



29th European Symposium on Applied Thermodynamics – ESAT 2017
May 18-21, 2017, Radisson Blu Hotel, Bucharest, ROMANIA

Thursday, May 18th, 2017

10.00-18.00		Registration (Registration desk – Radisson Blu Hotel, Atlas Foyer)
14.45-15.05		Opening Ceremony – Romanian Athenaeum (across Radisson Blu Hotel) <i>Catinca Secuianu, Mihnea Costoiu, Eugenia Macedo</i>
15.05-15.15		BASF – Diana Neacșu, Communications and Government Relations
15.15-16.45		Invited lectures (Romanian Athenaeum) <i>Chairs: Catinca Secuianu and Georgios Kontogeorgis</i>
15.15-16.00	IL1	Phase Behaviour, Interfacial and Single-Phase Properties of CO₂-Brine Mixtures for Applications in Carbon Storage <i>J.P. Martin Trusler – Imperial College London, UK</i>
16.00-16.45	IL2	Fast and robust volume-based phase equilibrium calculations <i>Dan Nichita – University of Pau and Pays de l'Adour, France</i>
17.00-19.30		Coffee Break (Radisson Blu Hotel, Prefunction area) Poster Session – Radisson Blu Hotel (Prefunction Area, Atlas Foyer)
19.30-22.00		Welcome Cocktail



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Friday, May, 19th 2017

8.00-10.00						Registration (Registration desk – Radisson Blu Hotel, Atlas Foyer)							
8.30-10.45						Invited lectures (Atlas 1) <i>Chairs: Ioannis Economou, Alexey Victorov, and Urszula Domańska-Żelazna</i>							
8.30-9.15		IL3	Electrolyte solutions: Simulation challenges and the quest for better models <i>Athanassios Z. Panagiotopoulos – Princeton University, USA</i>										
9.15-10.00		IL4	Solubility of precombustion gasses and sulfur components in ionic liquids and physical solvents by Monte Carlo simulations <i>Thijs Vlugt – Delft University of Technology, The Netherlands</i>										
10.00-10.45		IL5	Polymer – based nanocomposites. New methods and concepts <i>Horia Iovu – University Politehnica of Bucharest, Romania</i>										
10.45-10.50		BASF presentation											
10.50-11.15		Coffee Break (Radisson Blu Hotel, Prefunction area) Poster Session – Radisson Blu Hotel (Prefunction Area, Atlas Foyer)											
11.15-13.00		Parallel sessions											
		Atlas 1			Merope 1+2			Electra 1+2					
		Session: Phase equilibria & transport properties (experimental & modelling) <i>Chairs: Dan Nichita and Martin Trusler</i>			Session: Molecular & statistical thermodynamics <i>Chairs: Athanassios Z. Panagiotopoulos and Thijs Vlugt</i>			Session: Phase equilibria & transport properties (experimental & modelling) <i>Chairs: Xuqiang Guo and Horia Iovu</i>					
11.15-11.30		01	Electrolyte Thermodynamics: Current Status, Future Challenges and some applications of an electrolyte CPA equation of state <i>Georgios M. Kontogeorgis – Technical University of Denmark</i>			08	Beyond “simple” COSMO-RS theory: Current developments and future perspectives for the improvement and extension of a successful model <i>Andreas Klamt – COSMOlogic GmbH&CoKG/University of Regensburg</i>			015	Extraction of 2–phenylethanol (PEA) from aqueous phase using ionic liquids <i>Urszula Domańska-Żelazna – Warsaw University of Technology</i>		
11.30-11.45		02	Sponsored by BASF Phase equilibria for CO ₂ + 1,2-dimethoxy-ethane at high-pressures <i>Sergiu Sima – University Politehnica of Bucharest</i>			09	Round Robin Study of Molecular Simulation Programs <i>Michael Schappals – University of Kaiserslautern</i>			016	High pressure vapor-liquid equilibria for Diethyl + methane and + carbon dioxide <i>Silvana Mattedi – University Federal of Bahia</i>		



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11.45-12.00	03	Accurate modelling of high-pressure phase-equilibria of mixtures containing non-condensable components <i>Silvia Lasala</i> – University of Lorraine	010	Perturbation based activity coefficient model for hard-sphere chain mixtures <i>Gerard J.P. Krooshof</i> – DSM Ahead B.V/ Eindhoven University of Technology	017	Thermodynamic stability of ethane clathrate hydrate under an external field <i>Matthew Lasich</i> – University of KwaZulu-Natal
12.00-12.15	04	Investigation of Mass Transfer in Liquid-Liquid Systems based on Density Gradient Theory <i>Tim Zeiner</i> – TU Dortmund	011	CO ₂ solubility in carboxylic acids: PC-SAFT modeling and Monte Carlo simulations <i>Mahinder Ramdin</i> – Delft University of Technology	018	Viscosity of long-chain molecules <i>Velisa Vesovic</i> – Imperial College London
12.15-12.30	05	Influence of temperature on liquid-liquid equilibria of water+alcohol+entrainer systems <i>Cara E. Schwarz</i> – Stellenbosch University	012	Combining the reaction ensemble with the Continuous Fractional Component Monte Carlo technique <i>Ali Poursaeidesfahani</i> – Delft University of Technology	019	Gas hydrates in, on and around water droplets <i>Daniel Broseta</i> – University of Pau and Pays de l'Adour
12.30-12.45	06	A methodology for the development of an extensive databank containing Gibbs-energy-of-solvation data of pure and mixed solutes <i>Edouard Moine</i> – University of Lorraine	013	Technology Predicting Liquid-Liquid Equilibria with Associating Lattice Cluster Theory <i>Kai Langenbach</i> – University of Kaiserslautern/Rice University	020	Modeling of aggregates in ionic surfactant solutions and concentration effect <i>Nikolai A. Volkov</i> – Saint Petersburg State University
12.45-13.00	07	Calculation of water content of natural gases using the PC-SAFT equation of state <i>Khashayar Nasrifar</i> – Shiraz University of Technology	014	Renewable platform-chemicals and materials: Thermochemical study of levulinic acid esters <i>Sergey Verevkin</i> – University of Rostock <i>Christoph Held</i> – TU Dortmund University	021	Study on the thermodynamics and kinetics of CH ₄ hydrate in the presence of bio-additives <i>Qiang Sun</i> – China University of Petroleum
13.00-14.30	Lunch Poster Session- Radisson Blu Hotel (Prefunction Area, Atlas Foyer)					
14.30-16.30	Parallel sessions					
	Atlas 1		Merope 1+2		Electra 1+2	
	Session: Phase equilibria & transport properties (experimental & modelling) <i>Chairs: Romain Privat and Michael Kleiber</i>		Session: Molecular & statistical thermodynamics <i>Chairs: Joachim Gross and Jean-Charles de Hemptinne</i>		Session: Phase equilibria & transport properties (experimental & modelling) <i>Chairs: Sergey Verevkin and Antonio Marcilla</i>	
14.30-14.45	022	How accurate can be the predictions of critical and subcritical phase behavior in	030	Pitfalls in vapor-liquid equilibrium simulations: Reliability of published data	038	A thermodynamic approach for the prediction of mixed gas transport and solubility in glassy polymers



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		aqueous systems without fitting binary parameters? <i>Ilya Polishuk – Ariel University</i>		<i>Ivo Nezbeda – Czech Academy of Sciences/J.E. Purkinje University</i>		<i>Giulio C. Sarti – University of Bologna</i>
14.45-15.00	023	Statistical significance of modelling factors in high-pressure phase equilibria <i>Johannes H. Knoetze – Stellenbosch University</i>	031	Finite-Size Effects of Kirkwood-Buff Integrals from Molecular Simulations <i>Noura Dawass – Delft University of Technology</i>	039	Uncertainties in the determination of reaction equilibria <i>Karsten Müller – Friedrich-Alexander-Universität Erlangen-Nürnberg</i>
15.00-15.15	024	Volume-translation in cubic EoS: which parameterization for pure-components and which mixing rule for multicomponent systems <i>Yohann Le Guennec – University of Lorraine</i>	032	Computing Chemical Potentials of Water, Methanol, Carbon Dioxide, and Hydrogen Sulfide at Low Temperatures Using Continuous Fractional Component Gibbs Ensemble Monte Carlo <i>Ahmadreza Rahbari – Delft University of Technology</i>	040	Experimental and Modelling study of the HPHT Phase Equilibria of crude oil <i>Emmanuel Chidi Efika – Imperial College London</i>
15.15-15.30	025	Experimental and Modeling Study of the Phase Behavior of (Butanoic Acid + Carbon Dioxide) and (Propanoic Acid Methyl Ester + Carbon Dioxide) at Temperatures Between (323.15 and 423.15) K and Pressures up to 20 MPa <i>Sultan S. A. Al Habsi – Imperial College London</i>	033	Molecular dynamics simulation of homogeneous bubble nucleation <i>Martin Horsch - University of Kaiserslautern</i>	041	Modeling of Multicomponent Phase Equilibria in Ionic Liquid Systems Using Leading Thermodynamic Approaches: PC-SAFT vs COSMO-RS <i>Kamil Padiuszyński – Warsaw University of Technology</i>
15.30-15.45	026	Thiophene Removal from {Aliphatic + Thiophene} Mixtures Using Tetrahexylammonium-based Deep Eutectic Solvents <i>Samah E.E Warrag – Eindhoven University of Technology/The Petroleum Institute</i>	034	Adsorption of CO ₂ /N ₂ mixtures on MFI: a molecular simulation study <i>Lucienne L. Romanielo – Federal University of Uberlândia</i>	042	Liquid-Liquid Equilibrium for Extraction of Dilute Aqueous Furfural Mixtures <i>Mikael Männistö – Aalto University</i>
15.45-16.00	027	Predicting the viscosity of <i>n</i> -alkane liquid mixtures <i>Thanh-Binh Nguyen – Imperial College London</i>	035	Interfacial Properties of the Lennard Jones Truncated and Shifted Fluid by Molecular Simulations and a New	043	Calculation of Multiphase Chemical Equilibrium by Non-Stoichiometric Methods



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				Equation of State Combined with Density Gradient Theory <i>Simon Stephan</i> - University of Kaiserslautern		<i>Christos Tsanas</i> – Technical University of Denmark
16.00-16.15	028	A new association scheme and CPA parameterization for monoethylene glycol <i>Francois Kruger</i> – Technical University of Denmark	036	Association equilibrium, kinetics, and gelation in a solution of cross-associating chains with inactive fragments <i>Igor Gotlib</i> – Saint Petersburg State University	044	Necessity of assessment of the LLE correlation parameters prior to publication <i>Antonio Marcilla</i> – University of Alicante
16.15-16.30	029	Phase Behaviour of the Ternary System (CO ₂ + Methylcyclohexane + N ₂) <i>Geraldine A. Torin-Ollarves</i> – Imperial College London	037	A Novel Force Field Development Algorithm to Improve the Quantitative Predictability of Thermophysical Properties with Molecular Simulation <i>Richard A. Messerly</i> – National Institute of Standards and Technology	045	Predictive Models Evaluation for Physical Properties of Pure Ionic Liquids <i>Kamil Oster</i> – The University of Manchester/ Queen’s University Belfast
16.30-17.30	WP-TTP meeting (by invitation only) – Merope 1+2					
17.30-19.30	<i>Guided visit</i>					
19.30-22.00	<i>Dinner at Manuc’s Inn (La Hanu’ lui Manuc)</i>					



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Saturday, May, 20th 2017

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8.30-10.45		Invited lectures (Atlas 1) <i>Chairs: Sabine Enders, Ralf Dohrn, and Cor Peters</i>				
8.30-9.15	IL6	ATPS for the Recovery of Biomolecules: Characterisation and Application <i>Eugenia Macedo – University of Porto, Portugal</i>				
9.15-10.00	IL7	Thermodynamics of fluids in confinement: Molecular models and property predictions <i>Ioannis Economou – Texas A&M University at Qatar, Qatar</i>				
10.00-10.45	IL8	How to parameterize SAFT and cubic equations of state to boost their performance <i>Romain Privat – University of Lorraine, France</i>				
10.45-11.15		Coffee Break (Radisson Blu Hotel, Prefunction area) Poster Session – Radisson Blu Hotel (Prefunction Area, Atlas Foyer)				
Parallel Sessions						
		Atlas 1	Merope 1+2	Electra 1+2		
		Session: Phase equilibria & transport properties (experimental & modelling) <i>Sponsored by IFP Energies Nouvelles</i> <i>Chairs: Ilya Polishuk and Ana Soto</i>	Session: Molecular & statistical thermodynamics <i>Chairs: Patrice Paricaud and Andreas Klamt</i>	Session: Gas & oil (downstream and upstream), petrochemicals, hydrofracking <i>Chairs: Ivo Nezbeda and Nicolas von Solms</i>		
11.15-11.30	O46	Measurement of Phase Equilibria at High Pressure: Trends and Systems Investigated <i>Ralf Dohrn – Bayer AG</i>	O53	Extension of the BMCSL equation of state for hard spheres to the metastable disordered region: Application to the PC-SAFT model <i>Patrice Paricaud – Université Paris-Saclay</i>	O60	General Multiphase PH Flash and Its Application in Thermal Recovery <i>Wei Yan – Technical University of Denmark</i>
11.30-11.45	O47	On the condition of electroneutrality in liquid-liquid equilibria <i>Saifuddin Ahmed – IFP Energies Nouvelles</i>	O54	Modification of the Wolf Summation and Application to Molecular Simulation of Phase Equilibria for Molecules with Partial Charges and Induced Dipoles <i>Christian Waibel – University of Stuttgart</i>	O61	Transport of gases confined in kerogen: Diffusion paths, diffusion coefficients and permeability <i>Manolis Vasileiadis – National Center for Scientific Research “Demokritos”</i>
11.45-12.00	O48	New Model for Liquid Adsorption Isotherms of Isomeric Mixtures <i>Thomas Goetsch – TU Dortmund</i>	O55	Computer simulations and theory of decorated soft disks in two dimensions <i>Stefan Sokolowski – Maria Curie-Skłodowska University</i>	O62	An extension of SAFT-VR Mie to predict confined fluid properties: application to adsorption isotherms <i>Luís F. M. Franco – Texas A&M University at Qatar</i>



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12.00-12.15	049	Saturated phase densities of (CO ₂ + methylcyclohexane) at temperatures from (293 to 450) K and pressures up to 64 MPa <i>Yolanda Sanchez-Vicente</i> – Imperial College London	056	Molecular Dynamics Prediction of the Phase Equilibria of the Ternary Methane-Carbon Dioxide-Water Hydrate System <i>Vasileios K. Michalis</i> – National Center for Scientific Research “Demokritos”	063	Thermodynamic properties of fluids in the upstream petroleum engineering: from rigorous thermodynamics to soft computing <i>Vassilis Gaganis</i> – Technical University of Crete
12.15-12.30	050	RAND-based Formulations for Isothermal Multiphase Flash <i>Wei Yan</i> – Technical University of Denmark	057	Molecular Simulation of Activities in Electrolyte Solutions <i>Maximilian Kohns</i> – University of Kaiserslautern	064	A simplified thermodynamic approach for reservoir fluid phase behavior mapping with depth <i>Nikos Varotsis</i> – Technical University of Crete
12.30-12.45	051	In-situ Measurement of Physico-Chemical Properties of Liquids by Benchtop Nuclear Magnetic Resonance Spectroscopy <i>Anne Friebel</i> – TU Kaiserslautern	058	Simple and accurate prediction of high-pressure densities of RTILs using fluctuation-based isothermal EoS <i>Miroslaw Chorazewski</i> – University of Silesia	065	Modelling mercury distribution in the oil and gas value chain <i>Eleni Panteli</i> – Statoil ASA
12.45-13.00	052	An engineering perspective of a crossover equation of state <i>Andre P. C. M. Vinhal</i> – Technical University of Denmark	059	Molecular thermodynamic modeling of bilayer perforations in solutions of ionic surfactants <i>Ksenia A. Emelyanova</i> – St. Petersburg State University	066	Experimental Study on Asphaltene Aggregation Phenomena in a Microcapillary <i>Xingxun Li</i> – China University of Petroleum
13.00-14.15	Lunch Poster Session- Radisson Blu Hotel (Prefunction Area, Atlas Foyer)					
13.00-14.15	Steering Committee Meeting (by invitation only)					
14.15-16.00	Parallel Sessions					
	Atlas 1		Merope 1+2		Electra 1+2	
	Session: Phase equilibria & transport properties, Nanoscience & nanotechnology <i>Chairs: Daniel Broseta and Olivier Baudouin</i>		Carbon capture & storage <i>Chairs: Velisa Vesovic and Alireza Shariati</i>		Teaching Thermodynamics Workshop <i>Chairs: Jean-Nöel Jaubert, Nontas Voutsas, and Peter Ahlström</i>	
14.15-14.30	067	Calculation of bubble and dew points of mixtures with minimization of the tangent plane distance to a modified Gibbs free energy surface	074	Catalytic CO ₂ Capture directly from Air: a Molecular Modeling Study <i>Wim Buijs</i> – Delft University of Technology	W1	Teaching Chemical Engineering Thermodynamics at DTU: How, why, impressions and some personal thoughts



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		<i>Ilias K. Nikolaidis</i> – National Center for Scientific Research “Demokritos”/Texas A&M at Qatar				<i>Georgios M. Kontogeorgis</i> – Technical University of Denmark
14.30-14.45	068	Ion based Electrolyte CPA for Aqueous Single- and Multiple-Salt Solutions <i>Anders Schlaikjer</i> – Technical University of Denmark	075	Liquid-liquid phase separation of {amine – H ₂ O – CO ₂ } systems: New methods for key data <i>Karine Ballerat-Busserolles</i> – Chemistry Institute of Clermont-Ferrand		
14.45-15.00	069	Modelling of the equilibrium properties in {water- polyol} solutions <i>Oumar Toure</i> – ROQUETTE Freres	076	Supported Ionic Liquid Membranes with Finest CO ₂ Separation Performances: Insights into Structure-Property Relationships <i>Isabel M. Marrucho</i> – University Nova of Lisbon	W2	Thermath-XSEOS-YouThermo: from an alphabet soup to an educational project <i>Marcelo Castier</i> – Texas A&M University at Qatar
15.00-15.15	070	Phase equilibrium of CO ₂ -CH ₄ -brine systems at elevated temperature: application to Enhanced Geothermal System (EGS) <i>Clémentine Pouget</i> – University of Pau and Pays de l’Adour	077	Experimental study of CO ₂ solubility in NaCl solutions under high pressure and temperature <i>Hamdi Messabeb</i> – Université de Pau et des Pays de l’Adour		
15.15-15.30	071	Incorporating uncertainty in molar volume modelling of liquid metal chlorides <i>Lesley J. Beyers</i> – KU Leuven	078	Screening new amines for energy efficient absorption of CO ₂ from synthesis gas <i>Elmar Kessler</i> – TU Kaiserslautern	W3	Teaching Molecular Thermodynamics with COSMO-RS <i>Andreas Klamt</i> – COSMOlogic GmbH & CoKG / University of Regensburg
15.30-15.45	072	Nanothermodynamics of water clusters <i>Signe Kjelstrup</i> – Norwegian University of Science and Technology	079	Environomic optimization of the coal and natural gas fired power plants with carbon dioxide capture process <i>Cristian Dincă</i> – University Politehnica of Bucharest	W4	Innovative tools for teaching applied thermodynamics <i>Jean-Charles de Hemptinne</i> – IFP Energies Nouvelles
15.45-16.00	073	Correlation between thermodynamic properties, synthesis conditions and different compositional variables in nanometer-sized materials	080	A multiscale method to predict the mixed gas performance of polymeric membranes for CO ₂ capture <i>Eleonora Ricci</i> – University of Bologna		



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		<i>Speranța Tănăsescu – "Ilie Murgulescu"</i> Institute of Physical Chemistry of the Romanian Academy				
16.00-16.25	Coffee Break (Radisson Blu Hotel, Prefunction area) Poster Session – Radisson Blu Hotel (Prefunction Area, Atlas Foyer)					
16.25-17.55	Parallel Sessions					
	Atlas 1		Merope 1+2		Electra 1+2	
	Session: Colloids, surfactants & interfacial phenomena		Session: Novel reaction & separation technologies		Teaching Thermodynamics Workshop	
	<i>Chairs: Kamil Padászyński and Giulio Sarti</i>		<i>Chairs: Wim Buijs and Christoph Held</i>		<i>Chairs: Jean-Nöel Jaubert, Nontas Voutsas, and Peter Ahlström</i>	
16.25-16.40	081	Molecular thermodynamics for branched networks and bicontinuous phases in water+oil+surfactant microemulsions <i>Alexey Victorov – St. Petersburg State University</i>	087	An environmentally attractive CO ₂ -capturing technology for natural and industrial gas streams using gas hydrates <i>Cornelis J. Peters – The Petroleum Institute/ Colorado School of Mines</i>	W5	Presentation of second law and derivation of its main consequences <i>Giulio Sarti – University of Bologna</i>
16.40-16.55	082	Effects of alkyl-alcohols on the interface tension of asphaltene solutions <i>Ronaldo G. Santos – Industrial Engineering Faculty</i>	088	Transport properties of Ionic Liquids with gold nanoparticles <i>Oscar Cabeza – University of Coruña</i>		
16.55-17.10	083	Nonuniformity of Droplets with Solid Charged or Uncharged Cores <i>Alexander Shchekin – St Petersburg State University</i>	089	Separation of Azeotropic Mixtures using Ionic Liquids <i>Eleni Boli – National Technical University of Athens</i>	W6	Beloved like aTax Increase – Thermodynamics in Industry <i>Michael Kleiber – thyssenkrupp Industrial Solutions AG</i>
17.10-17.25	084	A new methodology for liquid-adsorption experiments on porous solids <i>Thomas Hähnel – University of Applied Sciences Dresden</i>	090	Solubility of Carbon Dioxide and Hydrogen Sulfide in the Ionic Liquid 1-Butyl-3-methylimidazolium Trifluoromethanesulfonate <i>Amir H. Jalili – Research Institute of Petroleum Industry</i>	W7	Gibbs energy minimization: a path to introduce this tricky concept to undergraduate students <i>Romain Privat – Université de Lorraine, ENSIC-LRGP</i>
17.25-17.40	085	Influence of additives in Triton X solutions on micellar properties and solute partitioning for the design of bioprocesses	091	Modelling CO reactive absorption into ionic liquid/metal salt mixtures with soft-SAFT EoS <i>Gabriel Zarca – University of Cantabria</i>	W8	Teaching Thermodynamics with MOOC: Motivations and Results <i>Arnaud Delebarre – MINES ParisTech</i>



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		<i>Alina Koneva</i> – St. Petersburg State University				
17.40-17.55	086	Fast and accurate determination of protein equation of state using microfluidic device <i>Sébastien Teychené</i> – University of Toulouse	092	Structure of the Electric Double Layer in Ionic Liquid Mixtures <i>Luis M. Varela</i> – University of Santiago de Compostela	W9	Thermodynamics from theory to praxis; Laboratory Project in Chemical Engineering <i>Juha-Pekka Pokki</i> – Aalto University
17.55-18.00	Break					
18.00-19.15	Parallel Sessions					
	Maia		Merope 1+2		Electra 1+2	
	Session: Biological systems & health, Pharmaceuticals & cosmetics Chairs: Oscar Rodriguez and Masahide Terazima		Session: Alternative solvents, Novel reaction & separation technologies, Chairs: Isabel Marrucho and Cara E. Schwarz		Session: Product & process design Chairs: Thomas Wallek and Juha-Pekka Pokki	
18.00-18.15	093	Time-resolved thermodynamics reveals transient fluctuation of proteins <i>Masahide Terazima</i> – Kyoto University	097	Solute-solute binary interaction parameters for the ternary system CO ₂ +1-decanol+n-tetradecane <i>Cara E. Schwarz</i> – Stellenbosch University	0101	Optimization of the extraction process of TMTZ, a prospective future propellant <i>Anne-Julie Bougrine</i> – Claude Bernard Lyon 1 University
18.15-18.30	094	Sponsored by BASF New Oxidized Compounds and Polyketides from Wheat Cuticular Waxes <i>Radu C. Racoviță</i> – University of British Columbia/National Institute of Research and Development for Food Bioresources	098	Influence of additives on equilibrium limited enzymatic reactions <i>Matthias Voges</i> – TU Dortmund University	0102	Application of graph theory to process design and analysis <i>Florian Pöllabauer</i> – Graz University of Technology
18.30-18.45	095	Co-solvent induced changes of bioreaction kinetics and equilibria <i>Anton Wangler</i> – TU Dortmund University	099	Volumetric properties versus mass transfer in membranes processes <i>Johanne Teychené</i> – University of Toulouse	0103	Thermodynamic property modelling for Lipids Based Process and Product Design <i>Olivia A. Perederic</i> – Technical University of Denmark
18.45-19.00	096	Effect of operational variables of the synthesis in the solubility of ampicillin <i>Silvana Mattedi</i> – Federal University of Bahia	0100	Experimental and Theoretical Study on the Extraction of Aromatics from Aliphatic Hydrocarbons with Ionic Liquids <i>Amir Jalili</i> – Research Institute of Petroleum Industry	0104	Application of Thermodynamics in Industrial Slurry Catalytic Ethylene Polymerization Processes <i>Maryam Tamaddon</i> – SABIC Technology Center
20.30-	Helmut Knapp Poster Award sponsored by Heidi & Gala Dinner					



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Sunday, May, 21st 2017

Invited lectures (Atlas 1)

Chair: Eugenia Macedo and Karel Aim

9.00-9.45	IL9	Thermodynamics in Qatar <i>Michael Kleiber – thyssenkrupp Industrial Solutions AG, Germany</i>				
9.45-10.00	Simulis Thermodynamics: a bridge from research to industries <i>Olivier Baudouin – ProSim</i>					
10.00-10.30	Ceremony EFCE Excellence Award <i>Jean-Charles de Hemptinne, Ralf Dohrn, and Jean-Nöel Jaubert</i>					
10.30-10.45	Presentation of ESAT 2018					
10.45-11.15	Coffee break – Radisson Blu Hotel (Prefunction Area)					
11.15-12.30	Parallel Sessions					
	Atlas 1		Merope 1+2			
	Session: Carbon capture & storage, Renewable Energy <i>Chairs: Karine Ballerat-Busserolles and Cristian Dincă</i>		Session: Food & functional food processing, Molecular & statistical thermodynamics <i>Chairs: Marcelo Castier and Tim Zeiner</i>			
				Electra 1+2 <i>Chairs: Johannes Knoetze and Signe Kjelstrup</i>		
11.15-11.30	O105	On the use of exergy analysis for waste combustion <i>Peter Ahlström – University of Borås</i>	O110	Aqueous Two-Phase Extraction: Partition coefficients and phase diagrams <i>Oscar Rodríguez – University of Santiago de Compostela</i>	O115	Modeling and Measurement of Solubility and Swelling in Supercritical Carbon Dioxide – Polymer Systems <i>Nicolas von Solms-Technical University of Denmark</i>
11.30-11.45	O106	E-PPR78: a proper cubic EoS for modeling fluids of CCS processes <i>Xiaochun Xu – University of Lorraine</i>	O111	A new potential function to calculate second virial coefficients of polar gases <i>Alireza Shariati – Shiraz University</i>	O116	Impact of Polydispersity on Phase Equilibria of Branched Polyethylene Solutions <i>Christoph Walowski – Karlsruhe Institute of Technology</i>
11.45-12.00	O107	Temperature independent description of the adsorption equilibria of adsorption pairs with IUPAC type V adsorption behaviors <i>Kohler Tobias – University of Erlangen-Nuremberg</i>	O112	Deriving Equations of State based on a simple coupling parameter expansion <i>Spiros Kournopoulos – Imperial College London</i>	O117	A New Simulation Scenario for the Coil-to-globule Transition of Thermoresponsive Polymers <i>Edder J. García – University of Kaiserslautern</i>



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12.00-12.15	O108	Use of reversible gas-solid-reactions to store thermal energy – screening and general thermodynamic assessment <i>Jonas Obermeier</i> – University of Erlangen-Nuremberg	O113	Modeling and Simulation of Wetting of Component Surfaces <i>Michaela Heier</i> – University of Kaiserslautern	O118	Solubility of gases in glassy and semicrystalline polymers <i>Michael Fischlschweiger</i> – OTTRONIC GmbH
12.15-12.30	O109	Uncertainties related to CO ₂ Storage in deep brine aquifer <i>Mariana Laura Nistor</i> – Schlumberger	O114	Ionic Specificity of Alkali Cations Adsorption on Charged Silica <i>Sarah Hocine</i> – University of Montpellier	O119	Thermodynamics of polyazulene based materials <i>Eleonora-Mihaela Ungureanu</i> – University Politehnica of Bucharest
12.30-12.45	Atlas 1					
	Closing Ceremony					
12.45-14.00	Lunch					