

PERSONAL INFORMATION

Aikaterini – Flora Trompeta



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✉ ktrompeta@chemeng.ntua.gr

Sex Female | Date of birth 07/04/1990 | Nationality Greek

POSITION

Chemical Engineer, PhD candidate

INTERNSHIPS

01/04/2012 – 12/04/2013

Quality control of industrial and marine paints

Wilckens Paints S.A. (119, Archimidous, 19400, Profarta, Koropi, Greece, www.wilckens-paints.com)

- Rheology & Viscosity testing for resins and paints
- Quality control for paints during production

30/07/2012 – 31/08/2012

Chemical Analysis (IAESTE)

Bálint Analitika Ltd (1116 Budapest, Fehérvári út 144, Hungary / www.balintanalitika.hu/)

- UV – Vis Spectroscopy
- Calorimetry
- Chemical Analysis (wasted water, ground)
- Conductivity & pH measurements

EDUCATION AND TRAINING

02/2014 – 10/2015

Master of Material Science and Engineering (Grade: 9.6/10)

National Technical University of Athens, School of Chemical Engineering

Thesis: Study on the carbon nanotubes incorporation in organic coatings (Grade: 10/10)

Supervisor: C.A. Charitidis

10/2008 – 7/2013

Chemical Engineering Diploma (Grade: 8.34/10)

National Technical University of Athens, School of Chemical Engineering

Thesis: Quality control for industrial and marine paints with emphasis on viscosity (Grade: 10/10)

Supervisor: C.A. Charitidis

09/2002 – 06/2008

High School Diploma (Grade: 19.6/20)

Arsakeio Tositseio Ekalis

PERSONAL SKILLS

Mother tongue(s)

Greek

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Certificate of Proficiency in English (University of Michigan)					
German	B1	B1	B1	B1	B1
Zertifikat Deutsch (Goethe – Institut) / Befriedigend					

- Lab Experience**
- Production and functionalisation of CNTs, Nanomechanics & Nanotechnology Laboratory (R - NanoLab) School of Chemical Engineering, Supervisor: CA Charitidis, Professor NTUA
 - Optical microscopy/ Phase diagrams of metals and alloys, course "Metallic Materials"
 - Measuring the viscosity coefficient, Laboratory of Physical Chemistry of the Faculty of Chemical Engineering, course "Physical Chemistry II", Supervisor: S. Polymenis, Assistant Professor NTUA
 - Support students for Fortran programming, Personal Computing Laboratory of the School of Chemical Engineering, course "Programming and Using PCs", Supervisor: A. Boudouvis

- Computer skills**
- Microsoft Office™ tools
 - Windows (XP, Vista, 2007, 2008)
 - Programming: Fortran, Matlab
 - Simulation: ASPEN, Comsol
 - Mathematica, Mathcad, Origin Pro 8, SciDAvis
 - Autocad
 - Databases: Lingua, Act

ADDITIONAL INFORMATION

- Seminars/Workshops**
- **EuroNanoForum**, Valletta, Malta, 21-23/06/2017
 - **5th Nano-Carbon Enhanced Materials Consortium (NCEM-5)**, Brussels, Belgium, 29-30/03/2017
 - **Crackling at the mesoscale: Micromechanical modelling of dynamic plasticity**, Dr. Papanikolaou, National Technical University of Athens, 21/05/2014
 - **Biocides regulations**, Holiday Inn, 23/04/2014
 - **Single-Wall and Multi-Wall Carbon Nanotube - Polymer Nanocomposites**, Dr Pravin Jagdale National Technical University of Athens, School of Chemical Engineering, 14/02/2014
 - **Carbonaceous materials for supercapacitors: from research to market**, Dr Paolo Bondavalli, National Technical University of Athens, School of Chemical Engineering, 14/02/2014
 - **2nd Hellenic Forum for Science, Technology and Innovation**, National Center for Scientific Research "DEMOKRITOS", 30 - 04/07/2013
 - **9th National Conference of Chemical Engineering**, National Technical University of Athens, 23-25/05/2013
 - **Financing opportunities for young innovative enterprises**, Unit of Innovation and Entrepreneurship (MoKE), 03/04/2013
 - **Intellectual property and innovative entrepreneurship**, (EBEA), 26/04/2013
 - **12th Paints Symposium**, National Technical University of Athens, 2013

- Honours and awards**
- Limmatt Stiftung award for excellence in Master Studies (1st graduate)
 - IKY Fellowships of Excellence for Postgraduate Studies In Greece – Siemens Program
 - Joint Seafront-Byefouling Workshop 2016 award for poster presentation (3rd prize)
 - Thomaideio award 2015 for the publication: CA Charitidis, AF Trompeta, N Vlachou, V Markakis
 - Risk management of engineered nanomaterials in EU-The case of carbon nanotubes and carbon nanofibers: A review, Transactions of the Materials Research Society of Japan 2016, 41 (1), 1-11
 - Thomaideio award 2014 for the publication: Charitidis CA, Georgiou P, Koklioti MA, Trompeta A-F and Markakis V: Manufacturing nanomaterials: from research to industry. Manufacturing Rev. 2014, 1, 11.
 - Thomaideio award 2013 for the presentation: Rheological Properties of Alkyd Resins & Alkyd Paints (Oral), A.F. Trompeta, C.A. Charitidis 29th Panhellenic Conference on Solid State Physics and Material Science, 22-25 September 2013, Athens

- Research projects**
- Modified cost effective fibre based structures with improved multi-functionality and performance (**MODCOMP**), C.A. Charitidis
 - A novel process for manufacturing complex shaped Fe-Al intermetallic parts resistant to extreme environments (**EQUINOX**), C.A. Charitidis
 - Low-toxic cost-efficient environment-friendly antifouling materials (**BYEFOULING**), C.A. Charitidis
 - Novel Self-Healing Eco-friendly Coatings with Antifouling and Anticorrosion Properties for Maritime Applications (**MARIPAINTS**), C.A. Charitidis
 - Development and implementation of a quality control system in gas stations, E. Lois

Publications

1. A.-F. A. Trompeta, EP Koumoulos, IA Kartsonakis, CA Charitidis, Advanced characterization of by-product carbon film obtained by thermal chemical vapor deposition during CNT manufacturing, *Manufacturing Review* 4, 7, 2017.
2. Trompeta, A.-F., et al., Towards a holistic environmental impact assessment of carbon nanotube growth through chemical vapour deposition, *J. Clean. Prod.* 2016, 129, 384–394.
3. E. P. Koumoulos, Th. Parousis, A.-F. A. Trompeta, I. A. Kartsonakis and C. A. Charitidis, Investigation of MWCNT addition into poly- dimethylsiloxane-based coatings, *Plastics, Rubber and Composites*, 45:3, 106-117, 2016
4. Manfredi Allegri, Dimitrios K. Perivoliotis, Massimiliano G. Bianchi, Martina Chiu, Alessandra Pagliaro, Malamatenia A. Koklioti, Aikaterini-Flora A. Trompeta, Enrico Bergamaschi, Ovidio Bussolati, Constantinos A. Charitidis, Toxicity determinants of Multi-Walled Carbon Nanotubes: the relationship between functionalization and agglomeration, *Toxicology Reports* 2016, 3, 230-343
5. Costas A. Charitidis, Aikaterini – Flora Trompeta, Nikoletta Vlachou and Vassileios Markakis, Risk management of engineered nanomaterials in EU-The case of carbon nanotubes and carbon fibers, *J. Clean. Prod.* 2016, 129, 384–394.
6. Charitidis CA, Georgiou P, Koklioti MA, Trompeta A-F and Markakis V: Manufacturing nanomaterials: from research to industry. *Manufacturing Rev.* 2014, 1, 11.

Presentations

1. **Rheological Properties of Alkyd Resins & Alkyd Paints** (Oral), A.F. Trompeta, C.A. Charitidis 29th Panhellenic Conference on Solid State Physics and Material Science, 22-25 September 2013, Athens
2. **Risk management of engineered nanomaterials in EU. The case of carbon nanotubes and carbon nanofibers** (Oral, Co-author), C.A. Charitidis, A. F. Trompeta, N.Vlachou, V.Markakis ,15th International Union of Materials Research of Societies, International Symposium on the Social Acceptance of Engineered Nanomaterials, 24-30 August 2014, Fukuoka, Japan
3. **Evaluation of the influence of innovative antifouling solutions on the environmental impact of maritime transportation** (Poster), S.Dropsit, N.Vlachou, A. F. Trompeta, C.A.Charitidis, O.Talon, 4th (avniR) Conference in Lille, 5-6 November 2014
4. **Ecotoxicity effect of multi walled carbon nanotubes** (Oral, Co-author), C. Piller, E. Gunter-Hoch, N. Vlachou, D. Perivoliotis, A.F. Trompeta, A. Skarmoutsou, Y. Benayahu, C.A. Charitidis, Sustainable Nanotechnology Conference 2015, 9-11 March 2015 in Venice, Italy
5. **Nanomechanical and Electrochemical Properties of Nano-composite Coatings for Maritime Applications** (Oral), A.-F. Trompeta, D. K. Perivoliotis, E. K. Karaxi, E. Milioni, A. Karantonis, A. Skarmoutsou, C. A. Charitidis, International Conference in Environment & Energy in Ships, Athens 22-24 May 2015
6. **Life Cycle Assessment as a Prerequisite Tool in Maritime Industry** (Oral, Co-author), N. Vlachou, A.-F. Trompeta, H. Sarimveis, C. A. Charitidis, International Conference in Environment & Energy in Ships, Athens, 22-24 May 2015
7. **Carbon Nanotubes and their Effect on E. Coli Viability** (Poster), N. Vlachou, A.-F. Trompeta, D. Perivoliotis, D. Mamma, A. Skarmoutsou, D. Kekos, C.A. Charitidis, 10th Panhellenic Conference of Chemical Engineering, 4-6 June 2015, Patra
8. **Environmental Assessment of Carbon Nanotubes Synthesis via Chemical Vapor Deposition** (Oral), A.F. Trompeta, N. Vlachou, D.K. Perivoliotis, M.A. Koklioti, V. Markakis, G. Tsiliki, H. Sarimveis, C.A. Charitidis, 10th Panhellenic Conference of Chemical Engineering, 4-6 June 2015, Patra
9. **Novel Eco-friendly Nanocomposite Coatings with Antifouling and Mechanical Properties for Maritime Applications** (Poster), A.- F. Trompeta, E. Milioni, I. A. Kartsonakis, E. P. Koumoulos, C. A. Charitidis, EuroNanoForum 10-12 June 2015, Riga, Latvia
10. **CNTs and antifouling coatings: sustainable synthesis, safe-by design and release assessment**, Aikaterini Flora Trompeta, Vassileios Markakis, Elias P. Koumoulos, Costas A. Charitidis , ETCC 2016
11. **Improved surface properties of antifouling coatings by incorporation of carbon nanotubes**, A.F. Trompeta, I.A. Kartsonakis, V. Markakis, E.P. Koumoulos, C.A. Charitidis, Joint Seafont –Byefouling Workshop 2016, 24 June, Toulon
- 12.
13. **Corrosion and mechanical performance of a novel antifouling system containing nanoreservoirs**, (Oral, Co-author), A.-F.A.Trompeta, I.A. Kartsonakis, E.P. Koumoulos, D. Mata, M.J. Ferreira, F. Maia, J. Tedim, C.A. Charitidis, EUROCORR 2017, 4-8 September 2017, Prague