PROF. PhD.Teresa J.LEO MENA

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Scientific title: Full Professor at School of Naval Engineering (ETSI Navales) of the Technical University of Madrid (Universidad Politécnica de Madrid, UPM).

Studies: Universidad Politecnica de Madrid , SPAIN.

Professional experience: Full professor and teaches Thermodynamics and Thermal Engineering at the School of Naval Engineering (ETSI Navales) of the Technical University of Madrid (Universidad Politécnica de Madrid, UPM). She leads the thematic community 'Hydrogen and Fuel Cells (CH2PC)' at UPM and is the founder and coordinator of the UPM Research Group 'Fuel Cells, Hydrogen Technologies, and Alternative Engines (PiCoHiMA)'. She represents UPM at the UNESCO Chair 'Innovative, Sustainable and Clean Energy' at the University of Genoa (Italy). She is a member and UPM co-representative of Hydrogen Europe Research (HER), the Spanish Hydrogen Association (AeH2), and the Spanish Hydrogen Platform (PTeH2). She served for six years as Deputy Director of Doctoral Studies at the School of Naval Engineering (ESTI Navales-UPM) and as Coordinator of the Doctoral Program in Naval and Ocean Engineering at UPM. Since 2008, she has conducted research in the field of direct methanol fuel cells (DMFC), polymer electrolyte membrane fuel cells (PEMFC), and alternative fuels such as hydrogen, methanol, and ammonia, as well as CO2 carbon capture. She has led and continues to lead research projects within the framework of national, regional, and European programs, and regularly collaborates with Spanish universities and research institutions, as well as with international universities (NTNU, UQTR, UNIGE, the Universities of Bremen, Southampton, Oklahoma and Palermo). She is currently coordinating one of the main lines of the GreenH2CM project on Energy and Green Hydrogen, funded by Next Generation Funds, specifically focusing on the uses of hydrogen. Author of more than 100 scientific publications, 78 of which are indexed (47 in JCR), she has participated in more than 30 R&D projects and has contributed over 100 presentations at national and international conferences. She has supervised 6 doctoral PhD theses and is currently supervising another one. Her teaching activity is directly related to her research, focusing on Thermodynamics, Thermal Engineering, and Hydrogen and Fuel Cells. She has participated in 27 competitive Educational Innovation projects, leading 8 of them, and has published more than 48 works in this field. She conducts scientific outreach activities and workshops through conferences, the Madri+d Science Week (2014-2024), YouTube videos, and websites.

Key points of interest in research: Fuel cells (DMFC and PEMFC) for maritime applications; Alternative Maritime Fuels; CO_2 capture onboard. In the short-bio are described in ore detail. ResearcherID: K-6840-2014, SCOPUS ID 24387739500