

NAME: Marco António Mourão Cartaxo

DATE AND PLACE OF BIRTH: 10 March 1975; Tomar, Portugal

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ACADEMIC AND PROFESSIONAL CAREER

1997: Graduation (4 years degree) in Chemistry, Faculty of Sciences, University of Lisbon (FCUL)

2001: M.Sc. in Applied Electrochemistry, specialization in Electroanalysis, FCUL

2002: Assistant 1st triennium, ESTT, IPT

2005: Assistant 2nd triennium, ESTT, IPT

2012: Ph.D. Chemistry (Physical Chemistry), University of Lisbon

2012-...: Associate Professor, ESTT, IPT

TEACHING AND MANAGEMENT

- Supervision of M.Sc. Thesis, B.Sc. projects, CET and TESP reports; Teaching duties (more than 18 years)/Lectures and Laboratory Practice: General Chemistry (B.Sc. and TESP), Chemistry (B.Sc.), Inorganic Chemistry (B.Sc.), Organic Chemistry I and II (B.Sc. and TESP), Chemistry I and II (B.Sc.), Applied Chemistry I and II (B.Sc.), Instrumental Analytical Methods (B.Sc. and CET), Introduction to Physical Chemistry (B.Sc.), Applied Chemistry (B.Sc.), Physical Chemistry (B.Sc.), Bioenergies (B.Sc.), Renewable Fuels (CET), Biofuel Production (CET), Optimization of Energetic Resources (CET), Wastewater Treatment (CET), Food Chemistry (TESP), Environmental Engineering (M.Sc. and short course), Biodiesel Production in Small Scale (short course), Environmental Impact Assessment (TESP), Raw Materials and Natural Resources (TESP), at the IPT.

- Supervision of training in work context of Professional Courses students of secondary schools, at the IPT.

- Member of the Evaluation and Seriation Panel of Applications to TESP, member of the “Voluntariado.IPT” coordination team, member of the Coordination Committee of the Degree in Chemical Technology, member of the Organizing Committee of the DesQ2019 contest (within the scope of the International Year of the Periodic Table of Chemical Elements - IYPT2019), member of the Organizing Committee for the Carbon Day (within the scope of the International Year of the Periodic Table of Chemical Elements - IYPT2019), member of the Organizing Committee of the Live Periodic Table in Tomar (within the scope of the International Year of the

Chemical Elements Periodic Table - IYPT2019), responsible for the general and scientific formation component of the CET in Energy and Biofuels, member of the Committee preparing a new TESP course in Bioprocess Technology, member of the ESTT Coordination Committee of the Network of Technological and Professional Formation of the Medio Tejo, pivot of the ESTT Network of Technological and Professional Formation of the Medio Tejo, Member of the Development Commission of the Chemical and Environmental Engineering Department (DEQA) internet page, Member of the Divulcation Committee of DEQA, Coordinator of the DEQA participations in the Child and the Environment Week organized by the Municipality of Tomar, Responsible of DEQA under the Science Culture and Technology Festival, at the IPT.

RESEARCH/PROJECTS

- Member of the Smart Cities Research Center (Ci2), where is doing characterization of materials for wastewater treatment and is starting research in fuel cell applications.
- VALORBIO - Wastes valorisation through modular constructed wetlands for wastewater treatment, POCI-01-0145-FEDER-023314, from 17-07-2017 to 16-01-2019, IPT.
- Science in Schools, Inter-municipal Community of the Médio Tejo (CIMT), IPT, since 2017.
- Former research collaborator of the Center of Chemistry and Biochemistry, FCUL, doing research in developing new materials usable in the electrochemical degradation of pollutants, collaborating also with the Beira Interior University.
- Electrochemical characterization of steel electrodes coated with cobalt and iron oxides (Co_{1.7}Fe_{1.3}O₄) in collaboration with the group of Prof. P. Tailhades, Université Paul Sabatier, Toulouse, France, 2008.
- Project "Optimization of conditions for phenol degradation using metal oxides as anodes containing cobalt and iron (Co_{3-x}Fe_xO₄, 0 ≤ x ≤ 3)," Portugal-Morocco Bilateral Cooperation Program, GRICES/CNRST, from 01-01-2006 to 31-12-2007, University of Lisbon/University of Agadir.