEMBERSHIPS AND APPOINTMENTS

- Member of the Division of Analytical Chemistry of the Italian Chemical Society.
- Member of the Interuniversity Consortium INSTM
- Member of the Doctorate School ‘MM3 - Models and methods for material and environmental sciences’ of the University of Modena e Reggio Emilia (from the academic years **2010/2011** to **now**)
- Member of the Council of Italian Ceramic Society from 1985
- President of Italian Ceramic Society – ICerS from 1999 to 2017
- Member of the Board of Directors or PEC-Permanent Executive Committee of European Ceramic Society from 1983 to 2019

ORGANISATION OF SCIENTIFIC MEETINGS AND SCHOOLS, JOURNALS

- Main/Principal Organizer of the ICC2 congress (2008 – Verona) and of XVI ECerS Conference (2019 – Torino): both world congress with more than 1.000 attendants
- Member of the Scientific committee of the European Ceramic Society Conference
- Member of the editorial board of the Journal of the European Ceramic Society - JECS

- Member of the editorial board of the Journal of Ceramic Sciences and Technology

SELECTED INVITED PRESENTATIONS

In the field of the research on Traditional Ceramic Materials, mostly Ceramic Tiles, he was Invited Speaker in many Congress/Conference in Italy, Spain, Holland, Germany, ...

OTHER INFORMATION

Total number of publications in scientific journals: 62

Total number of book chapters: 3

Total number of other publications: 1

h-index: 15