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## Personal Information

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**Surname** : Pappa  
**Name** : Georgia  
**Date of Birth** : 23-08-1969  
**Country** : Greece  
**Profession** : Dr. Chemical Engineer  
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## Education

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<b>1987 -1993</b>	Diploma in Chemical Engineering, Aristotle University of Thessaloniki
<b>1997 –2002</b>	Ph.D. in Chemical Engineering, National Technical University of Athens (NTUA)

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## Professional Societies

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Member of the Technical Chamber of Greece  
Member of Hellenic Association of Chemical Engineers  
Member of Hellenic Association of Women Engineers

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## Professional Experience

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<b>2001 – today</b>	Employee of NTUA
<b>1997 – today</b>	<b>Educational work</b> Participation in the tutorial and organization process of laboratory exercises.
<b>1996 – today</b>	<b>Research Work</b> Participation in the following scientific projects as a researcher of the Thermodynamics & Transport Phenomena Laboratory of NTUA:  <i>Plastics – Integrated Technology</i> Financial Support: Program EPET, GSRT (Greek General Secretariat for Research and Technology) Duration: January 1995 – December 1998

*Improved Lipase Synthesis of Sugar Esters by Combined Enzyme and Solvent Engineering*

Financial Support: BIO4-CT98-0363, EU

Duration: January 1999 - January 2001

*Enzymatic Transformation of Natural Antioxidants for the Optimization of the of their Recovery Process from Industrial Wastes and the Improvement of their Properties*

Financial Support: Program EPET II , GSRT

Duration: January 1999 – May 2001

*Thermodynamic Modeling of Phase Equilibrium of Polymer Mixtures through Molecular Simulation, Macroscopic Models and Experimental Measurements*

Financial Support: Program PENED99 (99ED143), GSRT

Duration: October 1999 – September 2001

*Production of composites from recycled paper-pulp and polyethylene*

Financial Support: ELKEDE

Duration: July 2002 – December 2002

*Production of composites from recycled paper-pulp and polypropylene*

Financial Support: ELKEDE

Duration: September 2003 – January 2004

*Development of a Simulator for the Prediction of Acid Dew Point of Flue Gases*

Financial Support: Greek Public Power Corporation S.A.

Duration: May 2005 – November 2006

*Environmental management of the fly ash produced from the municipal solid waste incinerators with electricity production*

Financial Support: INTRAKAT S.A.

Duration: December 2008 – December 2009

*Gas processing and Liquefied Natural Gas Technologies*

Financial Support: STATOIL S.A., Norway.

Duration: July 2009 – December 2009

*Gas processing and Liquefied Natural Gas Technologies, Phase II: Prediction of phase equilibrium in hydrocarbon mixtures*

Financial Support: STATOIL S.A., Norway.

Duration: February 2010 – September 2010

*Gas processing and Liquefied Natural Gas Technologies: Simulator development / Process design with the UMR-PRU model*

Financial Support: STATOIL S.A., Norway.

Duration: May 2011 – December 2012

*Gas processing and Liquefied Natural Gas Technologies: Further development of the UMR-PRU model/Technical support DLL-file*

Financial Support: STATOIL S.A., Norway.

Duration: May 2011 – December 2012

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## Other Research Activities

### Reviewer in the following Scientific Journals

Industrial & Engineering Chemistry Research, Chemical Engineering Science, Asia Pacific Journal of Chemical Engineering.

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## Publications

### Publications in International Journals

G.D. Pappa, G.M. Kontogeorgis and D.P. Tassios, **1997**. "Prediction of Ternary Liquid-Liquid Equilibria in Polymer-Solvent-Solvent Systems", *Ind. Eng. Chem. Res.*, 36 (12), 5461.

G.D. Pappa, E.C. Voutsas and D.P. Tassios, **1999**. "Prediction of Activity Coefficients in Polymer and Copolymer Solutions using Simple Activity Coefficient Models" *Ind. Eng. Chem. Res.*, 38, 4975.

G. Pappa, E. Voutsas and D.P. Tassios, **2001**. "Liquid-Liquid Phase Equilibrium in Polymer-Solvent Systems: Correlation and Prediction of the Polymer Molecular Weight and the Pressure Effect", *Ind. Eng. Chem. Res.*, 40, 4654.

G. Pappa, Ch. Boukouvalas, K. Giannaris, N. Ntaras, V. Zografos, K. Magoulas, A. Lygeros and D.Tassios., **2001**. "The Selective Dissolution/Precipitation technique for polymer recycling: A Pilot Unit Application". *Conservation, Resources & Recycling*, 34(1), 33-44.

E.A. Tritopoulou, G.D. Pappa, E.C. Voutsas, I.G. Economou, D.P. Tassios, **2003**. "Modeling of liquid-liquid phase equilibria in aqueous solutions of poly(ethylene glycol) with a UNIFAC-based model". *Ind. Eng. Chem. Res.*, 42 (21), 5399-5408

E.C. Voutsas, G.D. Pappa, C.J. Boukouvalas, K. Magoulas, D.P. Tassios, **2004**. "Miscibility in Binary Polymer Blends: Correlation and Prediction". *Ind. Eng. Chem. Res.*, 43 (5), 1312-1321.

G.D. Pappa, E.C. Voutsas, K. Magoulas, D.P. Tassios, **2005**. "Estimation of the differential molar heat capacities of organic compounds at their melting point". *Ind. Eng. Chem. Res.*, 44(10), 3799-3806.

I. Baroulaki, J.A. Mergos, G. Pappa, P.A. Tarantili, D. Economides, K. Magoulas, C.T. Dervos, **2006**. "Performance of polyolefin composites containing recycled paper fibers". *Polymers for Advanced Technologies* 17(11-12), 954-966.

- I. Baroulaki, O. Karakasi, G. Pappa, P.A. Tarantili, D. Economides, K. Magoulas, **2006**. "Preparation and study of plastic compounds containing polyolefins and post used newspaper fibers". *Composites Part A: Applied Science and Manufacturing*, 37(10), 1613-1625.
- G.D. Pappa, C. Anastasi, E.C. Voutsas, **2006**. "Measurement and thermodynamic modeling of the phase equilibrium of aqueous 2-amino-2-methyl-1-propanol solutions". *Fluid Phase Equilib.* 243(1-2), 193-197.
- E.C. Voutsas, G.D. Pappa, K. Magoulas, D.P. Tassios, **2006**. "Vapor liquid equilibrium modeling of alkane systems with Equations of State: simplicity versus complexity". *Fluid Phase Equilib.*, 240(2), 127-139.
- E. Voutsas, C. Perakis, G. Pappa, D. Tassios, **2007**. "An evaluation of the performance of the Cubic-Plus-Association equation of state in mixtures of non-polar, polar and associating compounds: Towards a single model for non-polymeric systems". *Fluid Phase Equilib.*, 261(1-2), 343-350.
- G. Katsoulotos, G. Pappa, P.A. Tarantili, K. Magoulas, **2008**. "Preparation and characterization of functionalized low density polyethylene matrix biocomposites". *Pol. Eng. Sci.*, 48(5), 902-911.
- E.I. Alevizou, G.D. Pappa, E.C. Voutsas, **2009**. "Prediction of phase equilibrium in mixtures containing ionic liquids using UNIFAC". *Fluid Phase Equilib.* 284(2), 99-105.
- G.D. Pappa, C. Perakis, I.N. Tsimpanogiannis, E.C. Voutsas, **2009**. "Thermodynamic modeling of the vapor-liquid equilibrium of the CO<sub>2</sub>/H<sub>2</sub>O mixture". *Fluid Phase Equilib.* 284(1), 56-63.
- E.C. Voutsas, C. Pamouktsis, D. Argyris, G.D. Pappa, **2011**. "Measurements and thermodynamic modeling of the ethanol-water system with emphasis to the azeotropic region" *Fluid Phase Equilib.* 308 (1-2), 135-141.
- G.D. Pappa, V. Louli, K. Dedousi, E.C. Voutsas, **2011**. "Phase equilibria of mixtures containing CO<sub>2</sub> and organic acids using the UMR-PRU model", *J. Supercritical Fluids*, in press

#### Communications in International Conferences

- G.D. Pappa, G.M. Kontogeorgis and D.P. Tassios, "Liquid-Liquid Equilibria Prediction for Ternary Polymer Solutions with Engineering Models", 16<sup>th</sup> European Seminar on Applied Thermodynamics, Pont-a-Mousson, France, June 19-22, 1997.
- G.D. Pappa, E.C. Voutsas and D.P. Tassios "Prediction of Activity Coefficients in Polymer Systems with Simple Activity Coefficient Models", 17<sup>th</sup> European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
- G.D. Pappa, K. Magoulas, A. Lygeros, D. Tassios, K. Papaspyrides. "Polymer Recycling through a Selective Dissolution Process: a Pilot Plant Application", 17<sup>th</sup> European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
- G. Pappa, E. Ambatzi, E. Voutsas, D. Tassios, "Correlation And Prediction Of Liquid-Liquid Equilibria In Polymer Solutions" 18<sup>th</sup> European Seminar on Applied Thermodynamics Kutna Hora, Czech Republic, 8-11 June 2000.

- Ch. Boukouvalas, G. Pappa, E. Voutsas, K. Magoulas and D. Tassios. "Prediction of the Molecular Weight Effect in Polymer Blend Miscibility with UNIFAC and EoS", 19<sup>th</sup> European Seminar on Applied Thermodynamics, Santorini, Greece, 2002.
- E. Tritopoulou, G. Pappa, E. Voutsas, I. Economou, D. Tassios. "Modeling of Liquid-Liquid Equilibrium in Aqueous Solutions of Poly(ethylene glycol) " 19<sup>th</sup> European Seminar on Applied Thermodynamics, Santorini, Greece, 2002.
- E. Voutsas, G. Pappa, Ch. Boukouvalas, K. Magoulas, D. Tassios "Correlation and Prediction of Miscibility in Polymer Blends, 20th European Symposium on Applied Thermodynamics, Lahnstein, Germany, 2003.
- E. Tritopoulou, G. Pappa, E. Voutsas, I. Economou, D. Tassios "Liquid-Liquid Phase Equilibrium in Aqueous PEG Solutions", 20th European Symposium on Applied Thermodynamics, Lahnstein, Germany, 2003.
- E. Voutsas, G. Pappa, K. Magoulas, D. Tassios. "Correlation and Prediction of Phase Equilibria in Asymmetric Alkane Systems: Simplicity versus Complexity", 21th European Seminar on Applied Thermodynamics, Jurata, Poland, 2005.
- E. Voutsas, N. Botis, V. Louli, Ch. Boukouvalas, G. Pappa, K. Magoulas, D. Tassios. "Thermodynamic Property Calculations with the Universal Mixing Rule for EoS/GE Models", 22th European Seminar on Applied Thermodynamics, Elsinore, Denmark, 2006.
- Ch. Perakis, G. Pappa, E. Voutsas, D. Tassios. "Phase Equilibrium Calculations with the Cubic-Plus-Association and PC-SAFT EoS: Is the Simpler Physical Term of the Former a Disadvantage?" 11th International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, 2007.
- E. Panteli, E. Mandilari, Ch. Vafiadi, G. Pappa, E. Voutsas, H. Stamatis, P. Christakopoulos. "Experimental Measurements and Thermodynamic Modelling of the Solubility of Compounds of Biotechnological Interest in Organic Solvents and Ionic Liquids", 11th International Conference on Properties and Phase Equilibria for Product and Process Design Hersonissos, Crete, Greece, 2007.
- E. Panteli, P. Saratsioti, E. Alevizou, T. Rontogianni, G. Pappa, C. Boukouvalas, H. Stamatis, E. Voutsas. "Solubility of Cinnamic Acid Esters in Ionic Liquids and Organic Solvents: Experimental Measurements and Thermodynamic Modeling", 23rd European Seminar on Applied Thermodynamics, Cannes, France, 2008.
- M. Psychoyiou, G. Pappa, E. Voutsas. "Measurement and Thermodynamic Modeling of Aqueous Piperazine Solutions", 23rd European Seminar on Applied Thermodynamics, Cannes, France, 2008.
- E. Skouras, V. Louli, G. Pappa, Ch. Boukouvalas, E. Solbraa, E. Voutsas, "Dew point prediction of synthetic and real natural gas mixtures with the UMR-PRU model", CHISA 2010, 28 August- 1 September, Prague, Czech Republic, 2010.
- G. Pappa, V. Louli, S. Stamataki, K. Magoulas, E. Voutsas "Thermodynamic Modeling of the Phase Equilibrium of CO<sub>2</sub> – Organic Acid Systems with the UMR-PRU Model", 25th European Symposium on Applied Thermodynamics, June 24-27, Saint Petersburg, Russia, 2011.