

TUESDAY AFTERNOON

Section A

Javits Convention Center

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

Novel Applications

Cosponsored with ENVR, and PETR

R. A. Mantz and P. C. Trulove, *Presiding*

R. D. Rogers, K. R. Seddon, P. C. Trulove, and R. A. Mantz, *Organizers*

1:15 — Introductory Remarks.

1:20 —**83.** Ionic liquids by proton transfer, ΔpK_a , and the ionic liquid fuel cell. M. Yoshizawa, J. Belieres, W. Xu, **C. A. Angell**

1:45 —**84.** Photolytic destruction of organic compounds in room temperature ionic liquids. Q. Yang, **D. D. Dionysiou**

2:10 —**85.** New ionic liquids. **G. W. Drake**, T. W. Hawkins, K. Tollison, L. Hall, G. Kaplan, A. Vij

2:35 —**86.** Ionic liquids as sources of heavy-ion beams for electrical propulsion. **J. Fernandez de la Mora**

3:00 — Intermission.

3:10 —**87.** Surface chemistry and tribological behavior of ionic liquid boundary lubrication additives in water. **J. S. Zabinski**, B. S. Phillips, R. A. Mantz, P. C. Trulove

3:35 —**88.** Nonlinear optical ionic liquids. **J. S. Wilkes**, R. E. Del Sesto, F. Ghebremichael, N. E. Heimer, D. S. Dudis, A. T. Yeates

4:00 —**89.** Application of trialkyl-imidazolium ionic liquids and salts to the preparation of polymer clay nanocomposites. **P. C. Trulove**, W. Awad, J. W. Gilman, R. D. Davis, T. E. Sutto, D. M. Fox, P. H. Maupin, H. C. De Long

4:25 —**90.** Ionic liquids as green solvents: Engineering new bio-based materials. **R. P. Swatloski**, J. D. Holbrey, S. K. Spear, R. D. Rogers