Dr. Paolo Pozzi

Researcher in 09/IMAT-01 - Materials science and technology

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- Graduated in Chemistry from the University of Modena on 09/20/1985.

-From 1/1/86 to 1/1/90 he benefited from 4 annual scholarships from the company Ceramco S.r.l. at the University of Modena for the "Study and development of inorganic and organic deflocculants for concentrated clay suspensions".

- From 6/16/90 to 1/15/93 he was in service at the Department of Chemistry of the University of Modena as Technical Collaborator VII

- Since 16/1/93 University researchers at the Faculty of Engineering of the University of Modena and Reggio E., discipline group I14A "Applied Chemistry and Materials Science and Technology".

-Currently Researcher in 09/IMAT-01 - MATERIALS SCIENCE AND TECHNOLOGY at the Enzo Ferrari Engineering Department (DIEF) University of Modena and Reggio Emilia.

He has carried out teaching activities at the Faculty of Engineering in Modena, holding courses in instrumental analysis applied to materials, polymeric materials, polymer technology, applied chemical technologies, science and technology of building materials, special materials, thermosetting polymeric materials, Science and technology of ceramic materials, for the degree course in Materials Engineering, Mechanical Engineering, Civil Engineering.

Councilor and founding member of the Italian Society of Rheology, member of the American Society of Rheology, of the Italian Association of Materials Engineering and the Italian Macromolecule Association. From 1998 to 2003 member of the board of directors of Laboratorio di Impresa s.c.r.l. research center for the

plastic injection molding sector in Correggio (RE). From 2006 to 2012, responsible for the sub-project "Recycling of polymeric materials" in the Regional Network Laboratory PRRIITT LITCAR.

He is the author of 90 works published in international and national journals, of a monomorphism on the rheology of ceramic materials.

Since 2020 he has been Scientific Manager of the Technological Laboratory, Chemical Preparations and Thermal Analysis for Polymers of the DIEF.

He has carried out research and consultancy in the materials science sector with particular attention to traditional ceramic materials, polymeric materials and the recycling of secondary raw materials.

-More specifically in the ceramic sector he has worked on the rheological properties of glazes, screen printing pastes, suspensions of clay in water, in particular optimizing the production phases of the various systems, developing additives for industrial use used to improve the behavior of dispersed systems, and dealing with the optimization of the technologies used for the glazing and silk-screen printing of ceramic tiles.

At the same time he dealt with the structural characterization of ceramic materials, in particular evaluating the influence that the introduction of new raw materials had on the mechanical and aesthetic characteristics of the finished products. He therefore dealt with the reformulation of ceramic bodies in order to optimize the production cycles and improve the finished product.

Also in the ceramic sector, he dealt with the optimization at an industrial level of the recycling of ceramic sludge within the production phase, developing the conditions for introducing the sludge into the ceramic mixture and the control techniques used for the optimization of this phase.

-In the polymeric materials sector he has carried out research in the field of thermoplastic materials, in particular in the injection molding sector. Specifically, he dealt with the effects of the morphology and chemical composition of the fillers, on the rheological, mechanical and thermomechanical properties of plastic materials, on the study of the influence of process variables on the final characteristics of the product, and on the surface tribological properties.

He is currently involved in research on thermosets, in particular on polyester and epoxy resins for composite materials, development of hardening systems, and on the functional properties of expanded polyurethane systems.

-In the recycling sector he was involved on the one hand with the recovery of sludge and ceramic waste directly in the production cycle, and at the same time he was interested in the inertisation of industrial waste both in situ and through reuse in appropriate production cycles. Currently in this sector he carries out research on the use of demolition aggregates in the production of concretes, grout and polymer cements.

During his activity he has had research contracts and collaborations with the following companies and institutions:

Apharm

Aqua

Aquafil

Area di Triste

Biodinamic

Bozzetto

Caffaro

Carlo Riccò

CIS-Scuola

Ceramco

Ceramica Alpina

Ceramica Atlas-Concord

Ceramica CMV

Ceramica Coop Imola

Ceramica Floor Gres

Ceramica Gruppo Rondine

Ceramica Itile

Ceramica Marazzi

Ceramica Nordica

Ceramica Panaria

Ceramica Ricchetti

Ceramica Riwal

CGM

Chiesi Farmaceutica

Cismac

CMB

Colorificio Bitossi

Colorificio Cover

Colorificio Degussa

Colorificio Mastro Giorgio

Colorificio Pardo

Consorzio Religh

Consorzio Coreve

Consorzio VIS Carpi

Cookson minerali

Ecozoo

Edis

Enia

Fribre Net

FM

Fondazione Alma Mater

Fornace Fosdondo

Fortec

GresLab

Hera

Industria Mineraria Italiana

Innovacoop

Laviosa

Mineral

Mossi-Ghisolfi

Nial-Nizzoli

Nuova Sguassero

Porcellane Tognana

Provincia Reggio E.

Raichem

Sabar

Sacmi

Simec

Spry Dray

Squassero

Stella-tex

Stena

Superlab

Tecnair Impianti

Tetra Brik

Unieco Ambiente

Urgenia