

SUNDAY MORNING

Section A

Javits Convention Center

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

Fuels & Applications

Cosponsored with ENVR, and PETR

J. H. Davis Jr., *Presiding*

R. D. Rogers, K. R. Seddon, and J. H. Davis Jr., *Organizers*

8:15 — Introductory Remarks.

8:20 —**1.** Deep desulphurization of fuels by extraction with ionic liquids. **A. Jess**

8:45 —**2.** Ionic liquids as alternatives to organic solvents in liquid-liquid extraction of aromatics. **G. W. Meindersma**, A. Podt, M. Gutiérrez Meseguer, A. B. De Haan

9:10 —**3.** Use of ionic liquids in oil shale processing. **M. Koel**

9:35 —**4.** Ionic liquid "polarity" effects on chemical reactions. **T. Welton**, N. L. Lancaster, L. Crowhurst, J. M. Perez-Arlandis

10:00 — Intermission.

10:15 —**5.** Biphasic hydroformylation catalysis in ionic liquid media. **C. P. Mehnert**, R. A. Cook, N. C. Dispenziere

10:40 —**6.** Predicting infinite dilution activity coefficients of organic solutes in ionic liquids using quantitative structure-property relationships. **D. M. Eike**, J. F. Brennecke, E. J. Maginn

11:05 —**7.** New task-specific ionic liquids (TSIL) in separations of petrochemical relevance. **J. H. Davis Jr.**, M. Tickell, P. A. Fox, I. Ntai

11:30 —**8.** Adiponitrile synthesis in room temperature ionic liquids. **C. Vallée**, Y. Chauvin, J. Galland, G. Niccolai, J. Basset

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. Esperanca, 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

SUNDAY EVENING

Section A

Javits Convention Center

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

Experience Based Tutorials; Question & Answer Session

Cosponsored with ENVR, and PETR

R. D. Rogers, K. R. Seddon, J. F. Brennecke, T. Welton, and J. D. Holbrey, *Organizers, Presiding*

7:30 —33. Getting started with Ionic Liquids: An experience-based tutorial. **J. D. Holbrey**, R. P. Swatloski, W. M. Reichert, J. F. Brennecke, K. R. Seddon, U. Hakala, M. Deetlefs, M. Nieuwenhuyzen, T. Welton, P. Mawdsley, J. Vallance, O. Sheppard, R. D. Rogers

8:30 — Panel Discussion.

MONDAY MORNING

Section A

Javits Convention Center

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

Catalysis/Synthesis

Cosponsored with ENVR, and PETR

P. Wasserscheid, Presiding

R. D. Rogers, K. R. Seddon, and P. Wasserscheid, Organizers

8:00 — Introductory Remarks.

8:05 —**34.** Imidazolium-2-carboxylates: Versatile intermediates for the synthesis of ionic liquids and ligands. **I. Tkatchenko**, E. Bouajila, D. Poinso, I. Tommasi

8:25 —**35.** Catalysis in ionic liquids: towards the detection of reactive intermediates. **R. Giernoth**

8:45 —**36.** Green chemistry: Halide ionic liquids in action. **R. X. Ren**

9:05 —**37.** Developments of ionic liquids applications for ATOFINA processes. **P. Bonnet**

9:25 —**38.** Recyclable catalysts and reagents using ionic liquids based on biorenewable materials. **S. T. Handy**

9:45 — Intermission.

10:00 —**39.** New catalysts for hydroamination reactions: Transition metal complexes in supported ionic liquids. **T. E. Müller**

10:20 —**40.** Ionic liquids at Degussa: Catalyst heterogenization in an industrial process. **B. Weyershausen**, K. Hell, U. Hesse

10:40 —**41.** New synthetic routes, scale-up and technical applications of the ECOENGTM-family. **M. Wagner**, M. Uerdingen, R. van Hal, P. Wasserscheid

11:00 —**42.** Supported ionic liquid phase (SILP) catalysis: Heterogenization of homogeneous catalysts. **A. Riisager**, R. Fehrmann, R. van Hal, P. Wasserscheid

11:20 —**43.** New, functionalized ionic liquids from Michael-type reactions: A chance for combinatorial ionic liquid development. **P. Wasserscheid**, B. Drießen-Hölscher, R. van Hal, C. Steffens

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, BF₄, PF₆. **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 [C₆H₆Cr(CO)₂Solv] 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

5:00 — Poster Author Introductions.

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. Mwangela, B. Cedillo-Valle, R. A. Agbaria

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

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

TUESDAY EVENING

Section B

Javits Convention Center

Industrial and Engineering Chemistry Posters

Ionic Liquids: Progress and Prospects

R. D. Rogers, *Organizer, Presiding*

5:00 - 7:00

127. 1-Alkyl-3-methyl-imidazole hexafluorophosphate water immiscible ionic liquids as reservoirs for controlled release of drugs. **V. Jaitely**, A. T. Florence

128. Development of Ionic Liquids containing environmentally acceptable and sustainable components. **J. D. Holbrey**, W. M. Reichert, M. B. Turner, K. Green, R. D. Rogers

129. X-Ray crystallography of novel ionic liquids based on N-alkylmorpholinium salts. **R. P. Swatloski**, R. D. Rogers, C. R. Lea, I. A. Miller, D. M. Brown

130. Synthesis, characterization, and applications of new hydroxyl-appended ionic liquids. J. D. Holbrey, **M. B. Turner**, W. M. Reichert, R. D. Rogers

131. Formation of aqueous biphasic systems with hydrophilic ionic liquids via the addition of water-structuring salts: applications to nuclear tank wastes. **K. E. Gutowski**, G. A. Broker, N. J. Bridges, J. G. Huddleston, H. D. Willauer, J. D. Holbrey, R. D. Rogers

132. Relationships between solid-state ion-ion and hydrogen-bonding interactions and liquid properties in ionic liquid forming salts. **W. M. Reichert**, J. D. Holbrey, R. D. Rogers

133. New applications of ionic liquids: Task-specific ionic liquids (TSIL) as alternatives to functionalized resins as scavengers for solution phase synthesis. **J. H. Davis Jr.**, P. A. Fox, M. Tickell

134. New applications of ionic liquids: Preparation of functionalized resins by ion exchange with task-specific ionic liquids. J. H. Davis Jr., **P. A. Fox**, M. Tickell

135. Thioether, sulfoxide and sulfone-incorporating task-specific ionic liquids. J. H. Davis Jr., **M. Tickell**, P. A. Fox

136. Densities of ionic liquids as a function of temperature. **D. G. Hert**, S. N. V. K. Aki, J. F. Brennecke

137. Solvent strength of the ionic liquids/carbon dioxide mixtures. C. P. Fredlake, **S. N. V. K. Aki**, T. Welton, J. F. Brennecke

138. Enthalpy change determination of BMIC using DTA. **M. Zhang**, V. Kamavaram, R. G. Reddy

139. Catalysis in environmentally friendly solvents. **S. K. Kandola**, D. L. Davies

140. Zwitterionic-liquid-in-polymer electrolytes. **M. Yoshizawa**, M. Tamada, H. Ohno

- 141.** Catalytic indium-mediated allylation reactions in ionic liquids. **C. M. Gordon, C. Ritchie**
- 142.** Density functional theory study of the influences of N-1-butylpyridinium and chloroaluminate ratios upon the rates and endo/exo selectivity of the Diels-Alder reaction. **A. M. Waligorski, O. Acevedo, J. D. Evanseck**
- 143.** Electrochemical synthesis in ionic liquids. M. A. Matthews, J. W. Weidner, **I. M. AlNashef**
- 144.** Ionic liquids with alkoxymethyl substituent - synthesis and properties. **J. Pernak, J. Stopa, A. M. Pernak**
- 145.** Liquid ionic phosphates (LIPs) and polyammonium ionic liquid sulfonamides (PILS) - diffusion coefficient and pulse radiolysis characteristics. **S. I. Lall-Ramnarine, P. Tavares, A. Scumpia, R. Ragbir, R. Ramkirath, S. Gustave, S. G. Greenbaum, J. F. Wishart, R. Engel**
- 146.** Liquid ionic phosphates (LIPs) and polyammonium ionic liquid sulfonamides (PILS) - electrochemical and conductivity properties. **P. Tavares, R. Ragbir, S. I. Lall-Ramnarine, A. Scumpia, R. Ramkirath, R. Engel**
- 147.** Liquid ionic phosphates (LIPs) and polyammonium ionic liquid sulfonamides (PILS) - Synthesis, solubility and spectral characteristics. **A. Scumpia, R. Ramkirath, P. Tavares, R. Ragbir, S. I. Lall-Ramnarine, R. Engel**
- 148.** Imidazolium-based zinc complexes for the coupling reactions of CO₂ and epoxides. **H. S. Kim, J. J. Kim, B. G. Lee, H. Kim**

WEDNESDAY MORNING

Section A

Javits Convention Center

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

Novel Applications: Polymers & Gels

Cosponsored with ENVR, and PETR

M. Watanabe and H. Ohno, *Presiding*

R. D. Rogers, K. R. Seddon, H. Ohno, and M. Watanabe, *Organizers*

8:15 — Introductory Remarks.

8:20 —**149.** Charge transfer polymerization of acrylic monomers in ionic liquid solvents. **D. R. MacFarlane**, R. Vijayaraghavan

8:50 —**150.** In situ multi nuclei NMR spectroscopy studies of polymerization process of styrene and MMA in ionic liquid mediate. **M. M. Guo**

9:20 —**151.** Ionic liquids and ion gels as new electrolytes for electrochemical systems. **M. Watanabe**

9:50 — Intermission.

10:05 —**152.** Zwitterionic liquids as non-volatile and non-migrate solvents under potential gradient. **M. Yoshizawa**, A. Narita, H. Ohno

10:35 —**153.** Enhanced ion dissociation in polyelectrolyte gel electrolytes. **M. Forsyth**, D. R. MacFarlane, J. M. Pringle, C. Tiyapiboonchaiya, N. Byrne

11:05 —**154.** Preparation and properties of polymerized ionic liquids as film electrolytes. **H. Ohno**, **M. Yoshizawa**

WEDNESDAY AFTERNOON

Section A

Javits Convention Center

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

Electrochemistry

Cosponsored with ENVR, and PETR

D. R. MacFarlane, *Presiding*

R. D. Rogers, K. R. Seddon, and D. R. MacFarlane, *Organizers*

1:30 — Introductory Remarks.

1:35 —**163.** Photovoltaic applications of ionic liquids. **S. M. Zakeeruddin**

1:55 —**164.** Issues affecting the use of ionic liquids in lithium-ion batteries. **A. S. Best**, H. Landheer, F. G. B. Ooms, P. C. Howlett, D. R. MacFarlane, J. Schoonman

2:15 —**165.** Ionic liquids: Solvents for electrochemical nanotechnology. **F. Endres**

2:35 —**166.** High lithium metal cycling efficiency in a room temperature ionic liquid. **P. C. Howlett**, D. R. MacFarlane, A. F. Hollenkamp, M. Forsyth

2:55 —**167.** Bronsted acid-base ionic liquids as fuel cell electrolytes under non-humidifying conditions. **M. Watanabe**

3:15 — Intermission.

3:30 —**168.** Performance-enhancing electrolytes: The impact of ionic liquids on artificial muscle development. **G. G. Wallace**

3:50 —**169.** Electrochemical polymerisation of polypyrrole in ionic liquids. **J. M. Pringle**, J. Efthimiadis, P. Howlett, G. G. Wallace, J. Efthimiadis, D. R. MacFarlane, M. Forsyth

4:10 —**170.** Property of ionic liquids and additions for deposition: Performance pertaining to their viability. **P. Meakin**, J. Zhang, A. Bond, I. Burgar

4:30 —**171.** Electrochemical synthesis in 1-butyl-2, 3-dimethylimidazolium hexafluorophosphate. **M. A. Matthews**, J. W. Weidner, I. M. AlNashef

4:50 —**172.** Redox chemistry of polyoxometalates in ionic liquids. M. Chiang, J. A. Dzielawa, M. L. Dietz, **M. R. Antonio**

THURSDAY MORNING

Section A

Javits Convention Center

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

Inorganic/Materials

Cosponsored with ENVR, and PETR

M. Deetlefs and J. D. Holbrey, *Presiding*

R. D. Rogers, K. R. Seddon, J. D. Holbrey, and M. Deetlefs, *Organizers*

8:00 — Introductory Remarks.

8:05 —**181.** Refractive indices of ionic liquids. **M. M. Shara**, M. Deetlefs, K. R. Seddon

8:30 —**182.** Halide determination in ionic liquids. **C. Hardacre**, M. Deetlefs, W. R. Pitner, C. Villagran

8:55 —**183.** Structure and dynamics of ionic liquids. **C. M. Gordon**, A. Triolo

9:20 —**184.** Thermotropic-lyotropic, saturated, ionic liquid crystals. H. Chen, G. A. Nagana Gowda, C. L. Khetrapal, D. J. Abdallah, **R. G. Weiss**

9:45 — Intermission.

10:00 —**185.** Nanostructured materials based on room-temperature ionic liquids. **M. A. Firestone**, A. Wolf, J. Dzielawa, S. Seifert, M. L. Dietz

10:25 —**186.** Structural investigation of $[C_n\text{mim}]_2[\{(UO_2)(NO_3)_2\}_2(\mu_4-C_2O_4)]$ and $[C_n\text{mim}][{(UO_2)(NO_3)_3}]$ complexes. **M. Nieuwenhuyzen**, A. E. Bradley, C. Hardacre, W. R. Pitner, R. C. Thied, K. R. Seddon, D. Sanders

10:50 —**187.** Eu(III) luminescence spectroscopy in 1-methyl-3-butylimidazolium bistriflimide. **C. Gaillard**, I. Billard, S. Mekki, G. Moutiers, C. Mariet, A. Labet, P. Hesemann, J. Bünzli

11:15 —**188.** Metal ion transfer into room-temperature ionic liquids: The role of anionic complexes. **M. Jensen**, J. Neufeind, J. V. Beitz, S. Skanthakumar, L. Soderholm

11:40 —**189.** Ruthenium and uranium halide complexes in ionic liquids. **M. Deetlefs**, D. Appleby, P. A. Barnard, C. A. Bowlas, P. B. Hitchcock, C. L. Hussey, T. J. Mohammed, T. A. Ryan, K. R. Seddon, J. E. Turp, E. H. Ward, J. A. Zora

THURSDAY AFTERNOON

Section A

Javits Convention Center

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

General Contributions

Cosponsored with ENVR, and PETR

R. D. Rogers and K. R. Seddon, *Organizers, Presiding*

1:15 — Introductory Remarks.

1:20 —190. Cellulose films regenerated from ILs and their role as scaffolding for enzyme attachment via glutaraldehyde. **M. B. Turner**, S. K. Spear, R. P. Swatloski, J. D. Holbrey, R. D. Rogers

1:35 —191. Investigations on the stability and aggregate formation of an ionic liquid. **S. Dorbritz**, W. Ruth, U. Kragl

1:50 —192. Ionic liquids: Highly effective medium for enantiopure amino acid esters via enzymatic resolution. **S. V. Malhotra**, H. Zhao

2:05 —193. Highly enantioselective asymmetric catalysis in ionic liquids. **W. Lin**, H. L. Ngo, A. Hu

2:20 —194. Density functional investigation of ionic liquid cation-anion ratios in the catalysis of Diels-Alder reactions. **O. Acevedo**, J. D. Evanscek

2:35 —195. Dialkyl imidazolium benzoates – room temperature ionic liquids useful in the peracetylation and perbenzoylation of simple and sulfated saccharides. **S. Murugesan**, N. Karst, R. J. Linhardt

2:50 —196. Reactivity of solvated and pre-solvated electrons in alkylammonium bistriflylimide ionic liquids. **A. M. Funston**, J. F. Wishart, P. Neta, S. I. Lall, R. Engel, J. F. Brennecke

3:05 — Intermission.

3:15 —197. Liquid-liquid equilibria of imidazolium-based ionic liquids and alcohols. **J. M. Crosthwaite**, S. N. V. K. Aki, E. J. Maginn, J. F. Brennecke

3:30 —198. Physicochemical properties of ionic liquids used in aluminum electrorefining at low temperatures. **V. Kamavaram**, R. G. Reddy

3:45 —199. Monte Carlo simulations of gas solubility in ionic liquids. **J. K. Shah**, J. L. Anthony, T. I. Morrow, J. F. Brennecke, E. J. Maginn

4:00 —200. Short-time local dynamics of ionic liquids: Neutron scattering and Molecular Dynamics simulations. **T. I. Morrow**, E. J. Maginn

4:15 —201. Solvation phenomena in ionic liquids. **M. N. Kobra**

4:30 —202. Control of the phase-boundary potential across the interface between room-temperature molten salt

and water. **T. Kakiuchi**, N. Tsujioka, F. Shigematsu

4:45 —203. Thermal and kinetic studies of tri-alkyl-imidizaolium salts. **D. M. Fox**, W. Awad, T. E. Sutto, J. W. Gilman, P. C. Trulove, H. C. De Long