

SUNDAY AFTERNOON

Section A

Javits Convention Center

Ionic Liquids: Progress and Prospects (sponsored by Green Chemistry & Engineering and Separation Science & Technology Subdivisions)

Physical/Thermo Properties

Cosponsored with ENVR, and PETR

L. P. N. Rebelo, *Presiding*

R. D. Rogers, K. R. Seddon, and L. P. N. Rebelo, *Organizers*

1:30 — Introductory Remarks.

1:35 —**9.** Thermodynamic properties of mixtures containing ionic liquids. **S. P. Verevkin**, A. Heintz, T. V. Vasiltsova

1:50 —**10.** Phase behavior and thermodynamic properties of ionic liquids, ionic liquid mixtures, and ionic liquid solutions. **L. P. N. Rebelo**, V. Najdanovic-Visak, R. Gomes de Azevedo, J. M. Esperança, M. Nunes da Ponte, H. J. Guedes, Z. P. Visak, H. C. de Sousa, J. Szydłowski, J. N. Canongia Lopes

2:10 —**11.** Phase equilibria (SLE, LLE) of N,N-dialkylimidazolium hexafluorophosphate or chloride. **U. Domanska-Zelazna**

2:30 —**12.** Criticality in C₄mimBF₄ + water mixture. **C. A. Cerdeirina**, J. Troncoso, L. Romani, V. Najdanovic-Visak, J. M. S. S. Esperança, L. P. N. Rebelo

2:40 —**13.** Surface tension of ionic liquids. T. Cordeiro, **E. J. M. Filipe**, J. M. S. S. Esperança, H. J. R. Guedes, K. R. Seddon

2:50 —**14.** Physical property measurements and a comprehensive data retrieval system for ionic liquids. **J. W. Magee**, G. J. Kabo, M. Frenkel

3:05 — Intermission.

3:20 —**15.** Phase behavior of mixtures containing ionic liquids. S. N. V. K. Aki, J. L. Anthony, J. M. Crosthwaite, A. M. Scurto, **J. F. Brennecke**

3:40 —**16.** Multiphase equilibrium in mixtures of [C₄mim][PF₆] with supercritical carbon dioxide, water and ethanol: applications in catalysis. V. Najdanovic-Visak, A. Serbanovic, J. M. Esperança, H. J. Guedes, L. P. N. Rebelo, **M. Nunes da Ponte**

3:55 —**17.** Effects of ionic liquid structure on gas solubilities. **J. L. Anthony**, C. Cadena, E. J. Maginn, J. F. Brennecke

4:10 —**18.** Interactions of gases with ionic liquids: Experimental approach. **M. F. Costa Gomes**, P. Husson, J. Jacquemin, V. Majer

4:20 —19. Interactions of gases with ionic liquids: Molecular simulation. **A. A. H. Pádua**, J. Deschamps

4:30 —20. Modeling ionic liquids using an extended OPLS-AA force field. **J. N. A. Canongia Lopes**, A. A. H. Pádua, J. Deschamps

4:45 —21. Molecular modeling of the thermodynamic and transport properties of ionic liquids. **E. J. Maginn**

5:00 —22. Force field development and liquid state simulations on ionic liquids. **H. Stassen**, E. S. Böes, J. de Andrade