



Rede Galega de Líquidos
Iónicos (REGALIs)



UNIVERSIDADE DA CORUÑA

SUMMER SCHOOL ON IONIC LIQUIDS PROGRAM

SUNDAY, JUNE 9

19:00h- Registration

21:30h- Informal Dinner in Mar del Norte Hotel

MONDAY, JUNE 10

SESSION 1: INTRODUCTION TO IONIC LIQUIDS

Chairman: Oscar Cabeza

10:00h- *Ionic Liquids, an introduction.* Ken Seddon. Queen's University Belfast

11:00h- *Synthesis of ILs.* Emilia Tojo. UVigo

11:30h- Coffee break

12:00h- *Structure-property relationships on ILs.* Josefa Fernández. USC

12:30h- *Theoretical and computational aspects of ILs.* Luis M. Varela. USC

13:00h- *Ionic liquids as separation agents in the petroleum industry.* Oscar Rodríguez. USC

13:30h – Lunch

SESSION 2: PHYSICAL PROPERTIES OF ILs

Chairwoman: Josefa Fernández

15:30h- *Ionic liquids as thermal fluids.* Thomas Schubert. IoliTech

16:30h- *Electrical conductivity in pure and mixed ILs.* Oscar Cabeza. UDC

17:00h- Coffee break

17:30h- *Viscosity and density of ILs under pressure.* Xavier Paredes. USC

18:00h- *Thermal properties of ILs.* Jacobo Troncoso. UVigo

18:30h- *Optical properties of ILs.* Elena López. USC



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TUESDAY, JUNE 11

SESSION 3: THEORY AND SIMULATION IN ILs

Chairman: Luis Miguel Varela

10:00h- *Interfacial effects in ionic liquids.*

[Maxim V. Fedorov](#). University of Strathclyde. Glasgow

11:00h- *MD simulations of ILs/lithium salts mixtures confined between graphene walls.*

[Trinidad Méndez](#). USC

11:30h- Coffee break

12:00h- *Ionic liquids under confinement: a comparative Monte Carlo and molecular dynamics study.* [Martín Pérez](#). UVigo

12:30h- *Application of group contribution schemes to thermophysical characterization of ILs: recent advances and possible trends.* [Manuel M. Piñeiro](#). UVigo

13:30h- Lunch

SESSION 4: APPLICATION OF ILs IN ORGANIC SYNTHESIS, TOXICITY AND BIODEGRADABILITY

Chairwoman: Emilia Tojo

15:30h- *Toxicity and biodegradability of ILs.* [Stefan Stolte](#). University of Bremen

16:30h- *Application of ILs as solvents and catalyzers in organic synthesis.* [Miguel Vilas](#). UVigo

17:00h- Coffee break

17:30h- *Ionic liquid-supported organic synthesis.* [Yagamare Fall](#). UVigo

18:00h- *ILs and microwave assisted chemistry.* [Julio Seijas](#). USC

18:30h- *Effect of ILs on the histological organization of fishes.*

[Encarnación de Miguel](#). UVigo



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WEDNESDAY, JUNE 12

SESSION 5: INDUSTRIAL APPLICATIONS OF ILS

Chairwoman: Ana Soto

09:30h- *Ionanofluids – a great scientific and technological challenge.*

[C.A. Nieto de Castro. Universidade de Lisboa](#)

10:30h- *ILs as lubricants and oil additives.* [Josefa Fernández. USC](#)

11:00h- Coffee break

11:30h- *Ionic liquids at the core of the biorefineries.*

[Héctor Rodríguez. USC](#)

12:00h- *Elimination / abatement of persistent micropollutants using ILs.* [Moisés Canle. UDC](#)

12:30h- *Application of ILs in the nuclear industry.* [Faustino Gómez. USC](#)

13:00h- *Ionic liquids as absorbents for heat pumps of high performance: thermophysical characterization and modelling.* [Josefa García. UVigo](#)

13:30h- Conclusions and closing remarks

14:30h- Lunch



POSTERS

P1. *Study of ionic liquids as potential absorbents of refrigerants type alkanols*

Moisés Ríos Currás. [Universidade de Vigo](#)

P2. *Thermal properties of magnetic ionic liquids (MILs)*

Esther Santos Santamaría. [Universidad de Cantabria](#)

P3. *Solubilities, partition coefficients and surfactant properties of ionic liquids based on active pharmaceutical ingredients*

Catarina Isabel Santos Florindo. [Universidade Nova de Lisboa](#)

P4. *Liquid-liquid equilibria of perfluorocompounds with fluorinated ionic liquids*

Susana Antunes Martinho. [Universidade Nova de Lisboa](#)

P5. *Ionic liquids based aqueous biphasic systems for improved detection of Bisphenol A in Human fluids*

Helena Passos. [Universidade de Aveiro](#)

P6. *Ionic liquid technology for carbon monoxide/nitrogen separation: achievements and future challenges*

Gabriel Zarca Lago. [Universidad de Cantabria](#)

P7. *Protic ionic liquids as electrolyte membranes for fuel cells under non-humidified conditions*

Mariana Díaz Vejo. [Universidad de Cantabria](#)

P8. *Water-borne pressure sensitive adhesives based on renewable protic ionic liquids*

Ana Margarida Conde Fernandes. [Universidad del País Vasco](#)

P9. *Heat capacities at 298.15 K of 1-alkyl-3-methylimidazolium hexafluorophosphate series*

Ana I. M. C. Lobo Ferreira. [Universidade do Porto](#)

P10. *Heat capacities of benzyl-imidazolium based ionic liquids*

Filipe Miguel da Silva Ribeiro. [Universidade do Porto](#)

P11. *n-, iso-alkyl isomerization effect on the thermophysical properties of ionic liquids*

Ana Sofia Moreira Conde Rodrigues. [Universidade do Porto](#)

P12. *Design, construction and test of a new ramsay-young ebulliometer: volatility of protic ionic liquids*

Inês Catarina Moreira Vaz. [Universidade do Porto](#)



- P13. *Physical properties of the binary system $[C_2mim][OAc]+EtOH$*
María del Carmen Castro Valiña. Universidade de Santiago de Compostela
- P14. *Thermal characterization of deep eutectic solvents*
Jara García Santaclara. Universidade de Santiago de Compostela
- P15. *Extractive and oxidative-extractive desulfurization of fuels with ionic liquids*
Borja Rodríguez Cabo. Universidade de Santiago de Compostela
- P16. *Combined physical-chemical absorption of CO_2 in a mixture of ionic liquids*
Alicia Pinto Castillo. Universidade de Santiago de Compostela
- P17. *Trihexyl(tetradecyl)phosphonium ionic liquids as surfactants for enhanced oil recovery: phase behavior and physical properties.*
Iago Rodríguez Palmeiro. Universidade de Santiago de Compostela
- P18. *Phosphonium based ionic liquids*
Elio Resúa del Río. Universidade de Santiago de Compostela
- P19. *Phase behavior of ionic liquid surfactant-dodecane-water ternary system*
Iria Rodríguez Escontrela. Universidade de Santiago de Compostela
- P20. *Dicationic ionic liquid: insight in the electrical double layer structure at mercury, glassy carbon and gold surfaces*
Renata Barros da Costa. Universidade do Porto
- P21. *Influence of nanoparticle concentration on the physical properties of $AgI/[P_{6,6,6,14}]Cl$ ionic liquids*
Adrián Sánchez Fernández. Universidade de Santiago de Compostela
- P22. *Lipase purification control using ionic liquids as an adjuvant in aqueous biphasic systems*
Ranyere Lucena de Souza. Universidade Tiradentes
- P23. *Towards the sustainable design of ionic liquids: the impact of structural isomerism on their ecotoxicity*
Tânia Ereira Sintra. Universidade de Aveiro
- P24. *Ionic liquid eutectic mixtures*
Guilherme José Maximo. Universidade de Aveiro
- P25. *Effect of the structure on the solubility of benzene in ionic liquids*
Patricia Fernández Requejo. Universidade de Vigo



- P26. *Study of the cation effect in the extraction of ethanol from hexane employing bis(trifluoromethylsulfonyl)imide based ionic liquids*
Nuria Martínez Aranda. [Universidade de Vigo](#)
- P27. *Microwave assisted synthesis of allyl and propargyl imidazoliums*
M. Pilar Vázquez Tato. [Universidade de Santiago de Compostela](#)
- P28. *Application of ionic liquids in supercapacitors*
Girum Ayalneh Tiruye. [IMDEA Energy](#)
- P29. *Interionic forces and structures of ionic liquids in ion pairs and small clusters*
Ceila Fong Padrón. [Universidade de Santiago de Compostela](#)
- P30. *Measurement of the thermal conductivity in ionic liquids*
Montserrat Domínguez Pérez. [Universidade da Coruña](#)
- P31. *A novel conduction calorimeter for high pressure measurements*
Adrián González Rodríguez. [Universidade de Vigo](#)
- P32. *Tribological behaviour of tris(pentafluoroethyl)trifluorophosphate anion based ionic liquids as lubricants*
Inés Otero Fernández; Enriqueta R. López Iglesias. [Universidade de Santiago de Compostela](#)
- P33. *Pressure and temperature dependence on viscosity of 1-butyl-1-methylpyrrolidinium salts*
Félix Mariño Gaciño. [Universidade de Santiago de Compostela](#)
- P34. *Measurement of non-linear optical response of ionic liquids with a high-repetition-rate femtosecond laser*
Cristina López López; José Antonio Novoa López. Enrique Velázquez Rodríguez. [Universidade de Vigo](#)
- P35. *Liquid-Liquid extraction of aromatic/alkane using 1-butyl-1-methylpyrrolidinium bis(trifluoromethylsulfonyl)imide as solvent*
Ángeles Domínguez Santiago. [Universidade de Vigo](#)
- P36. *Ionanofluids with nanosystems: alternative fluids for heat engineering applications*
Filipe André Gomes do Reis Pimentel. [Universidade de Lisboa](#)
- P37. *Iobiofluids: a natural nano energy saving solution*
Carla Sofia G.P. Queirós. [Universidade de Lisboa](#)
- P38. *Evaluation of thermal degradation of an imidazolium ionic liquid*
Tamara Teixeira; Josefa Salgado; María Villanueva. [Universidade de Santiago de Compostela](#)



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P39. *Aqueous biphasic systems composed of polymers and salts: effect of ionic liquids through their phase diagrams*

Ana Mafalda Rodrigues Almeida. [Universidade de Aveiro](#)

P40. *Catalytic conversion of biomass-derived carbohydrates into γ -valerolactone in ionic liquids*

Dario Paolichi. [Technical University of Denmark](#)

P41. *1-methyl-1-propylpyrrolidinium bis(trifluoromethylsulfonyl)imide ionic liquids for the extraction of methanol and ethanol from heptane*

Begoña González de Prado. [Universidade de Vigo](#)

P42. *Ionic liquids in solid state are crystals*

Esther Rilo Siso. [Universidade da Coruña](#)

P43. *Influence of the experimental conditions in the determination of thermal stability of two NTf_2 ionic liquids*

María Villanueva López; Josefa Salgado Carballo. [Universidade de Santiago de Compostela](#)

Posters must be placed in their panels on Monday June 10 and they will be retired on Wednesday, June 12. They will be discussed during coffee breaks.