

CURRICULUM VITAE

Name : Maria Vlachou
Year of Birth : 1986
Nationality : Greek
E-mail : marvlach@gmail.com

1. EDUCATION

- Oct. 2012 – Today PhD Candidate: Department of Chemistry, Aristotle University of Thessaloniki in Greece
PhD Thesis: Highly efficient flow boiling macro-structured/macro-porous channels
- Oct. 2010 – Dec. 2011 Postgraduate Studies: Environmental and Sanitary Engineering, Technical University of Crete in Greece (Degree: 9,19/10)
Master thesis: Chromium (Cr⁶⁺) and nickel (Ni²⁺) removal from aquatic solutions by electrocoagulation
- Nov. 2009 – May 2012 Diploma in Economics: International Program, London School of Economics (Degree: Merit)
- Oct. 2004 – Nov. 2009 Graduate Studies: Chemical and Process Engineering, Aristotle University of Thessaloniki in Greece (General degree: 8,28/10)
Diploma thesis: Bioreduction of Cr(VI) to Cr(III) by the microorganism Arthrobacter sp.
- Sept. 2001 – June 2004 11th Lycee of Thessaloniki (Degree 18,4/20)

Scholarships:

- Graduate Studies: Scholarship for the academic year 2008-9, School of Chemical Engineering, Division of Chemistry, Aristotle University of Thessaloniki
- Postgraduate Studies: Scholarship for the academic year 2010-11, School of Environmental Engineering, Division of Toxic and Hazardous Waste Management, Technical University of Crete
- PhD studies: IKY Fellowships of excellence for postgraduate studies in Greece – SIEMENS program 2012-2016, School of Chemistry, Division of Chemical Technology, Aristotle University of Thessaloniki
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2. FOREIGN LANGUAGES

- English: Certificate of Proficiency – University of Michigan
- German: Zertifikat Neugnis – Goethe Institut
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3. SKILLS

A. COMPUTER

Microsoft office, internet

Programming languages: Matlab, Fortran

Process simulation/ design programs: ASPEN plus, ISC3, Argus ONE, GIS,
COMSOL Multiphysics, SolidWorks

B. ATTENDANCE AT MEETINGS – CONGRESSES – TRAININGS

4-7 May 2015	“From Innovation to Entrepreneurship...”, Training School of COST MP1106 Smart and Green Interfaces, Dissemination Centre, Aristotle University of Thessaloniki, Greece
16-18 July 2013	“Cultivating Entrepreneurial Ideas”, Training School of COST MP1106 Smart and Green Interfaces, Dissemination Centre, Aristotle University of Thessaloniki, Greece
23-25 Apr. 2013	“A way to Smart Europe”, Training School of COST MP1106 Smart and Green Interfaces, University of Twente, Enschede, The Netherlands
Feb.-Apr. 2013	Training program: Transferable/ Key Competences for Doctoral Candidates, Aristotle University of Thessaloniki, Greece
23-25 Apr. 2010	14 th Hellenic Medicinal Chemistry Symposium, Teloglion Foundation of Arts, Aristotle University of Thessaloniki, Greece
3-5 June 2009	7 th National Congress of Chemical Engineering, Conference and culture hall of University of Patras, Greece
29 Nov. 2008	Conference: The contribution of Green Chemistry to the protection of the environment – Biofuels, Hyatt Regency, Thessaloniki, Greece

4. WORK EXPERIENCE

July 2012 – Today	Experimental work and data processing in the Chemical Technology lab, School of Chemistry, Aristotle University of Thessaloniki, Greece: <i>Research Programs funded by European Space Agency (ESA)</i>
June – July 2014	Organizing Committee of EUFOAM 2014, 10 th European Conference on Foams, Emulsions and Applications, Thessaloniki, Greece.
Sept. 2009 – Nov.2009	Experimental work in the Particles, Polymers and Biomaterials Technology lab of Chemical Engineering Department, University of Coimbra (CIEPQPF), Portugal. <i>Project: Preparation and characterization of pectin-chitosan composite scaffolds for bone tissue Engineering</i>
Aug.2009 – Sept.2009	Chemical analysis in the laboratory of the winery «Domaine Gerovassiliou», Epanomi, Greece.
June2008 – Aug.2008	Experimental work in the Colloidal Engineering lab of Chemical Engineering Department, Strathclyde University, Glasgow, Scotland. <i>Project: Engineering of sol-gel formation processes of nanoporous carbon aerogels</i>

5. PUBLICATIONS

A. JOURNALS

1. M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, "Heat transfer enhancement in boiling over modified surfaces: A critical review", *Interfacial Phenomena and Heat Transfer*, 3 (4), 341-367 (2015).
2. M. Vlachou, J. Hahladakis, E. Gidarakos, "Effect of various parameters in removing Cr and Ni from model wastewater by using electrocoagulation", *GlobalNEST*, 15 (4), 494-503 (2013).

B. CONFERENCES

1. M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, "Flow boiling incipience in macro-channels: Working conditions that maximize heat removal" oral, *Smart and Green Interfaces Conference & COST MP1106 Annual meeting*, Athens, Greece, May 4-6 (2016).
2. M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, "Highly subcooled flow boiling in macro-channels: Effect of channel's height and orientation" poster, *Smart and Green Interfaces Conference & COST MP1106 Annual meeting*, Athens, Greece, May 4-6 (2016).
3. M. C. Vlachou, J. S. Lioumbas, C. David, T. D. Karapantsios, "Subcooled flow boiling in a rectangular macro-channel at high mass flow rates: Performance of horizontal and vertical orientation", poster & short oral, *International Symposium and School for Young Scientists Interfacial Phenomena and Heat Transfer*, Novosibirsk, Russia, March 2-4 (2016).

Award: "Best poster" of the session "Flow boiling, shear-driven films: CHF, nano and microstructured surfaces, wave structure, dry spots".

4. M. C. Vlachou, J. S. Lioumbas, C. N. David, D. Chasapis, T. D. Karapantsios, "Heat transfer characteristics during subcooled flow boiling: Influence of inclination angle" oral, *6th International Conference on Bubble and Drop interfaces*, Potsdam-Golm, Germany, July 6-10 (2015).
 5. M. C. Vlachou, J. S. Lioumbas, T. D. Karapantsios, "Flow boiling heat transfer as means of cooling in a rectangular macrochannel" oral, *Smart and Green Interfaces Conference & COST MP1106 Annual meeting*, Belgrade, Serbia, March 30 – April 1 (2015).
 6. M. Vlachou, J. Lioumbas, T. Karapantsios, "Device for the study of highly efficient flow boiling heat transfer in a macro-channel" poster, *5th International Conference on Heat Transfer and Fluid Flow in Microscale*, Marseille, France, April 22-24 (2014).
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