

## MONDAY AFTERNOON

Section A

Javits Convention Center

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

#### **Spectroscopy**

*Cosponsored with ENVR, and PETR*

S. Pandey, *Presiding*

R. D. Rogers, K. R. Seddon, and S. Pandey, *Organizers*

**1:20** — Introductory Remarks.

**1:25 —50.** Applications of vibrational spectroscopy to ionic liquids. **S. G. Kazarian**, N. I. Sakellarios

**1:45 —51.** X-ray and Raman spectroscopic studies of the structure of [bmim]X, where X=Cl, BF<sub>4</sub>, PF<sub>6</sub>. **H. Hamaguchi**, R. Ozawa, S. Hayashi, S. Saha

**2:05 —52.** Near-Infrared spectroscopic investigations of water absorption by room-temperature ionic liquids. **C. D. Tran**, S. D. P. Lacerda, D. Oliveira

**2:25 —53.** Electronic spectroscopy of rhenium dioxo complexes within ionic liquids. **R. E. Da Re**, S. N. Baker, G. A. Baker, D. E. Morris, D. A. Costa

**2:45 —54.** Solute dynamics in room temperature ionic liquids. **F. V. Bright**

**3:05** — Intermission.

**3:15 —55.** Rate constants for solvent displacement from [C<sub>6</sub>H<sub>6</sub>Cr(CO)<sub>2</sub>Solv] complexes; ionic liquids compared to conventional solvents. **A. J. McLean**, K. Swiderski, D. H. Vaughan, C. M. Gordon

**3:35 —56.** Investigation of the structure of ionic liquids and their interactions with water by nuclear Overhauser effect. **A. Mele**, C. D. Tran, S. D. P. Lacerda

**3:55 —57.** Nanocomposite design & biomimetic approaches using ionic liquids. **S. N. Baker**, G. A. Baker, R. E. Da Re, T. M. McCleskey

**4:15 —58.** Spectroscopic studies of biomolecular stability and activity in ionic liquids. **G. A. Baker**, S. N. Baker, R. E. Da Re, T. M. McCleskey

**4:35 —59.** Molecularly organized assemblies within room-temperature ionic liquid-based solutions? **S. Pandey**, K. A. Fletcher

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**Poster Session Discussion**

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**5:00** — Poster Author Introductions.