

TUESDAY MORNING

Section A

Javits Convention Center

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

Separations

Cosponsored with ENVR, and PETR

B. Tumas, *Presiding*

R. D. Rogers, K. R. Seddon, and B. Tumas, *Organizers*

8:00 — Introductory Remarks.

8:05 —**66.** Coordination chemistry and electrochemical behavior of actinide and transition metal complexes in room temperature ionic liquids. **W. J. Oldham**, D. B. Williams, M. E. Stoll, B. L. Scott, D. A. Costa

8:25 —**67.** Novel separation processes based on unique solvation properties of ionic liquids. **S. Dai**, H. Luo, P. V. Bonnesen, A. C. Buchanan III

8:45 —**68.** Metal ion extraction by crown ethers in ionic liquids. **R. A. Bartsch**, K. Surowiec, S. Li, S. V. Dzyuba

9:05 —**69.** Application of task specific ionic liquids (TSILs) in the acid gas separation processes of supported ionic liquid membranes (SILMs) and electrochemical modulated complexation (EMC). **P. Scovazzo**, D. Morgan, R. D. Noble, C. Koval, J. H. Davis Jr.

9:25 —**70.** Abraham solvent parameters for ionic liquid/organic two-phase systems. **W. M. Reichert**, J. G. Huddleston, J. D. Holbrey, R. D. Rogers

9:45 — Intermission.

10:00 —**71.** The road to partition: Mechanisms of metal ion transfer into ionic liquids (ILs) and their implications for the application of ILs as extraction solvents. **M. L. Dietz**, J. A. Dzielawa, M. P. Jensen, J. V. Beitz, M. Borkowski

10:20 —**72.** Application of novel oxime-derivatized task-specific ionic liquid for the solvent extraction of copper. **P. M. Smith**, K. A. Krone

10:40 —**73.** Ionic liquids: Fundamental research and applied technology. **T. M. McCleskey**, A. K. Burrell, G. A. Baker, S. N. Baker

11:00 —74. Opportunities for membrane processing using ionic liquids. **J. G. Crespo**, T. Schaefer, P. Izak, R. Fortunato, L. Branco, C. A. M. Afonso

11:20 —75. Analytical studies using ionic liquids. **I. M. Warner**, S. M. Mwongela, B. Cedillo-Valle, R. A. Agbaria

11:40 —76. Stripping metal ions from ionic liquids with supercritical fluid carbon dioxide. **C. M. Wai**