

CURRICULUM VITAE

PERSONAL INFORMATION

SURNAME : Petropoulou
FIRST NAME : Eirini
DATE OF BIRTH : 03-11-1988
PLACE OF BIRTH : Athens, Greece
NATIONALITY : Hellenic
MARITAL STATUS : Single
ADDRESS : 9 Iras str., Ilion, 13122 Athens, Greece
E-MAIL : epetr@chemeng.ntua.gr

EDUCATION

MAY 2012 - now

PhD Candidate at the Thermodynamics and Transport Phenomena Laboratory, School of Chemical Engineering, National Technical University of Athens

Theme: «Development of a group contribution equation of state to predict the thermodynamic properties of associating mixtures»

Scholarships

1. Scholarship from E.L.K.E. N.T.U.A. for the academic years 2012-2013, 2013-2014, 2014-2015, 2015-2016
2. Thomaidis Award for the ““ *Thermodynamic Modelling to Enhance Natural Gas Quality*”, which was announced at the 11th CONCAWE Symposium

2006 - 2011

Diploma in Chemical Engineering

School of Chemical Engineering, National Technical University of Athens

Grade: “Very good”, (8.12/10, 17th from 133 graduates)

- Diploma thesis: “Development of a characterization method for the C7+ heavy end of natural gas mixtures”, (Grade 10)
Thermodynamics and Transport Phenomena Laboratory,
School of Chemical Engineering, NTUA.
- Direction: Process Engineering

2003 - 2006

Secondary Education

High School Degree: “Excellent”, (19.2/20)

LANGUAGE SKILLS

Greek
English
French
Japanese

Mothertongue
 Excellent (C2 level, Proficiency, University of Cambridge)
 Very Good (B1 level, Delf 1^{er} degré)
 Beginner

PC SKILLS

Process Simulators	Aspen plus, HYSYS, UNISIM
Programming Languages	FORTRAN, BASIC, Pascal, Matlab, VBA
Software	MS Office Package, MS Visio, MathCAD, COMSOL Multiphysics, AutoCAD
Operating Systems	Windows, MS DOS

SEMINARS

6-17 JAN. 2014	<p>“<i>Thermodynamic models; fundamentals and computational aspects</i>” Center for Energy Resources Engineering, Technical University of Denmark, Copenhagen, Denmark</p>
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EXPERIENCE

APR. – JUL. 2017	<p>SINTEF Energi AS, Gassteknologi Kolbjørn Hejes vei 1, 7034 Trondheim, Norway</p> <p>Research Assistant ECCSEL Transactional Access for the “Measuring of the vapor – liquid equilibrium of CO₂/methane mixture”.</p>
SEPT. 2016 – now	<p>School of Chemical Engineering, National Technical University of Athens Thermodynamics and transport phenomena laboratory, 9, Heroon Polytechniou str, 15780, Zografou campus, Greece</p> <p>Research Assistant at the following projects</p> <ol style="list-style-type: none"> <i>Thermodynamic Modelling of Trace Components of Reservoir Fluids</i> Financial Support: STATOIL A.S., Norway (9/2016- 12/2017) <i>Gas processing and LNG Technologies</i> Financial Support: STATOIL A.S., Norway (5/2017 - 12/2017) <i>Phase and chemical equilibrium modelling of natural gas mixtures containing Hg</i> Financial Support: EQUINOR A.S., Norway (9/2017- 8/2020)
SEPT. 2011 - now	<p>School of Chemical Engineering, National Technical University of Athens Thermodynamics and transport phenomena laboratory, 9, Heroon Polytechniou str, 15780, Zografou campus, Greece</p> <p>Teaching Assistant</p> <ul style="list-style-type: none"> Applied Thermodynamics Chemical Engineering Thermodynamics Process Development Engineering (Supervision of the laboratory exercise of distillation in a pilot unit) Supervision and assistance in diploma thesis
JUL. 2010 – AUG. 2010	<p>Aalto University School of Science and Technology Department of Engineering Design and Production, Laboratory of Engineering Materials, Puumiehenkuja 3, Espoo, P.O. BOX 14200, Finland</p>

Research Assistant

“Synthesis and Characterisation of Metal-based Nano-composites Reinforced with CNTs and CNFs.”

PROFESSIONAL SOCIETIES**FEB. 2012 - now**

Member of the Technical Chamber of Greece

PUBLICATIONS

- E. Petropoulou, G.D. Pappa, E. Voutsas, *Modelling of phase equilibrium of natural gas mixtures containing associating compounds*, Fluid Phase Equilibria, 433 (2017) 135-148
- E. Voutsas, N. Novak, V. Louli, G. Pappa, E. Petropoulou, C. Boukouvalas, E. Panteli, E. Skouras, *“Thermodynamic modelling of natural gas and gas condensate mixtures”* in Natural Gas Processing from Midstream to Downstream, Wiley (in press).
- E. Petropoulou, E. Voutsas, S.F. Westman, A. Austegard, H.G.J. Stang, S.W. Løvseth, *Vapor - liquid equilibrium of the carbon dioxide/methane mixture at three isotherms*, fluid phase equilibria (2018) 462, 44-58.
- E. Petropoulou, E. Voutsas, *Thermodynamic Modeling and Simulation of Natural Gas Dehydration Using Triethylene Glycol with the UMR-PRU Model*. Industrial & engineering chemistry research (in press) DOI: 10.1021/acs.iecr.8b01627

COMMUNICATIONS

- Petropoulou E., Voutsas E., *Dew Point Prediction of Natural Gas Mixtures*, 10th Concawe Symposium, February 25-26, 2013, Brussels, Belgium (poster)
- E. Petropoulou, E. Voutsas, *Phase Equilibrium in Aqueous Hydrocarbon mixtures with Hydrate Inhibitors*, 27th European Symposium of Applied Thermodynamics, July 6-9th 2014, Eindhoven, the Netherlands (poster)
- E. Petropoulou, E. Voutsas, *Thermodynamic Modelling to Enhance Natural Gas Quality*, 11th Concawe Symposium, 23-24 February 2015, Brussels, Belgium (poster)
- E. G. Petropoulou, E. C. Voutsas, *Thermodynamic Modelling of Industrially Important Associating Mixtures*, 28th ESAT, June 11th – 14th 2015, Athens, Greece (oral)
- E. Petropoulou, G.D. Pappa, K. Magoulas, E. Voutsas, *Simulation of a Natural Gas Dehydration Process with the UMR-PRU model*, 29th European Symposium of Applied Thermodynamics, May 18-21th 2017, Bucharest, Romania (poster)
- N. Novak, E. Petropoulou, A. Plakia. K. Pittas, V. Louli, G. Pappa, C. Boukouvalas, E. Voutsas, *Prediction of Dew point and Liquid Dropout of Natural Gas and Gas Condensates*, 29th European Symposium of Applied Thermodynamics, May 18-21th 2017, Bucharest, Romania (poster)
- N. Novak, E. Petropoulou, K. Pittas, A. Plakia. V. Louli, G. Pappa, C. Boukouvalas, E. Voutsas, *Thermodynamic modelling and simulation of natural gas processes*, 11th National Scientific Conference of Chemical Engineering, May 25-27 2017, Thessaloniki, Greece
- E. Petropoulou, E. Voutsas, *Extension of the UMR-PRU model to natural gas mixtures containing glycols and application to natural gas dehydration process*, 30th European Symposium of Applied Thermodynamics, June 10-13th 2018, Prague, Czech Republic (oral)
- M. Chiliou, E. Petropoulou, E. Spanidi, K. Gardikis, V. Louli, K. Magoulas, *Supercritical fluid extraction of Cistus Creticus: Experiments and Modelling*, 30th European Symposium of Applied Thermodynamics, June 10-13th 2018, Prague, Czech Republic (poster)