

CURRICULUM VITAE

PERSONAL INFORMATION

SURNAME : Louli
FIRST NAME : Vasiliki
DATE OF BIRTH : 16-11-1974
PLACE OF BIRTH : Athens, Greece
NATIONALITY : Hellenic
MARITAL STATUS : Single
TELEPHONE : +30 210 772 3230 (work)
E-MAIL : svlouli@chemeng.ntua.gr

EDUCATION

1998-2004

Doctoral Dissertation

Development of the Supercritical Fluid Extraction Technique and Applications in the Recovery of Natural Product

Thermodynamics and Transport Phenomena Laboratory
School of Chemical Engineering, National Technical University of Athens (NTUA)

Scholarships – Awards

1. Scholarship from the Eugenidio Institution for the academic year 1998-1999
2. Scholarship from the Institute of Communication and Computer Systems (ICCS), NTUA, for the academic year 1999-2000
3. "D. Thomaidis" award for the article, *Supercritical Fluid Extraction of Celery Seed Oil*, published in the international scientific journal, J. Supercrit. Fluids (2000).
4. "D. Thomaidis" award for the communication, *Solubility of Antioxidants in Supercritical Carbon Dioxide*, presented in the 19th European Seminar on Applied Thermodynamics (Santorini, September 2002).
5. "D. Thomaidis" award for the article, *Extraction of parsley seed oil by supercritical CO₂*, published in the international scientific journal J. Supercrit. Fluids (2004).

1992-1997

Diploma in Chemical Engineering

School of Chemical Engineering, National Technical University of Athens (NTUA).
Grade: "Excellent" 9.27/10 (graduated second out of 150)

- Diploma Thesis: "*Phase Equilibrium in Polymer Solutions with a Cubic Equation of State*", Thermodynamics and Transport Phenomena Laboratory, School of Chem. Eng., NTUA.
- Specialization: Process Analysis and Plant Design

Scholarships – Awards

1. Scholarship from National Scholarship Foundation- given to the best three

- students of each class- for the academic years: 1992-1993 (2nd), 1993-1994 (2nd), 1994-1995 (1st) and 1995-1996 (2nd).
2. Award from Technical Chamber of Greece for the academic years: 1993-1994, 1995-1996 and 1996-1997 (top ten students of the School of Chem. Eng.).
 3. Zografakis Scholarship (NTUA), given to the best student of each class, for the academic years: 1994 -1995 and 1996-1997.
 4. "D. Thomaidis" award of (NTUA) for the academic year: 1996 -1997

PROFESSIONAL EXPERIENCE

Dec. 2001-now Employee of NTUA

1997- now

Research work

Elaboration of studies as a researcher of TTPL. Participation in the following scientific projects:

1. *Plastics – Integrated Technology*
Duration: 4 years (1/95 - 12/98)
Financial Support: GSRT
2. *Improved Lipase Synthesis of Sugar Esters by Combined Enzyme and Solvent Engineering*
Duration: 32 months (09/98-05/2001)
Financial Support: GSRT
3. *Enzymatical Transformation of Natural Antioxidants for the Optimization of the their Recovery Process from Industrial Wastes and the Improvement of their Properties*
Duration: 32 months (09/98-05/2001)
Financial Support: GSRT
4. *Application of Biotechnology to the Selective Improvement of the Properties of Mastic Gum and Mastic Gum Oil*
Duration: 18 months (01/2000-06/2001)
Financial Support: GSRT
5. *Developments and Applications in Supercritical Fluids in Agriculture and Fisheries (DASFAP Network)*
Duration: 3 years (06/98-06/2001)
Financial Support: EU (FAIR-98)
6. *Development of a Pilot Plant for the Supercritical Extraction of Essential Oils from Natural Products*
Duration: 6 months (09/2001-02/2002)
Financial Support: GSRT
7. *Study of the hydrogen bonding effect in the solubility of organic compounds in the supercritical carbon dioxide in the presence of co-solvents.*
Duration: 3 years (11/2002-10/2005)
Financial Support: Heraklitos, Ministry of Education and Religion
8. *Study-Incorporation of Natural Antioxidants in Effective Foodstuffs and Production of Greek effective Foodstuffs using new Technologies*
Duration: 6 months (09/2001-02/2002)
Financial Support: Ministry of Education and Religion
9. *Environmental management of the fly ash produced by the conventional combustion of mixed municipal waste during power generation*

Duration: 1 year (12/2008-12/2009)
Financial Support: INTRAKAT A.E.

10. *Gas processing and Liquefied Natural Gas Technologies*

Duration: 6 months (07/2009-12/2009)
Financial Support: STATOILHYDRO S.A., Norway

11. *Gas processing and Liquefied Natural Gas Technologies- Phase II*

Duration: 6 months (04/2010-09/2010)
Financial Support: STATOILHYDRO S.A., Norway

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

Duration: 20 months (05/2011–12/2012)
Financial Support: STATOIL S.A., Norway

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

Duration: 20 months (05/2011–12/2012)
Financial Support: STATOIL S.A., Norway

Educational work

Participation in the tutorial and organization process of laboratory exercises.

Jul.-Aug. '96

Von Karman Institute for Fluid Dynamics, Rhode Saint Genese, Belgium
Research Project and Technical Report on: *Pollutant Concentration Measurements on the Surface of a Building.*

PROFESSIONAL SOCIETIES

1998- Now	Member of Technical Chamber of Greece
1998- Now	Member of Hellenic Association of Chemical Engineers
2002- Now	Member of Hellenic Association of Women Engineers

FOREIGN LANGUAGES

English	Excellent (Certificate of Proficiency in English, University of Cambridge, June 1996)
Italian	Good (Certificato Medio, PALSO, May 1991)
German	Good (Mittelstufe, Goethe Institute, January 2001)

SPECIAL SKILLS

Programming Language	:	FORTRAN
Operating Systems	:	MS DOS, Windows
Software	:	Ms Word, Ms Excel, Ms PowerPoint, Visio, ASPEN

OTHER SCIENTIFIC ACTIVITIES

Reviewer in the following International Scientific Journals:

Fluid Phase Equilibria, Journal of Supercritical Fluids, The Canadian Journal of Chemical Engineering, Asia Pacific Journal of Chemical Engineering, Chemical Engineering & Technology, Industrial & Engineering Chemistry Research, Journal of Agricultural & Food Chemistry, Bioresource Technology.

PUBLICATIONS – COMMUNICATIONS

Publications in International Scientific Journals	10
Contributions in Books	1
Communications in International Scientific Conferences	20
Communications in National Scientific Conferences	6

PUBLICATIONS IN INTERNATIONAL JOURNALS

1. V. Louli and D. Tassios, *Vapor-Liquid Equilibrium in Polymer-Solvent Systems with a Cubic Equation of State*, Fluid Phase Equilibria, 168 (2000) 165.
2. I. Papamichail, V. Louli and K. Magoulas, *Supercritical Fluid Extraction of Celery Seed Oil*, J. Supercrit. Fluids, 18 (2000) 213.
3. Ch. Boukouvalas, V. Louli and K. Magoulas, *Bench-scale Application of Supercritical Fluid Extraction for the Removal of Phenol from Aqueous Solution*, Separ. Sci. Technol., 36 (2001) 2279.
4. V. Louli, G. Folas, E. Voutsas and K. Magoulas, *Extraction of Parsley Seed Oil by Supercritical CO₂*, J. Supercrit. Fluids, 30 (2004) 163.
5. V. Louli, N. Ragoussis and K. Magoulas, *Recovery of Phenolic Antioxidants from Wine Industry By-Products*, Bioresource Technology, 92 (2004) 201.
6. C. Perakis, V. Louli, K. Magoulas, *Supercritical Fluid Extraction of Black Pepper Oil*, Journal of Food Engineering, 71 (2005) 386.
7. E. Voutsas, V. Louli, C. Boukouvalas, K. Magoulas, D. Tassios, *Thermodynamic Property Calculations with the Universal Mixing Rule for EoS/G^E Models: Results with the Peng-Robinson EoS and a UNIFAC Model*, Fluid Phase Equilibria, 241 (2006) 216.
8. V. Louli, E. Voutsas, C. Boukouvalas, K. Magoulas, D. Tassios, *Application of the UMR-PRU Model to Multicomponent Systems: Prediction of the Phase Behavior of Synthetic Natural Gas and Oil Systems*, Fluid Phase Equilibria, 261 (2007) 351.
9. C. Perakis, V. Louli, E. Voutsas, K. Magoulas, *Supercritical CO₂ Extraction of Dittany Oil: Experiments and Modelling*, J. Supercrit. Fluids, 55 (2010) 573-578.
10. G.D. Pappa, V. Louli, K. Dedousi, E.C. Voutsas, *Phase equilibria of mixtures containing CO₂ and organic acids using the UMR-PRU model*, J. Supercritical Fluids, 58 (2011) 321-329.

CONTRIBUTIONS IN BOOKS

1. V. Louli, Ch. Boukouvalas and K. Magoulas, *Extractive Applications in Agro-Food Sector*, in: State of the Art Book on Supercritical Fluids, AINIA (Eds.), 2004.

COMMUNICATIONS IN INTERNATIONAL CONFERENCES

1. V. Louli and D. Tassios, *Correlation of Vapor-Liquid Equilibrium in Polymer Solutions with a Cubic Equation of State*, 17th European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
2. Ch. Boukouvalas, V. Louli and K. Magoulas, *Removal of Phenol from Aqueous Solutions with Supercritical Fluid Extraction*, 17th European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
3. G. Folas, I. Papamichail, V. Louli, Ch. Boukouvalas and K. Magoulas, *Supercritical CO₂ Extraction of Celery and Parsley Seed Oil*, 17th European Seminar on Applied Thermodynamics, Vilamoura, Portugal, May 13-16, 1999.
4. E. C. Voutsas, V. Louli, Ch. Boukouvalas, K. Magoulas and D. Tassios, *Applications of Supercritical Fluids, Chemical Reactions under Extreme Conditions*, CERC-3 Workshop, Arcachon, France, 2000.
5. V. Louli, G. Folas, S. Stamataki and K. Magoulas, *Application of SCFE to the Recovery of Antioxidants from Red Grape Marc*, 18th European Seminar on Applied Thermodynamics, Kutna Hora, Czech Republic, June 8-11, 2000.
6. Ch. Boukouvalas, V. Louli and K. Magoulas, *The application of the Supercritical Fluid Extraction in the removal of pollutants from wastewater: the case of phenol*, 7th Conference on Environmental Science & Technology, Syros, Greece, 3-6 September, 2001.
7. V. Louli and K. Magoulas, *Solubility of Antioxidants in Supercritical Carbon Dioxide*, 19th European Seminar on Applied Thermodynamics, Santorini, Greece, 6-10 September, 2002.
8. C. Perakis, V. Louli and K. Magoulas, *Supercritical Fluid Extraction of Black Pepper Oil*, 20th European Symposium on Applied Thermodynamics, Lahnstein, Germany, 8-12 October, 2003.
9. C. Perakis, V. Louli, E. Voutsas, K. Magoulas and D. Tassios, *Modeling of the Water/ Ethanol/ Carbon Dioxide System with the Cubic Plus Association (CPA) Equation of State*, 21st European Symposium on Applied Thermodynamics, Jurata, Poland, 1-5 June, 2005.
10. E. Voutsas, N. Botis, V. Louli, C. Boukouvalas, G. Pappa, K. Magoulas, D. Tassios, *Thermodynamic property calculations with the universal mixing rule for EoS/G^E models*, 22nd European Symposium on Applied Thermodynamics, Elsinore, Denmark, 28 June-1 July 2006.
11. N. Botis, V. Louli, E. Voutsas, G. Caputo,, D. Tassios, *Thermodynamic Modelling of the Polystyrene+Cyclohexane+Carbon Dioxide System using the Universal Mixing rule for EoS/G^E Models and the SANCHEZ-LACOMBE EoS*, 11th International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
12. V. Louli, Ch. Boukouvalas, E. Voutsas, S. Stamataki, K. Magoulas, D. Tassios, *Application of the UMR-PRU Model to Multicomponent Systems: Prediction of the Phase Behavior of Synthetic Natural Gas and Oil Systems*, 11th International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
13. I. Lemonis, V. Louli, E. Voutsas, V. Oreopoulou, K. Magoulas, *Supercritical CO₂ Extraction of Dittany (Origanum Dictamnus) Oil: Study of the Process Parameters and the Extracts' Antioxidant Activity*, 11th International Conference on Properties and Phase Equilibria for Product and Process Design, Hersonissos, Crete, Greece, May 20 - 25, 2007.
14. N. Botis, Y. Fappas, E. Voutsas, V. Louli, G. Caputo, D. Tassios, *Thermodynamic Modelling of the Polystyrene + Cyclohexane + Carbon dioxide system using the Universal Mixing Rule for EoS/G^E Models and the Sanchez -Lacombe EoS*, 23rd European Seminar on Applied Thermodynamics, Cannes, France, May 29 – June 1, 2008.
15. V. Louli, E. Dedoussi, S. Stamataki, K. Magoulas, E. Voutsas, *Thermodynamic Modeling of Phase Equilibrium of CO₂-Organic Acid Systems Using the UMR-PRU Model*, 23rd European Seminar on Applied Thermodynamics, Cannes, France, May 29 – June 1, 2008.
16. E. Skouras, E. Voutsas, V. Louli, E. Solbraa, *Hydrocarbon Dew Point of Synthetic and Real Natural Gas Mixtures with the UMR-PRU Model*, 24th European Symposium on Applied Thermodynamics, Santiago de Compostela, Spain, June 27-July 1, 2009.
17. V. Louli, Ch. Perakis, P. Katsis, E. Voutsas, and K. Magoulas, *Extraction of Dittany Oil with Supercritical CO₂*, 24th European Symposium on Applied Thermodynamics, Santiago de Compostela, Spain, June 27-July 1, 2009.
18. E. Panteli, V. Louli, E. Voutsas, and H. Stamatis, *Thermodynamic Study of Solid-Liquid Equilibrium in Mixtures Containing Ionic Liquids*, Thermodynamics 2009, September 23-25, London, UK, 2009.

19. 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.
20. G. Pappa, V. Louli, S. Stamataki, K. Magoulas, E. Voutsas, *Thermodynamic Modeling of the Phase Equilibrium of CO₂ – Organic Acid Systems with the UMR-PRU Model*, 25th European Symposium on Applied Thermodynamics, Saint Petersburg, Russia, June 24-27, 2011.

COMMUNICATIONS IN GREEK CONFERENCES

1. V. Louli, G. Folas, I. Papamichail, Ch. Boukouvalas and K. Magoulas, *Extraction of Essential Oils from Celery and Parsley Seeds with Supercritical CO₂*, 2nd National Scientific Conference of Chemical Engineering, Thessaloniki, Greece, 27-29 May, 1999.
2. V. Louli, M. Chrysaphis, and M. Magoulas, *Recovery of Antioxidants from Pomace using Supercritical CO₂*, 3rd National Scientific Conference of Chemical Engineering, Athens, Greece, 31 May- 2 June, 2001.
3. V. Louli, C. Perakis, Ch. Boukouvalas, E. Voutsas and K. Magoulas, *Applications of Supercritical Fluid Extraction in the of Natural Products*, 4th National Scientific Conference of Chemical Engineer, Patra, Greece, 29-31 May, 2003.
4. N.. Botis, V. Louli, E. Voutsas, K. Magoulas, G. Caputo, *Applications of Supercritical Fluids in Nanoparticles Production Process. The Role of Thermodynamics in the Design of the Process and Modeling of the Ternary System, CO₂- Polystyrene- Cyclohexane*, 6th National Scientific Conference of Chemical Engineer, Athens, Greece, 31 May- 2 June, 2007.
5. H. Lemonis, D. Antipa, V. Louli, E. Voutsas, K. Magoulas, G. Kouri, D. Tsimogiannis, V. Oreopoulou, *Recovery of Antioxidants from Dittany (Origanum Dictamnus)*, 6th National Scientific Conference of Chemical Engineer, Athens, Greece, 31 May- 2 June, 2007.
6. E. Panteli, V. Louli, E. Voutsas, H. Stamatis, *Thermodynamic Study of the Phase Equilibrium in Mixtures containing Ionic Liquids*, 7th National Scientific Conference of Chemical Engineer, Patra, Greece, 3-5 June, 2009.