

Personal Information

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Education and training

Agoust-December 2005	Placement in Wastewater Treatment Plant of Falconara Marittima (AN) - Multiservizi S.p.A.
Academic year 2004/2005	Master degree in Environment Engineering at the Polytechnic University of Marche - Faculty of Engineering - Ancona. Thesis title: "Tertiary treatment a Wastewater membrane. 3. Optimum operating conditions and process parameters. "
Jan-July 2009	Visiting Researcher at Cranfield University, Center for Water Science, Cranfield (UK), Supervisor Prof.Elise Cartmell. MAIN THEMATIC RESEARCH: process / plant study for the biological treatment of nutrient of supernatants by anaerobic processes
September 2009	Course in Trasport Phenomena National PhD School Chemical Engineering-GRICU-Le Kastella (KR)
2006-2009	Ph.D. in Materials, Water and Land Engineering - VIII cycle at Polytechnic University of Marche. "Removal of nitrogen through intermittent aeration process for the advanced treatment of wastewater".
February 2010	Participation in the International Symposium "Progress in treatment manure and digestate" Organized by IBBK, International Biogas and Bioenergy Center of Competence, Heiden (D).
April 2011	Young Water Prize for Best Presentation in IWA Congress Sustainable Solutions for Small Water and Wastewater Treatment Systems, Venice 18-22 April 2011.
2012-2018	Affiliation to Italian Association of Chemical Engineering
October 2013	Participation to School of electronic microscopy – SISM Ancona
2014- to date	Affiliation to International Water Association

Research/Professional Experiences

April-October 2006	Contract Collaboration with Institute of Hydraulics and Infrastructure of the University Polytechnic of Marche – Ancona- for research activities on "Biological processes for the Reduction of sludge production in waste water treatment plants ".
August 2007	Contract with Uniproject s.r.l. Maltignano (AP) for "Flow scheme optimization of liquid wastes platform".

2007-to date	Reviewer for Environmental Management, Elsevier Science Ltd ; Industrial and Engineering Chemistry Research, ACS Publication; Water Science and Technology, IWA publishing; Biochemical Engineering, Elsevier Science Ltd; Bioresource and Technology, Elsevier Science Ltd; Desalination and Water Treatment, Desalination Publication; Journal of Chemical Technology Biotechnology, WileyInterscience; Water Research, IWA publishing.
November 2008	Contract Collaboration with University of Verona for research on "Optimization of water treatment processes industrial waste at the Chemical - Physical - Biological Plant called SG31, with particular attention to the issues related to the application of D.M. 30.07.99 ".
November-December 2009	Contract Collaboration with Hydraulic Department of Polytechnic University of Marche for elaboration data from agri-food site for the optimization of industrial wastewater plant.
2010-2012	Post Doctoral Researcher Department SIMAU Polytechnic University of Marche "The process control in biological reactors, sludge reduction and phosphorus removal in intermittent processes "
February 2012	Contract Collaboration with INCA (VE) for "Evaluation of chemical and physical technologies for nitrogen and phosphorous removal."
November 2012	Contract collaboration with Ingegneria Ambiente Ltd – Falconara Marittima (VE) for Authorization Procedure of Wastewater Treatment Plant (400,000 PE) of Porcari (LU).
June 2014	Contract collaboration with Ingegneria Ambiente Ltd – Falconara Marittima (VE) for Authorization Procedure of Wastewater Treatment Plant (11,700 PE) of Filottrano (AN).
2010-to date	OPERATIVE REFERENT OF PILOT HALL UNIVPM: The experimental Pilot Hall created in 2010 develops on about 200 m2. The area is located in the plant of wastewater treatment of Falconara Marittima (AN). The platform allows carrying out research and development activities in demonstrative and preindustrial scale.
2012-2017	RESEARCHER Environmental Engineering (RTDa) -Not permanent position- Faculty of Engineering Polytechnic University of Marche
2017-to date	Associate Editor of Water and Environment Journal
2017-2023	National Scientific Qualification as Associate Professor in Sanitary Environmental Engineering
2017-to date	Assistant Professor in Sanitary Environmental Engineering (RTDb-ICAR/03) – Not permanent position- Faculty of Engineering Polytechnic University of Marche
2007-to date	Participation as PLATFORM or POSTER Presentation to more than 60 international Congresses
2007- to date	Authors of 37 per-reviewed papers ISI-SCOPUS

Teaching activities

April 2006-to date	Supervisor/Scientific Referent for preparation of thesis (B and MS) in Polytechnic University of Marche – Ancona – Faculty of Engineering.
2013-2014	Scientific Referent Exchange Placement University of Cadiz
2016- to date	Referent Erasmus Cranfield University Agreement, Center for Water Science, Cranfield (UK)
2015-to date	Professor Member of Engineering PhD School of Polytechnic University of Marche
2010-2016	Teaching Professor Optimization Environmental Plant - Polytechnic University of Marche- Engineering Faculty
2012-to date	Teaching Professor Environmental Sanitary Plant - Polytechnic University of Marche- TECHNICAL FOR PREVENTION IN THE ENVIRONMENT and WORKING PLACES
2014-to date	Teaching Professor Chemical Plants - Polytechnic University of Marche- TECHNICAL FOR PREVENTION IN THE ENVIRONMENT and WORKING PLACES
2016-to date	Teaching Professor Environmental Sanitary Engineering- Polytechnic University of Marche- ENGINEERING FACULTY

Project participation

2007-2009 PRIN 2007	Participation in the PRIN2007 project: Pilot study of chemical - physical processes for the Removing and recovering nitrogen from high ammonia concentration from zootechnical streams. FINANCIAL INSTITUTION: Ministry of Education, University and Research (MIUR). ROLE: RESEARCHER PARTICIPANT
2009-2010 Rewise PROJECT	Participation in the Project WISE Project: Promoting a new integrated strategy for the decentralized production of electricity and heat from biogas produced by co-digestion anaerobic sludge and food waste. FINANCIAL INSTITUTION: European Agency ROLE: RESEARCHER PARTICIPANT
2009-2010 RiducaReflui	Participation in the RiducaReflui project: Reducing the pollutant load generated by zootechnical wastewater in the area of the drainage basin of the Veneto Lagoon "Action 5" Analysis of innovative technologies to enhance and/or reduce nutrient influent, with particular reference to nitrogen and evaluation of technical-economic sustainability. FINANCIAL INSTITUTION: Veneto Region and Veneto Agriculture ROLE: RESEARCHER PARTICIPANT
2010-2014 Biomasse di Oggi e di Domani	Participation project "Biomasse di Oggi e di Domani: from zootechnical waste and microalgae contribution to sustainable agriculture and renewable energy ". FINANCIAL INSTITUTION: FOUNDATION CARIVERONA, ROLE: PARTICIPANT RESEARCHER.
2011-2014 ROUTES (FP7)	Participation project FP7 (ENV. 2010) "Innovative system solutions for municipal sludge treatment and management " (ROUTES) (Project reference: 265156). ROLE: PARTICIPANT RESEARCHER.

Jan-July 2015 ENEA	Participation in the project "Feasibility study for the up-scale of the pilot plant for recovery of precious materials from electronic boards developed in ENEA to industrial plant ". FINANCIAL BODY: ENEA.
2013-2016 Cost Action Water 2020	Participation project Conceiving Wastewater Treatment in 2020. Energetic, environmental and economic challenges (Water_2020) FINANCIAL ISTITUTION: COST ACTION ROLES: Working member of WG1 Energetic self-sufficiency and WG2 Resource recovery
2017-To date H2020	Participation project H2020 SMART-Plant "Scale-up of low-carbon footprint material recovery techniques in existing wastewater treatment plants" ROLE: PARTICIPANT RESEARCHER.
	Participation project H2020 "Development and application of Novel, Integrated Tools for monitoring and managing Catchments " (INTCACH) (Reference: 689341). ROLE: PARTICIPANT RESEARCHER.
	Participation project H2020 "ENERWATER Standard method and online tool for assessing and improving the energy efficiency of waste water treatment plants" ROLE: PARTICIPANT RESEARCHER.
	Participation project H2020 "HYDROUSA Demonstration of water loops with innovative regenerative business models for the Mediterranean region" ROLE: PARTICIPANT RESEARCHER.

Responsibility/Operative Referent of studies and scientific research for public or private institutions

01-02-2007 al 31-10-2007	COMPANY Piceno Consind - Ascoli Piceno. "Optimization of plants and sewage of Piceno Consind". OPERATIVE REFERENT
01-03-2007 al 30-11-2007	COMPANY Uniproject S.r.l., Maltignano (AP). "Process optimization and reorganization of the platform in Maltignano of Liquid Waste Treatment Plant managed by the Uniproject Srl". OPERATIVE REFERENT
01-06-2008 al 31-12-2009	COMPANY CIIP S.p.A. – Ascoli Piceno. Experimentation in real plant of techniques for reducing sewage sludge. OPERATIVE REFERENT
01-02-2010 al 30-06-2010	COMPANY Alchemia S.r.l. – Brescia. Design and execution of tests of evaluation of the use of chgi44® in the supply of air in purification plants. OPERATIVE REFERENT
01-03-2010 al 30-06-2010	COMPANY Cosib Consorzio Industriale-Teroli (CB). Study and system optimization of Layout of wastewater treatment of the COSIB. OPERATIVE REFERENT
01-04-2012 al 30-04-2012	COMPANY INDUSTRIE ROLLI ALIMENTARI S.p.A- ROSETO DEGLI ABRUZZI (TE). Environmental problems linked to the realization of plant for biogas production. OPERATIVE REFERENT
01-06-2012 al 30-11-2013	COMPANY B & B service s.a.s.- Voghera (PV) Microfilters MCF 2.22 pilot on tissues at high permeability. OPERATIVE REFERENT

01-03-2013 al 31-05-2013	COMPANY ACQUAMBIENTE Marche S.r.l. "VALIDATION OF THE OPTIMAL FLOW SCHEME PROCESS IN WASTEWATER TREATMENT PLANT OF POTICCIO-CASTELFIDARDO (AN)". SCIENTIFIC REFERENT
01-09-2013 al 31-12-2013	COMPANY Multiservizi S.p.A.-Ancona. Full scale processes for removal of selenium from complex matrix liquid waste from liquid wastewater treatment platform of Falconara Marittima (AN). OPERATIVE REFERENT
01-11-2013 al 20-12-2013	COMPANY Multiservizi S.p.A.-Ancona. Study the causes determined an early decay of ultrafiltration membranes of liquid wastes treatment plant of Vallechiara - Falconara Marittima (AN). OPERATIVE REFERENT
01-04-2014 al 30-05-2014	COMPANY MANIFATTURA ITALIANA TABACCO S.p.A.- CHIARAVALLE (AN). "NETWORKS AND OPTIMIZATION OF WASTEWATER DISCHARGES FOR AUTHORIZATION". OPERATIVE REFERENT
01-05-2014 al 31-05-2014	COMPANY Multiservizi S.p.A.-Ancona. Full scale processes for the removal of surfactants and boron from complex matrix liquid waste. OPERATIVE REFERENT
01-10-2015 al 31-10-2015	COMPANY GELCO S.r.l. Castellalto (TE) Study for the evaluation of the treatability of wastewater from Gelco-Castellalto plant. SCIENTIFIC REFERENT
04-12-2015 al 04-02-2016	COMPANY ATZWANGER SpA Bolzano Wastewater characterization study produced by the OFMSW OF treatment plant of Ginestreto Sogliano (FC) and final discharge estimation. SCIENTIFIC REFERENT
December 2016-May 2017	COMPANY ATS SpA. Evaluation of treatability of sludge for the energetic valorisation in concrete plant production. OPERATIVE REFERENT
January-December 2017	COMPANY Cap HOLDING Masterplan For Circular Economy In Wastewater Plants of CAP HOLDING Ltd. OPERATIVE REFERENT
January-December 2017	COMPANY Cap HOLDING Preliminary evaluation of the energy efficiency of the main CAP group wastewater plants by using the current diagnostic method of ENERWATER. OPERATIVE REFERENT
October-December 2017	COMPANY ATS Support of process engineering for upgrading of the Castelfranco-Salvatronda WWTP (TV), OPERATIVE REFERENT
February 2017-March 2018	COMPANY HERA Technical and economic evaluations on the application of technologies for the production of struvite in urban wastewater treatment plants managed by Hera. OPERATIVE REFERENT
July 2017-to date	COMPANY ATS Carbon Footprint calculation in wastewater service according to ARERA regulation, OPERATIVE REFERENT

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 GDPR 679/16.

Ancona, 17/04/2019

Alessandra Gubbi