EQUIFASE 2009 Program

Time	Saturday, 17th	Sunday, 18th	Monday, 19th	Tuesday, 20th	Wednesday, 21st	Time
08:30 - 10:15		Molecular Simulation	Green Engineering & Sustainability + Alternative/Sustainable Energy	Fundamentals of Thermodynamics	New Products/Materials Properties & Applications	08:30 - 10:15
10:15 - 10:35			Coffee Break		Coffee Break	10:15 - 10:35
10:35 - 10:45		Coffee Break		Coffee Break		10:35 - 10:45
10:45 - 11:05			Green Engineering & Sustainability + Alternative/Sustainable Energy		Fundamentals of Thermodynamics	10:45 - 11:05
11:05 - 11:30		Biomolecules & Biotechnology		Product & Process Design		11:05 - 11:30
11:30 - 11:45						11:30 - 11:45
11:45 - 12:10					Closing lecture John O'Connell	11:45 - 12:10
12:10 - 12:30						12:10 - 12:30
12:30 - 12:45		Lunch	Social Programme	Lunch	Closing cerimony	12:30 - 12:45
12:45 - 14:00					Lunch	12:45 - 14:00

EQUIFASE 2009 Program

Time	Saturday, 17th	Sunday, 18th	Monday, 19th	Tuesday, 20th	Wednesday, 21st	Time
14:00 - 14:30	Registration	Fundamentals of Thermodynamics	Social Programme	Product & Process Design		14:00 - 14:30
14:30 - 15:15						14:30 - 15:15
15:15 - 15:25						15:15 - 15:25
15:25 - 16:15				Poster Award Presentations		15:25 - 16:15
16:15 - 18:15		Poster session I + Coffee break		Poster session II + Coffee break		16:15 - 18:15
17:30 - 18:00						17:30 - 18:00
18:00 - 18:15	Opening cerimony					18:00 - 18:15
18:15 - 19:00	Opening lecture Juan de Pablo	Product & Process Design	Biomolecules & Biotechnology	Fundamentals of Thermodynamics		18:15 - 19:00
19:30	Welcome reception					19:30
20:00		Dinner	Dinner			20:00
20:30				Galla Dinner + Poster Award		20:30

Time	Saturday, 17th
14:00 - 18:00	**Registration**
18:00 - 18:15	**Opening cerimony**
18:15 - 19:00	***Chairs Eugénia A. Macedo and Alberto Arce*** **Opening Lecture - J. de Pablo** **"*A Molecular View of Cryoprotectants, Lyoprotectants, and their Influence on Biomolecular Stability and Aggregation*"**
19:30	**Welcome reception**

Time	Sunday, 18th
8:30	**MOLECULAR SIMULATION** ***Chairs: Lourdes F. Vega and Jean-Pierre Simonin***
8:30 - 9:15	**Invited Lecture - I. G. Economou** **"*Prediction of Thermodynamic and Transport Properties of Complex Fluid Mixtures Based on Molecular Simulation*"**
9:15 - 9:35	**B. Rousseau** **"*Solubility of Gases in Semi-crystalline Polyethylene as Studied by Monte Carlo Simulations*"**
9:35 - 9:55	**A. Mejia** **" *Interfacial Properties of Asymmetric Binary Mixtures Containing n-alkanes*"**
9:55 - 10:15	**M. Jorge** ***"Molecular Simulation of the Intrinsic Structure and Dynamics of Liquid/Liquid Interfaces"***
10:15 - 10:35	**A. Ahmed** ***"Solid-liquid Coexistence and Triple Points of Lennard-Jones Family of Potentials"***
10:35 - 11:05	**Coffee Break**
11:05	**BIOMOLECULES & BIOTECHNOLOGY** ***Chairs: José Teixeira and Gerd Maurer***

Time	Sunday, 18th
11:05 - 11:50	**Invited Lecture - F. W. Tavares** ***"Ion-specific Thermodynamic Properties for Colloids and Proteins"***
11:50 - 12:10	**A. Palavra** ***"Supercritical Carbon Dioxide Extraction of Bioactive Compounds and Volatile Oils from Microalgae and Aromatic Plants"***
12:10- 12:30	**J. Walter** ***"Molecular Simulation Study of the Influence of Temperature and Solvent Composition on the Volume Change of Synthetic Hydrogels"***
12:30 - 14:00	**Lunch**
14:00	**FUNDAMENTALS OF THERMODYNAMICS** ***Chairs: Cláudio Olivera-Fuentes and José L. Legido***
14:00 - 14:45	**Invited Lecture - T. W. de Loos** ***"High-Pressure Muliphase Equilibria"***
14:45 - 15:05	**F. L. Figueira** ***"Prediction of the Thermodynamic Properties of (Water + Ammonia) using Cubic Equations of State with the SOF Cohesion Function"***
15:05 - 15:25	**M. R. Riazi** ***"Properties of Heavy Hydrocarbons and their Estimation Methods"***
15:25 - 15:55	**P. Arce** ***"Perturbed-Chain Statistical Associating Fluid Theory Modeling of Gas Solubilities in Diblock Copolymers"***
15:55 - 16:15	**N. Rahal** ***"Behavior of a Ternary System in a State of Demixtion"***
16:15 - 18:00	**POSTER SESSION + Coffee Break** ***Chairs: Lélio Q. Lobo and Olivier Baudouin***
18:15 - 19:00	***Invited Lecture - C. P. Nunes*** ***"Process Integration and Optimization"***
20:00	**Dinner**

Time	Monday, 19th
8:30	**GREEN ENGINEERING & SUSTAINABILITY + ALTERNATIVE/SUSTAINABLE ENERGY** **Chairs: Cor Peters and Esteban Brignole**
8:30 - 9:15	**Invited Lecture - J. C. de Hemptinne** **"Predictive Models and their Need in the Biofuel Industry"**
9:15 - 9:35	**C. Goutaudier** **"Aqueous Solubility, Salting-Out Effect and Molar Standard Gibbs Free Energy of Transfer of Metalaxyl Fungicide From Pure Water to Aqueous Salt Solution"**
9:35 - 9:55	**W. Afzal** **"Estimation of the Impact of Sulfur Species on Glycol Dehydration"**
9:55 - 10:15	**J. Prado** **"Comparative Study on Efficiency of Extraction and Separation Steps of Supercritical Fluid Extraction"**
10:15 - 10:45	**Coffee Break**
10:45	**GREEN ENGINEERING & SUSTAINABILITY + ALTERNATIVE/SUSTAINABLE ENERGY** **Chairs: Joan Brennecke and Susana Bottini**
10:45 - 11:30	**Invited Lecture - L. P. Rebelo** **"Ionic Liquids – New Challenges"**
11:30 - 11:50	**C. Dariva** **"Joint Use of Ionic Liquids and Microwave Irradiation for Demulsification of Water-in-Crude Oil Emulsions"**
11:50 - 12:10	**J. Esperança** **"Sulphonate vs Sulphate Anion: How this Change Influences Liquid-liquid Equilibria of 1-alkyl-3-methylimidazolium Based Ionic Liquids with Halogenated Compounds?"**
12:10 - 12:30	**A. Grosso** **"Supercritical Fluid Extraction of the Volatile Oil of Cotton Lavender: Experiments and Modeling"**
12:30 - 18:00	**Social Programme (Excursion) - Lunch box included**

Time	Monday, 19th
18:15 - 19:00	**Chairs: Alberto Arce and Eugénia A. Macedo** **Invited Lecture - Juan Vera** **"On the Extraction of Bio-molecules from Aqueous Solutions"**
20:00	**Dinner**

Time	Tuesday, 20th
8:30	**FUNDAMENTALS OF THERMODYNAMICS** ***Chairs: Jochen Winkelmann and Martin Aznar***
8:30 - 9:15	**Invited Lecture - M. S. Zabaloy** ***"Equation of State Description of the Phase Equilibria of Asymmetric Systems"***
9:15 - 9:35	**G. Kontogeorgis** ***"The role of Monomer Fraction Data in Association Theories"***
9:35 - 9:55	**S. Kato** ***"Correlation of Smoothed Mutual Solubility Data Using the Temperature Dependency of Infinite Dilution Activity Coefficients"***
9:55 - 10:15	**K. Gasem** ***"Generalized SLD-PR Adsorption Model for Pure and Mixed Gases on Coals"***
10:15 - 10:35	**J. P. Simonin** ***"Effect of Stepwise Complex Formation in Electrolyte Solutions Described Within the Binding Mean Spherical Approximation."***
10:35 - 11:05	**Coffee Break**
11:05	**PRODUCT AND PROCESS DESIGN** ***Chairs: Marcelo Castier and Georgios Kontogeorgis***
11:05 - 11:50	**Invited Lecture - J. Coca** ***"Reactive Separation Processes Using Membranes"***

Time	Tuesday, 20th
11:50 - 12:10	**V. Gomis** ***"Heterogeneous Azeotropic Dehydration of Ethanol to Obtain a Cyclohexane-ethanol Mixture"***
12:10 - 12:30	**M. Renner** ***"Intensified and Environmentally Friendly Tanning of Animal Skin"***
12:30 - 14:00	**Lunch**
14:00	**PRODUCT AND PROCESS DESIGN** ***Chairs: Cláudio Dariva and Rubens Maciel Filho***
14:00 - 14:45	**Invited Lecture - A. E. Rodrigues** ***"Engineering Perfumes and Microcapsules"***
14:45 - 15:05	**A. Ferreira** ***"Vapor Pressure and Boiling Point Elevation of Eucaliptus Globulus Kraft Black Liquors"***
15:05 - 15:25	**E. A. Brignole** ***"Molecular Design of Solvents for 2nd Generation Biofuels Separation Processes"***
15:25 - 16:15	**Poster Award Presentations** ***Chairs: Eugénia A. Macedo and Jean-Charles de Hemptinne***
16:15 - 18:00	**POSTER SESSION + Coffee Break** ***Chairs: Andres Mejia and Ana Soto***
18:15 - 19:00	**Invited Lecture - A. Scurto** ***"Global Phase Behavior and Equilibria of Ionic Liquids and Compressed Gases for Applications"***
20:30	**Galla Dinner + Poster Award Announcement**

Time	Wednesday, 21st
8:30	**NEW PRODUCTS/MATERIALS - PROPERTIES & APPLICATIONS** ***Chairs: Dominique Richon and Edmundo G. Azevedo***
8:30 - 9:15	**Invited Lecture - N. von Solms** ***"Inhibition of Gas Hydrate Formation by Low-dosage, Environmentally Benign Inhibitors"***
9:15 - 9:35	**Viktor Ermatchkov** ***"Thermodynamics of Aqueous Solutions of N-isopropyl Acrylamide hydrogels"***
9:35 - 9:55	**M. Kroon** ***"Hydrogen Storage in Novel High Capacity Crystalline Molecular Materials"***
9:55 - 10:15	**F. Yañez** ***"Preparation of Molecularly Imprinted Therapeutic Commercial Contact Lenses Using Supercritical Carbon Dioxide Processes"***
10:15 - 10:45	**Coffee Break**
10:45	**FUNDAMENTALS OF THERMODYNAMICS** **Chairs: Manuel N. da Ponte and Jaime Wisniak**
10:45 - 11:05	**W. Kaminski** ***"Modelling of Sorption Equilibrium of Heavy Metal Ions on Foamed Chitosan"***
11:05 - 11:25	**M. J. Tardon** ***"On Isopicnyc and Barotropic Phase Transitions in Binary Mixtures"***
11:25 - 11:45	**L. F. Vega** ***"Capturing the Solubility Minima of Hydrocarbons in Water by the soft-SAFT Equation of State"***
11:45 - 12:30	**Closing Lecture - John O'Connell** ***"Some Aspects of Protein Adsorption and Stability in Hydrophobic Chromatography"***
12:30 - 12:45	**Closing Cerimony**
12:45	**Lunch**

POSTER SESSION I

Sunday, 16:15 - 18:00

Fundamentals of Thermodynamics

FT01	***Effects of Electrolyte Concentration on the Solubility of Toluene and Ethyl Acetate in Aqueous Solutions*** **Ana F.P. de Campos, Mauro L.N. de Oliveira, Moilton R. Franco Jr**
FT02	***The Solubility of Some Acids in Pure Solvents*** **Mauro L.N. de Oliveira, Moilton R. Franco Jr**
FT03	***Vapor Liquid Equilibrium for Binary System of Tetrahydrothiophene + 2,2,4-Trimethylpentane and Tetrahydrothiophene + 2,4,4-Trimethyl-1-Pentene at 358.15 K and 368.15 K*** **Erlin Sapei, Petri Uusi-Kyyny, Kari I. Keskinen, Juha-Pekka Pokki, Ville Alopaeus**
FT04	**Computer-Based Modeling and Simulation for the Catalase Reaction Mechanism** **Inara T. Nagieva, Tofik M. Nagiev**
FT05	***High-Pressure Solubility Modeling of Blowing Agents in LDPE using Non-cubic EOS*** **Pedro F. Arce, Martín Aznar**
FT06	***Simple Modification of van der Waals Equation of State Leading to the Correct Coexistence Densities*** **Francisco L.R. Hernández, Ángel M. Díaz**
FT07	***New Two-Reference-Fluids Model for the Estimation of the Vaporization Enthalpy*** **Isidro Cachadiña, Ángel M. Díaz**
FT08	***Vaporization Enthalpy of Pure Refrigerants. Comparative Study of Very Recent Correlation Equations*** **Ángel M. Díaz, Maria I. Parra, Francisco L. Román, Kyoung K. Park**
FT09	***Hydrate Formation from Vapour Phase: Experimental Measurement and Modeling by using an Association Equation of State*** **Ziad Youssef, Pascal Mougin, Alain Barreau, Jacques Jose, Ilham Mokbel**
FT10	***Study of the Temperature Influence on Liquid-Liquid Equilibria of System 2-Butanone + 2-Butanol + Water*** **Javier de la Torre, Amparo Cháfer, Nelson F. Martínez, Estela Lladosa**

POSTER SESSION I

Sunday, 16:15 - 18:00

FT11	***Comparison between Neural Network and PC-SAFT and Peng-Robinson EoS Modeling of High-Pressure Vapor-Liquid Equilibrium of Three {Nitrogen - n-Alkane} Binaries*** **Cherif Si-Moussa, Salah Hanini, Ratiba Derriche, Tariq Omari**
FT12	***Estimation of Compositions of Distillation Products using Neural Networks: Application of Levenberg-Marquardt Algorithm*** **Leandro O. Werle, Joel G. Teleken, Cintia Marangoni, Cláudia Sayer, Ricardo A.F. Machado**
FT13	***LLE and LVE for Binary Systems Containing Water with an Alkane or Aromatic Hydrocarbon using Polar GC-PC-SAFT*** **Dong Nguyenhuynh, Jean-Charles De Hemptinne, Rafael Lugo, Jean-Philippe Passarello, Pascal Tobaly**
FT14	***Molar Volume Equation for Carbon Dioxide + Solvent Mixtures at High Pressures*** **Masahiro Kato, Kensuke Ohashi, Atsushi Sato, Masaki Kokubo, Daisuke Kodama**
FT15	***Modeling of the Three-Phase Equilibrium in Systems of the Type Water + Nonionic Surfactant + Alkane*** **Christina Browarzik, Dieter Browarzik, Jochen Winkelmann**
FT16	***Calculations of Surface Tension and Viscosity using Equation of State for Square-Well Chain Fluid with Variable Interaction Range*** **Jinlong Li, Changchun He, Jun Ma, Changjun Peng, Honglai Liu**
FT17	***Permittivity and Density of the Systems (Diglyme or Tetraglyme + Heptane) at Several Temperatures*** **César F. Riadigos, Ruth Iglesias, Miguel A. Rivas, Teresa P. Iglesias**
FT18	***Isobaric Vapour-Liquid Equilibria for Binary Systems of [C4mim] [NTf2] and [C8mim] [NTf2] with Acetates at 101.32 kPa*** **Alfonsina E. Andreatta, Alberto Arce, Alberto Arce Jr., Eva Rodil, Ana Soto**
FT19	***Modeling Phase Equilibria for Systems with Vegetable Oils*** **Beatriz A. Mandagarán, Enrique A. Campanella**
FT20	**Excess Enthalpies of Binary and Ternary Mixtures Containing Dibutyl ether (DBE), 1-Butanol and Cyclohexane at 313.15 K** **Fatima Alaoui, Fernando Aguilar, José J. Segovia, Miguel A.Villamañán , Eduardo A. Montero**
FT21	***Evaluation of Prediction Methods for Critical Properties and Molecular Weight of Hydrocarbons and Petroleum Fractions*** **Luiz G. Lopreato, Thiago B. Sicchieri, Marco A. Farah, Márcio Paredes, Krishnaswamy Rajagopal**

POSTER SESSION I

Sunday, 16:15 - 18:00

FT22	***Temperature Dependence of Molecular Parameters in Equations of State*** **Hector Bastida, Claudio G. Olivera-Fuentes, Jurgen Vargas**
FT23	***Adsorption Thermodynamics of Metal Ions on Foamed Chitosan*** **Wladyslaw L. Kaminski, Elwira T. Tomczak, Urszula Wilicka**
FT24	***Determination of Styrene-TBC and Styrene-Water Equilibrium Data for the Purification of Monomers*** **Gabriel Ovejero, Maria D. Romero, Ismael Díaz, Eduardo Díez**
FT25	***Correlation of Isobaric Ternary Vapor-Liquid Equilibrium Data by the Extended GE Equations*** **Elena Graczová, Pavol Steltenpohl, Matúš Chlebovec**
FT26	***Determination of Solubility Parameters of Styrene-Butadiene-Styrene Triblock Copolymers by Means of Intrinsic Viscosity*** **Gabriel Ovejero, Maria D. Romero, Eduardo Díez, Ismael Díaz**
FT27	***Liquid-Liquid Equilibrium Data of Limonene + Octanal + Solvent Systems*** **Maria D. Romero, Eduardo Díez, Pilar Velasco, Ismael Díaz, José M. Gómez**
FT28	***Solid-Liquid Equilibrium in Crude Oils: Wax Deposition Study to Solve Flow Assurance Problems*** **Baudilio Coto, Carmen Martos, Juan J. Espada, Maria D. Robustillo, Jose L. Peña**
FT29	***Isobaric Vapor-Liquid-Liquid Equilibrium and Vapor-Liquid Equilibrium for the Quaternary System Water - Ethanol - Cyclohexane - Isooctane at 101.3 kPa*** **Ana Pequenín, Juan C. Asensi, Nereida Sánchez, Vicente Gomis**
FT30	***Analitical Determination of Distillation Boundaries for Ternary Azeotropic Systems*** **Antonio Marcilla, Juan A. Reyes-Labarta, Raul Velasco, María D. Serrano, María M. Olaya**
FT31	***Excess Molar Enthalpies of Mixtures Containing 2-Methoxy-2-Methylpropane, Ethanol, Nonane*** **Marta M. Mato, Monica Illobre, Pedro V. Verdes, Jose L. Legido, Inmaculada P. Andrade**
FT32	***Robust Program for Simultaneous Correlation of LLSE of Ternary Systems*** **Antonio Marcilla, María M. Olaya, María D. Serrano, Juan A. Reyes-Labarta**

POSTER SESSION I

Sunday, 16:15 - 18:00

FT33	***Explicit Equation to Calculate the Liquid-Vapour Equilibrium for Ternary Azeotropic and Non Azeotropic Systems*** **Antonio Marcilla, Juan A. Reyes-Labarta, Raul Velasco, María D. Serrano, María M. Olaya**
FT34	***Prediction of Isobaric Vapor-Liquid Equilibrium Data of Quaternary Systems*** **Elena Graczová, Pavol Steltenpohl, Matúš Chlebovec**
FT35	***PVT Property and Surface Tension Measurements for Ethanol from 278.15 to 353.15 K and up to 35 MPa*** **Filipe M.M. Gonçalves, Ana R. Trindade, Abel G.M. Ferreira, Isabel M.A. Fonseca**
FT36	***Prediction of Liquid-Liquid Equilibria in Water + Hydrocarbon Mixtures with Group-Contribution Models: A Critical Evaluation and Improvements*** **Pawel Oracz, Marian Góral**
FT37	***Kinetics of Asphaltene Aggregation in Aromatic Solvents Through Light Scattering Measurements*** **Florencia W.R. Rivarola, Rhutesh Shah, Lilian C. Medina, Maria R.W. Maciel, David A. Weitz**
FT38	***Experimental Measurement and Correlation of Solubility of Gamma-Oryzanol in Different Organic Solvents*** **Maitê S. Cuevas, Christianne E.C. Rodrigues, Mariana C. Costa, Antonio J.A. Meirelles**
FT39	***High Pressure Phase Equilibria of Squalene + Carbon dioxide: Experimental Measurement and Thermodynamic Modeling*** **Elvis J. Hernández, Francisco J. Señoráns, Guillermo Reglero, Tiziana Fornari**
Molecular Simulation	
MS1	***Transferable Force Field for Alcohols and Polyalcohols*** **Nicolas Ferrando, Véronique Lachet, Jean-Marie Teuler, Anne Boutin**
MS2	***Molecular Simulation of Swelling Behaviors of Coal Molecules*** **Toshimasa Takanohashi**
MS3	***Modeling Specific Ion Effects in Solutions of Biomacromolecules and Classical Ionic Surfactants*** **Sofia V. Koroleva, Alexey I. Victorov**

POSTER SESSION I Sunday, 16:15 - 18:00	
MS4	***Excess Thermodynamic Properties of Mixtures Involving Xenon and Light Alkanes: A Study of their Temperature Dependence by Computer Simulation*** **Luís F.G. Martins, Alfredo P. P. Carvalho, João P.P. Ramalho, Eduardo J.M. Filipe**
MS5	***Molecular Simulation of Absolute Hydration Free Energies of Polar Compounds*** **Nuno M. Garrido, António J. Queimada, Miguel Jorge,Ioannis G. Economou, Eugénia A. Macedo**
MS6	***Predicting the Hydration Free Energy of Psychotropic Drugs from Molecular Simulation*** **Nuno M. Garrido, António J. Queimada, Miguel Jorge, Ioannis G. Economou, Eugénia A. Macedo**
Product & Process Design	
PPD1	***Use Simulis® Thermodynamics to Fill the Gap in UNIFAC Matrices*** **Olivier Baudouin, Stéphane Déchelotte, Alain Vacher, Abdelatif Baba-Ahmed**
PPD2	***CFD Simulation of Multiphase Flow in a Sieve Tray of a Distillation Column*** **Joel G. Teleken, Leandro O. Werle, Cintia Marangoni, Marintho B. Quadri, Ricardo A.F. Machado**
PPD3	***Ionic Liquid [C6mmpy][Ntf2] as Solvent for Extraction of Sulfur and Nitrogen-Containing Compounds from Fuels*** **Luisa Alonso, Alberto Arce, Maria Francisco, Ana Soto**
PPD4	***A Semicontinuous Thermodynamic Model for Prediction of Asphaltene Precipitation*** **Ali Eslamimanesh, Alireza Shariati**
PPD5	***Effect of Water Salinity on Water Activity in Methane Hydrate Formation in Porous Media*** **Alireza Pesaran and Alireza Shariati**
New Products/materials - Properties & Applications	
NPA1	***Phase Equilibria of Biopolymer and Supercritical Fluids*** **Denise S. Conti, Lúcio Cardozo-Filho, Sérgio H. Pezzin, Luiz A.F. Coelho**

POSTER SESSION I Sunday, 16:15 - 18:00	
NPA2	*Metal Modified Mesoporous Material MCM-41 and Its Application in CO2 Capture from Flue Gas* Jun Hu, Changyong Jing, Huiling Zhao, Hongpei Cai, Honglai Liu
NPA3	*Thermophysical Caharaterization of Peloids from Termas de Rio Hondo (Argentina) for Therapeutics Uses* José L. Legido, María L. Mourelle, Carlos Medina, Carmen P. Gomez, Paloma Navia, Luis Romani
NPA4	*Supercritical Carbon Dioxide Hyssop Extraction* Vladan Micic, Milovan Jotanovic, Zika Lepojevic, Goran Tadic, Branko Pejovic
NPA5	*Polypropylene Membranes Modified by Acetone Aldol Condensation Products as Separators in Silver-Zinc Cells* Bo?ena Rydzy?ska, Aleksander Ciszewski
NPA6	*Phase Behavior and Thermodynamics of Clathrate Hydrate Systems of Carbon Dioxide in Presence of Tetrahydrofuran and Electrolytes* Khalik M. Sabil, Geert-Jan Witkamp, Cor J. Peters
Green Engineering & Sustainability + Alternative/Sustainable Energy	
GAS01	*Liquid-Liquid Equilibrium of Ternary Systems 1-Octyl-3-methylimidazolium Hexafluorophosphate + Aromatic + Aliphatic* Raquel M. Maduro, Martín Aznar
GAS02	*Modeling of High-Pressure Vapor-Liquid Equilibrium in Ionic Liquids + Gas Systems using the PRSV Equation of State* Pedro F. Arce, Pedro A. Robles, Teófilo A. Graber, Martín Aznar
GAS03	*High-Pressure Phase Behavior of CO2/Ionic Liquid/Dianix Red 60 System* Helen R. Mazzer, André Zuber, Vladimir F. Cabral, Adley F. Rubira, Washington F. Santos, Cláudio Dariva, Octávio A.C. Antunes, Lúcio Cardozo-Filho
GAS04	*Phase Equilibria in n-Dodecane + Dibenzothiophene + Ionic Liquid Systems - A Study of Extractive Desulfurization* Leonardo H. Oliveira, Martín Aznar
GAS05	*Ionic liquid Effect on the Solubility of Carbon Dioxide and Methane in Glycols at Different Temperatures and Pressures* Alessandro C. Galvão, Artur Z. Francesconi

POSTER SESSION I

Sunday, 16:15 - 18:00

GAS06	***Study of the Behaviour of the Azeotropic Mixture Ethanol-Water with Different Ionic Liquids*** **Elena Gómez, Noelia Calvar, Begoña González, Angeles Domínguez, Eugénia A. Macedo**
GAS07	***Benzene Separation from Hexane and Heptane using 1-Ethyl-3-Methyl Pyridinium Ethylsulfate and 1-Ethyl Pyridinium Ethylsulfate Ionic Liquids*** **Emilio J. González, Irene Domínguez, Elena Gómez, Angeles Domínguez, Eugénia A. Macedo**
GAS08	***Liquid-Liquid Equilibria for Ternary Systems 1-Ethyl-3-Methylpyridinium Ethylsulfate + Aromatics + Cyclohexane*** **Irene Domínguez, Emilio J. González, Begoña González, José Canosa**
GAS09	***Essential Oil Terpenless by Solvent Extraction using Ionic Liquid 1-Ethyl-3-Methylimidazolium 2-(2-methoxyethoxy) Ethylsulphate*** **Alberto Arce, Maria Francisco, Sara Lago, Borja Rodríguez, Ana Soto**
GAS10	***Desulphurisation of Gasolines by Solvent Extraction with the Ionic Liquid 1-Ethyl-3-Methylimidazolium Bis{(trifluoromethyl)sulfonyl}--amide: A Liquid-Liquid Equilibrium and Interfacial Tension Study*** **Alberto Arce, Maria Francisco, Hector Rodríguez, Ana Soto**
GAS11	**Decontamination of PAHs Polluted Soil by using a Clean Agent: the Electric Current** **Teresa Alcántara, Jose Gómez, Marta Pazos, Angeles Sanromán**
GAS12	***Optimization of Bioethanol Fermentation Process Coupled with a Vacuum Flash Evaporator*** **Tassia L. Junqueira, Marina O.S. Dias, Carlos E.V. Rossell, Rubens M. Filho, Maria R.W. Maciel, Daniel P. Atala**
GAS13	***Simulation of Distillation Process in Bioethanol Production using Barros & Wolf Efficiency Correlation*** **Tassia L. Junqueira, Rubens M. Filho, Maria R.W. Maciel**
GAS14	***Linseed Oil Obtained with Supercritical Fluid Extraction: Modeling of the Overall Extraction Curves*** **Elisângela L. Galvão, Livia M. Lazzari, Julian Martínez, Elisa M.B.D. Sousa**
GAS15	***Synthesis and Physical Properties of New Protic Ionic Liquids*** **Cristina González, Miguel Iglesias, Esther Marijuan**
GAS16	***Solvent Swelling Thermodynamics of Kukersite and Dictyonema Kerogens*** **Jelena Hruljova, Natalja Savest, Kristel Kilk, Vahur Oja**

POSTER SESSION I Sunday, 16:15 - 18:00	
GAS17	*Measuring Solubilities of Carbonyl Sulfide Containing Gaseous Mixtures in Glycol Aqueous Solutions Using a Static Analytic Technique with Two Micro Samplers* Waheed Afzal, Amir H Mohammadi, Dominique Richon
GAS18	*Biodiesel Production by Transesterification of Borraje Oil with Supercritical Methanol: Effects of the Operation Conditions* Lourdes Casas, Juan R. Portela, Casimiro Mantell, Jezabel Sánchez, Miguel Rodríguez, Enrique M. de la Ossa
GAS19	*What is the Fraction of Fossil CO2 in the Atmosphere?* Luciano Lepori, Gian C. Bussolino, Enrico Matteoli, Andrea Spanedda
GAS20	*Phase Equilibria Modeling of Biodiesel Related Mixtures using the GCA-EoS Model* Alfonsina E. Andreatta, Rafael Lugo, Jean-Charles de Hemptinne, Esteban A. Brignole, Susana B. Bottini
GAS21	*Hydrogen Solubility in Water and Organic Oxygenated Solvents Modeling with the GCA-EoS* Selva Pereda, Rafael Lugo, Jean-Charles de Hemptinne, Esteban A. Brignole
GAS22	*A-UNIFAC Modelling of Binary and Multicomponent Phase Equilibria of Fatty Esters+Water+Methanol+Glycerol* Nuno M. Garrido, Olga Ferreira, Rafael Lugo, Jean-Charles de Hemptinne, Eugénia A. Macedo, Susana B. Bottini
GAS23	*Solvent-Free Enzymatic Synthesis of Decyl Acetate: The "Cherry on Top"?* Manuela V. Oliveira, Lucília S. Ribeiro, Sílvia F. Rebocho, Adriano S. Ribeiro, Eugénia A. Macedo, José M. Loureiro
Biomolecules & Biotechnology	
BB1	*Extraction of Spilanthol from Spilanthes Acmella Var Oleraceae with Supercritical CO2* Vanessa M.S. Cavalcanti, Martín Aznar, Sílvio A.B.V. de Melo, Frederico G. Cruz
BB2	*Monitoring of Dynamic Protein Binding on the Surface of (magneto)Liposomes* Stefaan J.H. Soenen, Nele Nuytten, Tine Ysenbaert, Lien Defour, Jesse Trekker, Marcel De Cuyper
BB3	*Thermodynamics of Oil Extraction from Soybean using Ethanol as Solvent* Fernanda N. Abreu, Keila K. Aracava, Christianne E.C. Rodrigues

POSTER SESSION I Sunday, 16:15 - 18:00	
BB4	*Thermophilic Microorganisms from North Western Spain Hot-springs: Application to Dye Decolourization* Francisco J. Deive, Angeles Domínguez, T. Barrio, Maria A. Longo, Angeles Sanromán
BB5	*Protein Partitioning in PEG-Amino Acid Conjugate Polymer/Salt Aqueous Two-Phase Systems* Luísa A. Ferreira, Sara C. Silvério, José A. Martins, João C. Marcos, Eugénia A. Macedo, José A. Teixeira
BB6	*Extraction of trans-Lycopene from Tomato Industrial By-Products using Supercritical Fluids* Beatriz P. Nobre, António F. Palavra, Rui L. Mendes
BB7	*LLE for (Water + Ionic liquid) Binary Systems using [Cxmim][BF4] (x = 6, 8 and 10) Ionic Liquids* Filipa M. Maia, Oscar Rodríguez, Eugénia A. Macedo
BB8	*Temperature and Solvent Effects in the Solubility of Some Drugs: Experimental and Modeling* Fátima L. Mota, António J. Queimada, Simão P. Pinho, Eugénia A. Macedo
BB9	*The Collander Equation in Polymer-Salt ATPS* Sara C. Silvério, Oscar Rodriguez, José A. Teixeira, Eugénia A. Macedo
Education	
EDU1	*Java: An Important Tool to Learning Thermodynamics* Abel G.M. Ferreira
EDU2	*A Reexamination of Le Chatelier's Principle* Corey M. Colina, Claudio G. Olivera-Fuentes
EDU3	*XSEOS: An Educational Software for Thermodynamics - Latest Developments and Future Perspectives* Marcelo Castier, Mohamed M. Amer
EDU4	*Thermodynamic Equilibrium Diagrams Made Easy in Command Driven Computer Environments* Francisco A.S. Freitas

POSTER SESSION II

Tuesday, 16:15 - 18:00

Fundamentals of Thermodynamics

FT01	***Local Composition in Ternary Mixtures of Organic Compounds*** **Enrico Matteoli, Luciano Lepori**
FT02	***Experimental Study of Phase and Chemical Equilibrium in the System with n-Propyl Acetate Synthesis Reaction at Various Temperatures*** **Maria Toikka**
FT03	***Solubility of Hydrocarbon in Alkanolamine Aqueous Solution*** **Francisco A. Sanchez, Selva Pereda, Amir H. Mohammadi, Dominique Richon, Esteban A. Brignole**
FT04	***Thermodynamic Caracterization of New Generation Fuels with Renewable Components: Isothermal VLE of Ethanol and Hydrocarbons*** **Rosa M. Villamañán, M.C. Martín, César R. Chamorro, Miguel A. Villamañán, José J. Segovia**
FT05	***Vapor-Liquid Equilibria for the Binary Systems Cyclohexane + Morpholine and Cyclohexene + Morpholine*** **Beatriz Marrufo, Margarita Sanchotello, Sonia Loras**
FT06	***The "bridge effect" in Methane Clathrate Nucleation*** **Juan G. Beltrán, Phillip Servio**
FT07	***A New High-Pressure, Low Temperature Apparatus for the Study of Phase Equilibria through a Synthetic Method*** **José M.S. Fonseca, Nicolas von Solms**
FT08	***Separation of Acetic Acid from the Aqueous Solution by Means of Solvent Extraction*** **Aleksandra Sander, Jasna P. Kardum, Tomislav Penovic**
FT09	***Liquid-Liquid Equilibrium of the FCC Gasoline-Sulfur-Sulfolane System*** **Tamara Adžamic, Aleksandra Sander, Katica Sertic-Bionda, Marko Rogošic**
FT10	***Transport Changes During Non-Equilibrium*** **Stefan Van Vaerenbergh, Naïm Rahal**

POSTER SESSION II Tuesday, 16:15 - 18:00	
FT11	***Cluster Fractions' Equilibrium in Gases*** **Boris Sedunov**
FT12	***Vapor-Liquid Equilibrium Calculations for Refrigerant Mixtures with the MTC-EoS*** **José P.L. Santos, Frederico W. Tavares, Marcelo Castier**
FT13	***Modeling the Octanol-Water Partition Coefficient: The Quantitative-Structure Property Relationship (QSPR) and Theory-Based QSPR Approaches*** **Krishna M. Yerramsetty, Brian J. Neely, Robert L. Robinson Jr., Khaled A. M. Gasem**
FT14	***Solid-Liquid Phase Diagram of Tetradecanol + Hexadecanol and Hexadecanol + Octadecanol*** **Natália D.D. Carareto, Mariana C. Costa, M.A. Krähenbühl, Antonio J.A. Meirelles**
FT15	***Determination of Reaction Equilibrium Constant for MTBE Synthesis Applying Molecular Modeling*** **Miria H.M. Reis, Lucienne L. Romanielo, Maria R.W. Maciel**
FT16	***Measurement of Cloud Points for the Systems Polybutadiene + Propane and Polybutadiene + Diethyl Ether at High Pressure*** **Juan M. Milanesio, Guillermo D.B. Mabe, Andrés E. Ciolino, Lidia M. Quinzani, Marcelo S. Zabaloy**
FT17	***Phase Equilibria of Water-in-Oil Emulsions*** **Fabrício L.M.C. Silva, Frederico W. Tavares, Márcio J.E.M. Cardoso**
FT18	***Effect of Temperature and Pressure on the Liquid Phase Mole Fraction of Carbon Dioxide and Methane Mixtures in Water, Near and Around Hydrate-Liquid-Vapor Equilibrium*** **Hallvard Bruusgaard, Juan G. Beltrán, Phillip Servio**
FT19	***Phase Equilibrium Modeling of Aqueous and Alcoholic Solutions of Carboxylic Acids*** **Marisa Garriga, Alicia Marchiaro, Selva Pereda, Susana B. Bottini**
FT20	***Modeling of pH using Modified UNIFAC Method*** **Guilherme J. Maximo, António J.A. Meirelles, Eduardo A.C. Batista**
FT21	***Liquid-Liquid Equilibrium for Systems Composed of Macauba (Acrocomia aculeata) Pulp Oil + Oleic Acid + Ethanol + Water at 298.15 K*** **César A.S. Silva, Guilherme Sanaiotti, Marcelo Lanza, Luis A. Follegatti-Romero, António J. A. Meirelles, Eduardo A. C. Batista**

POSTER SESSION II

Tuesday, 16:15 - 18:00

FT22	***TPT1 Approach for Estimation of Heavy HC Critical Properties from Light Solvent + Heavy HC Bubble Point Data*** **Caroline P.M. Morais, Rodrigo A. dos Reis, Márcio Paredes**
FT23	***Liquid-Liquid Equilibrium for Ternary Systems Containing Refined Soybean Oil, Ethyl Biodiesel, Anhydrous Ethanol, and Glycerol at 298.15 K and 313.15 K*** **Marcelo Lanza, Eduardo A.C. Batista, Ronei J. Poppi, António J.A. Meirelles**
FT24	***Liquid-Liquid Equilibrium for Systems Containing Rice Brain Oil + Anhydrous Ethanol + Hexane at 298.15 K and 313.15 K using NIR Spectroscopy*** **Irede Dalmolin, Wagner L. Priamo, Marcelo Lanza, António J.A. Meirelles, Eduardo A.C. Batista**
FT25	***Group Contribution Modeling Of Molecular Associacion in Alcohol+Water+Hydrocarbon Mixtures*** **Ticiana Soria, Selva Pereda, Gloria Foco, Susana B. Bottini**
FT26	***Application of the Tait Equation for Correlation of Viscosities of Binary Liquid Mixtures*** **Sabyasachi Sen, Abel G.M. Ferreira, Nirmala Deenadayalu**
FT27	***Determination of Phase Diagrams for Water + Nickel or Zinc + Cyanex Systems*** **Sara Galvão, Marcia Duarte, Alfredo Garnica**
FT28	***Topological Approach to Barotropic Phenomena in Asymmetric Mixtures*** **Christian R. Bidart, Mauricio E. Flores, Hugo L. Segura**
FT29	***Phase Equilibria and Thermodynamic Properties of {H2O-Amine} and {CO2-H2O-Amine} Systems*** **Karine Ballerat-Busserolles, Yohann Coulier, Laurence Rodier, Jean Y. Coxam**
FT30	***The Global Phase Diagram of van der Waals Binary Fluids Revisited*** **Héctor Quinteros, María J. Tardón, Guillermo Reyes, Andrés Mejía, Hugo Segura**
FT31	***Mechanical Binodal States: A New and Robust Approach for Calculating and Sistematizing Azeotropic Phenomena in Multicomponent Fluid Mixtures*** **Daniela Espinoza, Héctor Quinteros, Andrés Mejía, Hugo Segura**
FT32	***Aneotropic Behavior in Fluid Binary Mixtures*** **Marcela Cartes, Andrés Mejía, Hugo Segura**

POSTER SESSION II Tuesday, 16:15 - 18:00	
FT33	***New Theoretical Approach to Calculation of Charge Correlation Free Energy in Polyelectrolyte Solutions*** **Vladimir V. Palyulin, Igor I. Potemkin**
FT34	***Solubility of CF4 in Lower Alcohols*** **José M.M.V. Sousa, Abel G.M. Ferreira, Horácio C. Fachada, Isabel M.A. Fonseca**
FT35	***An Investigation of Hard-Sphere Equations of State and the Presentation of a New Carnahan-Starling Based Hard-Sphere Equation*** **A. Javidi Alesaadi, Sona Raeissi**
FT36	***Effect of the Liquid-Junction in the Measurements of Ion Activity Coefficients in Pure Sodium Chloride Solutions at 298.15 K*** **Estela Lladosa, Alberto Arce Jr, Grazyna Wilczek-Vera, Juan H. Vera**
FT37	***Miscibility of Imidazolium Based Ionic Liquids with Polyols*** **E. Dyoniziak, Anna Makowska, Agnieszka Siporska, M. Pekala, Jerzy Szydlowski**
Molecular Simulation	
MS1	***Transformations on the Poisson-Boltzmann Equation*** **Heloísa L. Sanches, Frederico W. Tavares**
MS2	***Investigations of the Activity Coefficient of Polar Fluids*** **Stanislaw Lamperski, R. Górniak**
MS3	***The Effect of Ions on the Size of the Water Associate*** **Stanislaw Lamperski, Monika P?uciennik, B. Kosicki**
Product & Process Design	
PPD1	***A Model for the Accidental Release of Fluid Mixtures from Vessels*** **Sulaiman al-Zuhair, Marcelo Castier**

POSTER SESSION II Tuesday, 16:15 - 18:00	
PPD2	*Influence of Efficiency Values on Composition Trajectories of Ideal and Nonideal Mixtures* Miria H.M. Reis, António A.C. Barros, Rubens M. Filho, Maria R.W. Maciel
PPD3	*Reactive Distillation for Phenol Separation: Characterization and Simulation Results* Miria H.M. Reis, Liege F.S. Mascolo, Adilson P. Afonso, Maria R.W. Maciel
PPD4	*Evaluation of Correlations for Properties of Diesel and Fuel Oil* Rejane G. Gama, Carlos H.O. Pereira, Jacques F. Dias, Alexandre R. Torres, Rodrigo A. Reis, Gustavo M. Platt, Márcio L. Paredes, Gilberto M. Xavier
New Products/materials - Properties & Applications	
NPA1	*Particle Formation of Ampicillin by Supercritical Antisolvent Precipitation at High Pressure Phase* Antonio Montes, Alvaro Tenorio, Maria D. Gordillo, Clara Pereyra, Enrique J.M. de la Ossa
NPA2	*Conductivity and Viscosity of Binary Mixtures of Ionic Liquids and Organic Solvents* Sabine Sarraute, Margarida C. Gomes, Pascale Husson, Agílio Pádua
NPA3	*Synthesis and Thermophysical Properties of New Protic Long-Chain Ionic Liquids with Oleate Anion* Victor H. Álvarez, Silvana Mattedi, Manuel Martin-Pastor, Martin Aznar, José M. Navaza, Miguel Iglesias
Green Engineering & Sustainability + Alternative/Sustainable Energy	
GAS01	*Continuous Production of Ethylic Biodiesel in Supercritical Medium using Propane as Cossolvent* Wilson Linhares, Vitor Delmondes, Montserrat Fortuny, Alexandre F. Santos, Lisiane S. Freitas, Silvia M. Egues, André L.D. Ramos, Cláudio Dariva
GAS02	*Volumetric Properties of Reacting Mixtures in Biodiesel Production with Supercritical Alcohols: Experimental Measurements and Correlation* Alexis Velez, Pablo E. Hegel, Susana Espinosa, Esteban A. Brignole
GAS03	*Densities and Surface Tensions of Binary Mixtures of Five EMIM-CnS Ionic Liquids with Water at 25.0 ºC* Esther R. Siso, Luisa Segade, Carlos Franjo, Oscar Cabeza

POSTER SESSION II

Tuesday, 16:15 - 18:00

GAS04	***Supercritical Water Oxidation of Isopropanol*** **Jezabel Sánchez-Oneto, José Abelleira, Daniel Roldán-Calbo, Belén García Jarana, Violeta Vadillo, Juan R. Portela, Enrique J. M. de la Ossa**
GAS05	***Hydrogen Production from LPG Steam Reforming: Thermodynamic Assessment*** **Tatiana V. Franco, Carla E. Hori, Adilson J. Assis, Lucienne L. Romanielo**
GAS06	***Biofuels-Temperature and Water Content Influence on Thermophysical Properties of Sugarcane Juice*** **Astolfi Zailer, Renato A.F. Cabral, Vania R.N. Telis, Javier Telis-Romero**
GAS07	***Biofuels-Rheological Properties of Sugarcane Juice*** **Astolfi Zailer, Renato A.F. Cabral, Vania R.N. Telis, Javier Telis-Romero**
GAS08	***An Innovative Technology Based on Non-Conventional Extractant Obtained from Coconut Oil: Application for Treatment of Wastewaters Produced in the Petroleum Industry*** **Ana K.C. Oliveira, Gustavo S. Medeiros, João B. A. Paulo, Elisa B. D. Sousa, Emilliany M. Batista**
GAS09	***Solubility Correlation of Three Disperse Anthraquinone Dyes in Supercritical Carbon Dioxide*** **José P. Coelho, Andreia F. Mendonça, António F. Palavra, Roumiana P. Stateva**
GAS10	***Biodiesel Properties from Six Raw Materials*** **Nívea L. da Silva, César B. Batistella, André L. Jardini, Maria R.W. Maciel, Rubens M. Filho**
GAS11	***Physical Properties of Commercial Biodiesel and their Blends*** **M.L. Iris, A. González, F. Cerdeira, E. Alvarez**
GAS12	***Activity Coefficients at Infinite Dilution of Betx and Paraffins in Pyridinium Derived ILs*** **Miguel A. López, Beatriz Orge**
GAS13	***Liquid-Liquid Equilibria of Quasi-Ideal Mixtures of Ionic Liquids with Common Organic Solvents*** **Ana B. Pereiro, Ana Rodriguez, José M.S.S. Esperança, José N.C. Lopes, Luís P.N. Rebelo**
GAS14	***Tara Seed Coats Extraction using CO2-EtOH-H2O High Pressure Homogeneous Solvent Mixtures*** **Inês J. Seabra, Mara E.M. Braga, Rute A. Oliveira, Patrícia B. Goyzueta, Hermínio C. de Sousa**

POSTER SESSION II Tuesday, 16:15 - 18:00	
GAS15	*Valorization of Juglans Regia L. Fruits through Fractioned Supercritical Fluid Extraction* Rute A. Oliveira, Inês J. Seabra, Mara E.M. Braga, H.C. de Sousa
GAS16	*Using Ionic Liquids for CO2 Separations* Brett Goodrich, Burcu Gurkan, Juan C. de la Fuente, Devan Kestal, Joan F. Brennecke
GAS17	*Modeling the Solubility of Carbon Dioxide in 1-Alkyl-3-Methylimidazolium Bis(trifluoromethylsulfonyl) Imide Ionic Liquids using the Wong-Sandler Mixing Rule* M. Yazdizadeh, F. Rahmani, Sona Raeissi, Ahmad Shariati
GAS18	*Characterization of Malaysian Biomass for Hydrogen Production via Gasification* S.S. Abdullah, Suzana Yusup, L. Ismail, M.T. Azizan, M.H.I. Hussein
GAS19	*Degradation and Kinetic Modelling of a Simulated Textile Effluent by Enzymatic Catalysis* Raquel O. Cristóvão, Ana P.M. Tavares, José M. Loureiro, Rui A.R. Boaventura, Eugénia A. Macedo
GAS20	*Kinetic Study of the Peroxidase Reaction in Ionic Liquids* Aristides P. Carneiro, Oscar Rodríguez, Ana P.M. Tavares, Eugénia A. Macedo
Biomolecules & Biotechnology	
BB1	*Autohydrolysis of Paulownia: Study Optimizing for Saccharides Production* Minerva A.M. Zamudio, Juan C. García, Francisco Lopez, Antonio Pérez, Javier Feria
BB2	*Phase Equilibria Modeling of Mixtures Containing Mono-, Di-, Tri-Glycerides, Alcohols and Carbon Dioxide* Tiziana Fornari, Elvis J. Hernández, Guillermo Reglero, Francisco J. Señoráns
BB3	*Solid-Liquid Phase Diagram of Tripalmitin + Tristearin and Triolein + Tripalmitin* Mariana C. Costa, Marlus P. Rolemberg, António J. A. Meirelles, Maria A. Krähenbühl
BB4	*Reuse of Free and Immobilized Lipases in Solvent Free Enzymatic Glycerolysis to Produce Mono and Diacilglycerols* Patrícia B.L. Fregolente, Gláucia M.F. Pinto, Maria R. W. Maciel, Rubens M. Filho

POSTER SESSION II Tuesday, 16:15 - 18:00	
BB5	***Liquid-Liquid Equilibria of Aqueous Two-Phase System Containing PEG400 + Sulfate Salts at Different Temperatures*** **João P. Martins, Fabíola C. Oliveira, Jane S.R. Coimbra, César A.S. Silva, Luis H.M. Silva, Maria C.H. Silva**
BB6	***Mutual Solubility for Systems Composed of Vegetable Oil + Ethanol + Water at Different Temperatures*** **César A.S. Silva, Guilherme Sanaiotti, Marcelo Lanza, Luis A. Follegatti-Romero, António J. A. Meirelles, Eduardo A. C. Batista**
BB7	***Polymer Characterization using an Acoustic Wave Sensor: Temperature-Dependent Behavior of HPMC*** **Marta I.S. Veríssimo, João A.B.P. Oliveira, Maria T.S.R. Gomes**
BB8	***Phase Equilibria of Cyclic, Straight Chain and Aromatic Dicarboxylic Acids*** **António J. Queimada, Nuno M. Garrido, Eugénia A. Macedo**
BB9	***Measurements and Modeling of the Solubility of Naturally Occurring Phenolics*** **António J. Queimada, Fátima L. Mota, Filipe J.N. Direito, Simão P. Pinho, Eugénia. A. Macedo**

POSTER AWARD Tuesday, 15:25 - 18:00 (short oral presentations + discussion)	
PA1	***Stability Analysis for Solid-Fluid Isopleths in Binary Asymmetric Mixtures*** **Sabrina B. Rodriguez-Reartes, Martín Cismondi, M.S. Zabaloy**
PA2	***Mutual Solubility for Systems Pseudobinaries Containing Vegetable Oils and Anhydrous Ethanol at Temperatures of (298.15 to 333.15) K*** **Luis A. Follegatti-Romero, Marcelo Lanza, César A.S. Silva, Eduardo A.C. Batista, António J.A. Meirelles**
PA3	***Critical Behavior of n-Alkanes + Nitrobenzene Systems*** **Tomasz Koziol, Malgorzata Sliwinska-Bartkowiak**
PA4	***Permeability of Hydrogen and Hydrogen-Methane Mixtures in Polyethylene, Studied by Molecular Simulation*** **Peyman Memari, Bernard Rousseau, Véronique Lachet**
PA5	***An Efficient Solvent Screening Method for Selective Crystallization of Chiral Compound Forming Systems*** **Henning Kaemmerer, Heike Lorenz, Andreas Seidel-Morgenstern**
PA6	***Cocrystallization of APIs in a Supercritical Solvent*** **Luis Padrela, Miguel Rodrigues, Sitaram Velaga, Henrique A. Matos, Edmundo G. Azevedo**
PA7	***Synthesis of Semiconductor Nanoparticles using Ionic Liquids*** **Alberto Arce, Eva Rodil, Borja Rodríguez-Cabo, Ana Soto**
POSTER AWARD **Tuesday, 15:25 - 18:00 (short oral presentations + discussion)**	
PA8	***Octanol/Water Partition Coefficients of Biodegradable Ionic Liquids*** **Yun Deng, A.M. Delort, Pascal Husson, Margarida C. Gomes**
PA9	***Prediction of Liquid-Liquid Equilibrium for Binary and Ternary Systems containing Ionic Liquids with the Tetrafluoroborate Anion using ASOG*** **Pedro A. Robles, Teófilo A. Graber, Martín Aznar**