Monday, September 5

	Lisbon time				
	13:00/13:15	Opening session			
	Chairperson: João A.P. Coutinho				
		PLENARY LECTURE 1			
	13:15/14:00	Nanostructuration effect on the properties of ionic fluids			
		Luís Santos			
		ORAL PRESENTATIONS			
	14:00/14:15	Thermal properties and structure of <i>bis</i> (1-hexadecyl-3-methylimidazolium) tetrachloronickelate ionic liquid			
		Magdalena Bendová			
	14:15/14:30	iSenseDSC: Refurbishment and optimization of a high precision microcalorimeter			
		Rodrigo Silva			
	14:30/14:45	Improvement of CO ₂ capture processes by tailoring the reaction enthalpy of aprotic n-heterocyclic anion-based ionic liquids			
		Daniel Hospital-Benito			
	14:45/15:00	Thermodynamic properties of lithium <i>bis</i> ((trifluoromethyl)sulfonyl)amide and its solid-liquid equilibrium with water			
	15:00/15:15	Eugene Paulechka			
	13:00/13:13	BREAK			
ids		Chairperson: Luís M.N.B.F. Santos			
iqui	15:15/15:30	ORAL PRESENTATIONS			
c L	15:15/15:30	Encapsulated ionic liquids (enil) for CO ₂ /CH ₄ separation using fixed bed columns			
oni	15 20/15 45	Jesús Lemus			
SESSION A - Ionic Liquids	15:30/15:45	Asymmetric poly(ionic liquid)—ionic liquid membranes for gas separation			
Z	15 45/16 00	Bruna Soares			
SIO	15:45/16:00	Design of biogas upgrading processes based on ionic liquids			
ES	16.00/16.15	Cristian Moya			
	16:00/16:15	Mixed matrix membranes composed of encapsulated amino acid-based ionic liquids for gas separation applications Liliana Silva			
	16:15/16:30	BREAK			
		Chairperson: Ala Bazyleva			
		INVITED LECTURE 1			
	16:30/17:00	Pharmaceuticals and ionic liquids			
		Slobodan Gadžurić			
	ORAL PRESENTATIONS				
	17:00/17:15	Extraction of dyes from polyester fibres using ionic liquids			
		Guillaume Simon			
	17:15/17:30	Reaction-extraction platforms towards CO ₂ -derived cyclic carbonates catalyzed by ionic liquids by COSMO models Alejandro Belinchón			
	17:30/17:45	Low energy-demanding separation of propylene carbonate and ionic liquid catalyst after CO ₂ conversion Elisa Hernández			
	17:45/18:00	Extractive distillation for refrigerant blends separation: solvent selection and process simulation Miguel Viar			

Tuesday, September 6

	Lisbon time	
		Chairperson: Selva Pereda
		PLENARY LECTURE 2
	13:00/13:45	Solubility of biomolecules
lbria		Christoph Held
		ORAL PRESENTATIONS
liil i	13:45/14:00	In silico solvent screening in pharmaceutical drug development
Eq		Michael Diedenhofen
ns and Phase	14:00/14:15	Solubility of orange peel oil components in supercritical CO ₂ +ethane azeotropic mixture
		Pablo Hegel
	14:15/14:30	Modeling CO ₂ solubility and pH in aqueous and organic solutions using ePC-SAFT
		Daniel Schick
lutic	14:30/14:45	BREAK
So		Chairperson: Bernd Rathke
sno		ORAL PRESENTATIONS
SESSION B - Modeling: Aqueous Solutions and Phase Equilibria	14:45/15:00	Extended specific ion theory (ESIT) with ion pairing: 1-1 and 2-2 electrolytes in regular and modified molality scale Alex De Visscher
	15:00/15:15	A thermodynamic model for neodymium oxalate in aqueous solutions of HNO ₃ , HCl, HClO ₄ , and Nd(NO ₃) ₃ at 298 K and 0.1 MPa Charles S. Oakes
B.	15:15/15:30	Modeling phase equilibria and electrical conductivity for lithium-ion battery applications
O		Peiming Wang
SESSI	15:30/15:45	Thermodynamic characteristics of salt dissolution processes in a three-component water-salt system CsCl – CaCl ₂ – H ₂ O Rabiga Tleuzhanov
	15:45/16:00	The phase equilibria of aqueous electrolytes in confinement under martian condition
		Shaoheng Wang
	16:00/16:30	BREAK
		Chairperson: Earle Waghorne
٦		PLENARY LECTURE 3
iste	16:30/17:15	Association-based activity coefficient models for nonelectrolyte and electrolyte solutions
Assi		Chau-Chyun Chen
ter		ORAL PRESENTATIONS
) Jajo	17:15/17:30	Solubility in "The Properties of Gases and Liquids" 6th Ed.
Lon m		Vladimir Diky
] - ()	17:30/17:45	High pressure multiphase phase equilibria of CO ₂ -water-lignin derivatives
SION C - Computer A Equilibrium Calculati		Francisco Sánchez
SESSION C - Computer Assisted Equilibrium Calculation	17:45/18:00	Designer solvents by cicloaddition reactions of CO ₂ : carbonates and biocarbonates
ES		Pablo Navarro
	18:00/18:15	High temperature vapor-liquid equilibrium of alcohols+water mixtures
		Cristiana Ferreira

Wednesday, September 7

	Chairperson: Magdalena Bendová
	POSTER SESSION A
13:00/13:04	A1. Effect of solvent composition onto composition and structure of metal-organic frameworks on the basis of copper and zinc terephthalates Mikhail Skripkin
13:04/13:08	A2. Thermodynamic elucidation of the relationship chemical species in water soil extracts - phytoaccumulation Diana Rabadjieva
13:08/13:12	A3. Solubility studies of monoterpenoids in organic solvents Sérgio Vilas-Boas
13:12/13:16	A4. Oxide film formation on construction materials of the nuclear reactor first circuit with water coolant Mikhail Skripkin
13:16/13:20	A5. Liquefying flavonoids with terpenoids through deep eutectic solvent formation Gabriel Teixeira
13:20/13:24	A6. Kamlet-Taft and pH polarity scales as tools to understand the hydrotropy effect of alkanediols Bruna P. Soares
13:24/13:28	A7. Insights into the formation of (deep) eutectic solvents Mónia Martins
13:28/13:32	A8. Selective extraction of inhibitory compounds and sugars from aqueous media using green solvents Blanca Miera
13:32/13:36	A9. Experimental investigation and thermodynamic modeling of cannabidiol solubility in oils and acid-based eutectic solvents Ahmad Alhadid
13:36/13:40	A10. Removal of azo dyes with deep eutectic solvent doped chitosan beads Oscar Martínez
13:40/13:44	A11. Poly(ionic liquid)s for dyes removal agents Bruna F. Soares
13:44/13:48	A12. Computational modelling of type V deep eutectic solvents Gabriel Teixeira
13:48/13:52	A13. Ionic liquids as entrainers for the fractionation of terpene mixtures Sérgio Vilas-Boas
13:52/13:56	A14. Electrical conductivity measuring system based on a multi-frequency impedance methodology Carlos Miranda
13:56/14:00	A15. Impact of silicate on the solubility and aqueous speciation of U(VI) in alkaline to hyperalkaline systems Sarah Duckworth
14:00/14:04	A16. Actinide complexation with organic ligands in the WIPP: state-of-the-art Elisenda Colàs
14:04/14:08	A17. Solubility of Nd(OH) ₃ am and Nd(OH) ₃ cr in the presence of citrate and EDTA Ceren Aslani
14:08/14:45	POSTER DISCUSSION PERIOD
14:45/15:00	BREAK

Wednesday, September 7

	Chairperson: Johan Jacquemin
	POSTER SESSION B
13:00/13:04	B1. The perspective of cooperative hydrotropy on the solubility in aqueous solutions of cyrene
	Jordana Benfica
13:04/13:08	B2. Effect of activated carbon pore size on the sorption of aqueous benzene solution
	Madison Lasich
13:08/13:12	B3. Electrochemical platform based on nanostructured carbon electrode for determination of anti- inflammatory drugs (NSAID) in water Sorina Motoc (m. Ilies)
13:12/13:16	B4. Fatty acids-based eutectic solvents liquid membranes for removal of sodium diclofenac from water
	João Afonso
13:16/13:20	B5. COSMO-RS prediction and experimental physicochemical characterizations of aqueous solution of superbase ionic liquids Filipe Sosa
13:20/13:24	B6. A thermochemical contribution to the study of the conversion of biomass platform molecules
	Ana Silva
13:24/13:28	B7. Prediction models for aromatic/aliphatic and olefinic/aliphatic separation in ionic liquids
	Pedro Carvalho
13:28/13:32	B8. Methylimidazolium-based ionic liquids as separation agents for fuel processing
	Aline Coelho
13:32/13:36	B9. Hydrotropic effect in the presence of electrolytes: competition between solute salting-out and salt-induced hydrotrope aggregation Jordana Benfica
13:36/13:40	B10. Solubilities of amino acids in aqueous solutions of salts composed of divalent cations
	Mehriban Aliyeva
13:40/13:44	B11. Solid-liquid equilibria of organic acids in bio-based solvents
	Pablo Lopez-Porfiri
13:44/13:48	B12. Solvent screening for the separation of natural phenolic compounds using two computational models Isabella Cordova
13:48/13:52	B13. Zwitterionic ionic liquids as hydrotropes: The influence of cationic alkyl chains and spacer size on bioactive compounds solubility Ana Pinto
13:52/13:56	B14. Solubility of H ₂ S in ethylene glycol - based solvents José Sousa
13:56/14:00	B15. Aqueous biphasic system for separation of super base ionic liquids Filipe Sosa
14:00/14:04	B16. Enhancing pharmaceutical media solubility and stability by thermodynamic modeling
	Tianxin Zhang
14:04/14:08	B17. Solubility, liquid-liquid, vapor-liquid phase equilibria and critical states in the system with butyl acetate synthesis reaction at 323.15 K Georgii Misikov
14:08/14:12	B18. Formation and solubility of abellaite, NaPb ₂ (CO ₃) ₂ (OH)(s)
	Jay Jang
14:12/14:49	POSTER DISCUSSION PERIOD

	WORKSHOP
15:00/16:15	Assessment of reliability and uncertainty of solubility data
	Ala Bazyleva
16:15/16:30	BREAK
16:30/17:45	Gas solubility in materials – a technical evaluation of literature data
	Johan Jacquemin

Thursday, September 8

	Lisbon time				
	Chairperson: Maria González-Miquel				
	PLENARY LECTURE 4				
	13:00/13:45	DES, ES and ILS: tailoring solvents for sustainable applications			
olvents		Isabel Marrucho			
	ORAL PRESENTATIONS				
	13:45/14:00	Deep eutectic solvents. A new approach to the separation and purification of substances for the food and cosmetic industry Alexandra Golikova			
	14:00/14:15	Terpene based deep eutectic solvents for the removal of textile dyes Andrés Asla			
	14:15/14:30	Efficiency of deep eutectic solvents based on choline chloride for the separation of alcohol – ester systems for the potential use in the biofuels production Alexander Smirnov			
ic S	14:30/14:45	BREAK			
tect		Chairperson: Vladimir Diky			
Eu1		ORAL PRESENTATIONS			
SESSION D - Deep Eutectic Solvents	14:45/15:00	Design of deep eutectic systems: plastic crystalline materials as eutectic mixture constituents Ahmad Alhadid			
SSION	15:00/15:15	Poly(ethyleneterephtalate) and polyethylene targeted solubilization and recovery with green solvents João Afonso			
SE	15:15/15:30	Zooming in with QSPR on solution enthalpies of API's in eutectic mixtures Nélson Nunes			
	15:30/15:45	Solubility studies of amino acids in the eutectic solvent constituted by urea and sodium acetate trihydrate Cristina Gallego			
	15:45/16:00	Studies on the controlled release of metal ions from nanomaterials using neoteric solvents for agricultural applications Mónia Martins			
	16:00/16:15	Ionic liquids and their analogues zwitterionic compounds as a pathway to alternative hydrotropes Ana Pinto			
	16:15/16:30	BREAK			
ıry		Chairperson: Montserrat Filella			
nist		INVITED LECTURE 2			
SESSION E - Phase Equilibria & Solution Chemistry	16:30/17:00	Illustrations of the synergy between thermodynamics and chemical reaction into the triptych "bioproducts-bioenergy-water" Lucie Coniglio			
olut		ORAL PRESENTATIONS			
Š	17:00/17:15	Liquid-liquid phase behavior of binary mixtures of acetonitrile and n-alkanes			
ia &		Bernd Rathke			
libr	17:15/17:30	Chromium behaviour in the environment			
 qui		Clara Magalhães			
Phase E	17:30/17:45	Remediation of soils contaminated with total petroleum hydrocarbons through washing with surfactant's solutions Gabriela Caetano			
ON E	17:45/18:00	Solubility phenomena in enhanced oil recovery Alba Somoza			
SESSIC	18:00/18:15	Sorption of hydrogen sulphide in cellulose + cement hydrate blends Madison Lasich			
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Friday, September 9

>		Chairperson: Christoph Held
istr		ORAL PRESENTATIONS
emi	13:00/13:15	Volumes of fun with electrolyte solutions
ರ		Glenn Hefter
SESSION F -Aqueous Solution Chemistry	13:15/13:30	Analysis by cyclic voltammetry of a concentrated ternary system of lithium acetate- cesium acetate-water Kirill Mukhin
sno	13:30/13:45	Neutralization of tricalcium aluminate hydrates with hydrochloric acid
enl		Eszter Kása
-AG	13:45/14:00	Proton transfer from carbonic acid in aqueous solution
E		Baranauskaite Valeriia
01	14:00/14:15	Curation of scientific data at risk of loss: data rescue and dissemination
ESS		Montserrat Filella
\mathbf{z}	14:15/14:30	Break
	14:30/15:00	FRANZOSINI AWARD SESSION AND LECTURE
		Chairperson: Marcus Altmaier
ste		ORAL PRESENTATIONS
ar Waste	15:00/15:15	ORAL PRESENTATIONS Solubility, TRLFS and IWA measurements of Eu(III) in dilute to concentrated nitrate and sulfate systems: thermodynamic and (SIT, Pitzer) activity models
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. Nuclear Waste	15:00/15:15 15:15/15:30	ORAL PRESENTATIONS Solubility, TRLFS and IWA measurements of Eu(III) in dilute to concentrated nitrate and sulfate systems: thermodynamic and (SIT, Pitzer) activity models Pedro Santos Thermodynamic database for the solubility assessment in concentrated brines
G - Nuclear Waste	15:15/15:30	ORAL PRESENTATIONS Solubility, TRLFS and IWA measurements of Eu(III) in dilute to concentrated nitrate and sulfate systems: thermodynamic and (SIT, Pitzer) activity models Pedro Santos Thermodynamic database for the solubility assessment in concentrated brines Elisenda Colàs
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SSION G - Nuclear Waste	15:15/15:30 15:30/15:45	ORAL PRESENTATIONS Solubility, TRLFS and IWA measurements of Eu(III) in dilute to concentrated nitrate and sulfate systems: thermodynamic and (SIT, Pitzer) activity models Pedro Santos Thermodynamic database for the solubility assessment in concentrated brines Elisenda Colàs Impact of gluconate on the solubility and redox chemistry of technetium Sarah Duckworth
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SESSION G - Nuclear Waste	15:15/15:30 15:30/15:45 15:45/16:00	ORAL PRESENTATIONS Solubility, TRLFS and IWA measurements of Eu(III) in dilute to concentrated nitrate and sulfate systems: thermodynamic and (SIT, Pitzer) activity models Pedro Santos Thermodynamic database for the solubility assessment in concentrated brines Elisenda Colàs Impact of gluconate on the solubility and redox chemistry of technetium Sarah Duckworth Citrate-mediated plutonium redox and effect of elevated temperature on americium-EDTA complexation Matthew Comins