

Education and training

Dates	1999
Title of qualification awarded	PhD in Chemical Engineering
Principal subjects/occupational skills covered	Thesis Title: "Use of Thermoanalytical Techniques in Catalyst Characterization" (in Portuguese) for carbon- supported metal catalysts.
Name and type of organisation providing education and training	FEUP (Faculdade de Engenharia da Universidade do Porto)
Level in national or international classification	Approved by unanimity
Dates	1990
Title of qualification awarded	Five-year Degree in Chemical Engineering
Principal subjects/occupational skills covered	Analysis, synthesis, design and control of chemical engineering processes with elective courses of pollution.
Name and type of organisation providing education and training	FEUP (Faculdade de Engenharia da Universidade do Porto)
Level in national or international classification	14/20
Mother tongue	Portuguese

Other language(s)

Self-assessment European level (*)	Understanding		Speaking				Writing	
	Listening	Reading	Spoken interaction		Spoken production		Writing	
English	Independent user	C1 Proficient user	B2	Independent user	B2	Independent user	C1	Proficient user
French	Independent user	B2 Independent user	B1	Independent user	B1	Independent user	B2	Independent user
Spanish	A2	B1 Independent user	B1	Independent user	A2	Basic user	A2	Basic user

(*) [Common European Framework of Reference for Languages](#)

Social skills and competences	Team work. Accustomed to partnerships with industries like Galp energia (refinery company), Dow Portugal (polymeric MDI producer) and UNICER (brewery company).
Organisational skills and competences	Member of support board to the organisation committee of "XVII Simpósio Ibero-Americano de Catálise" 2000 Porto, Portugal. Co-responsible on propaganda activities of the Chemical Engineering Department in order to get more candidates to enrol the first cycle studies.
Technical skills and competences	Problem solving expert.
Computer skills and competences	Competent with Microsoft Excel, Word and PowerPoint. Familiar with VBA programming. Proficient with MatLab technical computing software. Proficient with Aspen Plus process modeling software namely: rate-based distillation; electrolyte models; user model Fortran subroutines, process modeling with solids.
Driving licence	Holder of an European drivers licence. Category B vehicle.

Additional information

PUBLICATIONS

- "Formation of two metal phases in the preparation of activated carbon-supported nickel catalysts", L. M. S. Silva, J. J. M. Órfão, J. L. Figueiredo, *Applied Catalysis A: General* **209**, 145-154, 2001. (DOI: 10.1016/s0926-860X(00)00762-6)
- "River hydrogeometry and dye tracer impulse behavior to predict pollutant concentration", Ana S. A. Lima, Christopher S. A. Sá, Luís M. S. Silva, 4th International Congress on Energy and Environment Engineering and Management, Mérida, Spain, 2011.
- "Pressure increase in a full scale membrane bioreactor for treatment of wine wastewater", Alves de Sá, C. S.; Sousa Silva, L. M.; Crispim Ribeiro, A. A.; Morais, L. C.; Oliveira, R.; Meireles, A.; Pinheiro Sampaio, A. M., Chempor 2011, Lisboa, Portugal.
- "Comparación de modelos de dispersion de ¹³⁷Cs en suelos", Taylor M., Montes M., Runco J., Silva L., Desimoni J., II Reunión Conjunta SUF-AFA, 2011, Montevideo, Uruguay.
- "Modelling ¹³⁷Cs activity profiles in soils of the province of Buenos Aires-Argentina", M. L. Montes, R. C. Mercader, L. M. S. Silva, C. S. A. Sá, M. A. Taylor, J. Runco, P. C. Rivas and J. Desimoni, 1st International Congress on Water, Waste and Energy Management, Salamanca, Spain, 2012.
- "Simulation of biomass gasification in circulating fluidized bed reactor by Aspen Plus", T. S. Pinho, A. M. Ribeiro, L. M. S. Silva, 1st International Congress on Water, Waste and Energy Management, Salamanca, Spain, 2012 (oral communication).
- "Pyrolysis of cork residues – preliminary results", J. Teixeira, D. Direito, A. Crispim, A. M. Ribeiro, L. M. S. Silva, 1st International Congress on Water, Waste and Energy Management, Salamanca, Spain, 2012
- "¹³⁷Cs in Argentinean soils: Inventory, depth profiles and transport modeling", M. L. Montes, L. M. S. Silva, C. S. A. Sá, J. Runco, M. A. Taylor and J. Desimoni, 1^{er} Congreso Internacional de Ciencia y Tecnología Ambiental, Mar del Plata, Argentina, 2012.
- "Shutdown scenario for an amine treating unit of a refinery", C. S. A. Sá, L. M. S. Silva, ANQUE International Congress of Chemical Engineering, EFCE event n° 701, Sevilla, Spain, 2012 (oral communication).
- "Mass spectrometry parameters optimization for the 46 multiclass pesticides determination with gas chromatography ion-trap tandem mass spectrometry", V. C. Fernandes, J. L. Vera, V. F. Domingues, L. M. S. Silva, N. Mateus, C. Delerue-Matos, *Journal of The American Society for Mass Spectrometry* **23**(12), 2187-2197, 2012. (DOI: 10.1007/s13361-012-0488-6)
- "Inventories and concentration profiles of ¹³⁷Cs in undisturbed soils in the northeast of Buenos Aires Province, Argentina", M.L. Montes, L.M.S. Silva, C.S.A. Sá, J. Runco, M.A. Taylor and J. Desimoni, *Journal of Environmental Radioactivity* **116**, 133-140, 2013. (DOI: 10.1016/j.jenvrad.2012.10.003)

PERSONAL INTERESTS

Visiting Modern Art galleries, Art and Science Museums and archaeological sites. Love to travel and experience different cultures and food. Enjoy gardening and puzzles.