

**Dr. Robin D. Rogers**  
**Canada Excellence Research Chair in Green Chemistry and Green Chemicals**  
**Editor, *Crystal Growth & Design***

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**Date of Birth:** March 4, 1957

**Schools Attended and Degrees:**

- 1975-1978: The University of Alabama, Tuscaloosa, AL; Chemistry Honors student; B.S. Degree in Chemistry (ACS); Summa Cum Laude.  
1978-1982: The University of Alabama, Tuscaloosa, AL; Ph.D. in Inorganic Chemistry; Research Advisor: Professor Jerry L. Atwood.

**Positions:**

- 1982-1987: Assistant Professor, Northern Illinois University, DeKalb, IL, USA  
1987-1994: Associate Professor, Northern Illinois University, DeKalb, IL, USA  
1994-1995: Professor, Northern Illinois University, DeKalb, IL, USA  
1995-1996: Presidential Research Professor, Northern Illinois University, DeKalb, IL, USA  
1996-2014: Professor, The University of Alabama, Tuscaloosa, AL, USA  
1998-2014: Director, The University of Alabama, Center for Green Manufacturing, Tuscaloosa, AL, USA  
2004-2014: Distinguished Research Professor, The University of Alabama, Tuscaloosa, AL, USA  
2005-2014: Robert Ramsay Chair of Chemistry, The University of Alabama, Tuscaloosa, AL, USA  
2007-2009: Chair of Green Chemistry, The Queen's University of Belfast, Belfast, Northern Ireland, United Kingdom  
2007-2009: Director, QUILL Research Centre, The Queen's University of Belfast, Belfast, Northern Ireland, United Kingdom  
2015-: Canada Excellence Research Chair in Green Chemistry and Green Chemicals, McGill University, Montreal, QC, Canada

**Adjunct, Honorary, and Visiting:**

- 1982 (summer): Visiting Assistant Professor, The University of Alabama, Tuscaloosa, AL  
1991-1998: Resident Associate Guest (91-92), Visiting Scientist (92-93), Faculty Appointee (93-97), Guest Appointee (97-98), Argonne National Laboratory, Argonne, IL  
1995-1996: Adjunct Professor, The University of Alabama, Tuscaloosa, AL  
1996-1997: Adjunct Professor, Northern Illinois University, DeKalb, IL  
2000 & 2006: Visiting Professor, Université Louis Pasteur, Strasbourg, France  
2004: Adjunct Professor, Polymer and Fiber Engineering, Auburn University, Auburn, AL  
2004: Adjunct Professor, Department of Biological Sciences, The University of Alabama, Tuscaloosa, AL  
2009-: Honorary Professor, Institute for Process Engineering, Chinese Academy of Sciences, Beijing, China  
2010: Visiting Professor for Senior International Scientists of the Chinese Academy of Sciences, Institute for Process Engineering, Beijing, China  
2014: Adjunct Professor, McGill University, Montreal, QC, Canada  
2015-: Adjunct Professor, The University of Alabama, Tuscaloosa, AL

### **Memberships and Offices in Societies:**

- Phi Beta Kappa; Sigma Xi, American Nuclear Society; American Crystallographic Association; American Institute of Chemical Engineers; Materials Research Society; American Association of Crystal Growth; Fellow of the American Association for the Advancement of Science; Fellow of the Royal Society of Chemistry; Chemical Institute of Canada; National Academy of Inventors.
- American Chemical Society: Rock River Local Section: Chairman Elect (Program Chairman), 1983-84; Chairman, 1984-86; Executive Committee, 1986-87; Secretary-Treasurer, 1988. Separation Science and Technology Subdivision (Industrial and Engineering Chemistry (I&EC)): Program Committee, 1992-2005; Executive Committee, 1993-2006; Vice Chair-Elect, 1993; Chair-Elect, 1994; Chair, 1995; Past-Chair, 1996. Practical Pollution Prevention Subdivision (I&EC): Co-Chair, 1998-99. Green Chemistry & Engineering Subdivision (I&EC): Program Committee, 2000-2006. I&EC Division: Program Committee, 1994-2002; Membership Committee (Academic Chemists Task Force Chair), 1996-2000; Executive Committee, 1995-2006; Program Secretary, 1995-98 ; Chair-Elect, 1998; Chair, 1999; Past-Chair, 2000; Parliamentarian, 2004-2006; I&EC Fellow, 2012. Committee on Science, 2004-06; Fellow of the American Chemical Society, 2009; Committee on Environmental Improvement, Associate 2010-2011; Member 2011-.

### **Advisory Boards:**

- Scientific Advisory Board, EIChroM Industries, Inc., Darien, IL, 1995-2000.
- The University of Alabama College of Arts and Sciences Leadership Board, 1997-2002.
- Technology Review Council, Environmental Technology Demonstration and Commercialization Center (ETDCC), Texas City, TX, 1998-2000.
- Scientific Advisory Board, U.S. Department of Energy Joint Bioenergy Institute, Berkeley, CA, 2010-
- Scientific Advisory Board, Alkermes, Inc., Waltham, MA, 2012.

### **Editorial Boards and Editorships:**

- *Journal of Crystallographic and Spectroscopic Research*: Editorial Board, 1989-93; Associate Editor, 1993
- *Journal of Chemical Crystallography*: Associate Editor, 1994-96; Editor, 1996-2000
- *Separation Science and Technology*: Associate Editor, 1996-99; Editorial Board 1999-
- *Crystal Engineering*: Founding Co-Editor, 1998-99
- *Industrial & Engineering Chemistry Research*: Editorial Board, 1999-2001
- *Journal of Chromatography, B*, Guest Editor, Volume 743 (1 + 2), 2000
- *Crystal Growth & Design*: Founding Editor-in-Chief, 2000-
- *Solvent Extraction and Ion Exchange*, Editorial Board, 2002-
- *Green Chemistry*, Advisory Board, 2002-
- *Chemical Communications*, Advisory Board, 2005-
- *Accounts of Chemical Research*, Guest Editor (with G. A. Voth), Special Issue on Ionic Liquids, Volume 40(11), 2007
- *ChemSusChem*, International Advisory Board, 2008-
- *Chemistry Letters*, Advisory Board, 2010-
- *Australian Journal of Chemistry*, Guest Editor (with K. R. Seddon), Research Front on Crystal Engineering, Volume 63(4), 2010
- *Separation Science & Technology*, Guest Editor (with H. Rodriguez and J. Chen), Special Issue on Ionic Liquids (2012).
- *Chemical Communications* Guest Editor (with D. MacFarlane and S. Zhang), Special Issue on Ionic Liquids (2012).
- *Science China – Chemistry* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Catalysis Today* Guest Editor (with S. Zhang), Special Issue on Ionic Liquids (2012).
- *Green Chemistry and Sustainable Technology*, Springer, Heidelberg, Germany, Book Series Editor (with L.-N. He, D. Su, P. Tundo, and Z. C. Zhang).
- *Chimica Oggi/Chemistry Today*, Scientific Advisory Board, 2014-
- *Green Energy & Environment*, Advisory Board, 2016-

### **National Academy of Sciences Committees:**

- National Academy of Sciences Board on Radioactive Waste Management Committee on Long Term Research Needs for High-Level Waste at Department of Energy Sites, 1999-2001.

- National Academy of Sciences Board on Radioactive Waste Management Committee on Risk-Based Approaches for Transuranic and High-Level Radioactive Waste, 2003-2005.
- National Academy of Sciences Board on Radioactive Waste Management Committee Development and Implementation of a Cleanup Technology Roadmap, 2007-2009.

#### Awards:

- Northern Illinois University Outstanding Faculty Advisor - 1993
- Northern Illinois University Presidential Research Professor – 1995
- American Chemical Society Newsmaker Award – 2001 (“ACS Newsmakers honored in Chicago,” *Chemical & Engineering News*, September 24, 2001, p 49.)
- The University of Alabama College of Arts & Sciences Leadership Board Fellow – 2002-2005
- The University of Alabama Burnum Distinguished Faculty Award – 2003.
- The University of Alabama Distinguished Research Professor – 2004
- The University of Alabama Robert Ramsay Chair of Chemistry - 2005
- 2005 Presidential Green Chemistry Challenge Award (Academic): “A Platform Strategy Utilizing Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials,” – 2005 (Ritter, S. K. “Green Success,” *Chemical & Engineering News*, June 27, 2005, pp 40-43.)
- Fellow of the Royal Society of Chemistry - 2006
- The University of Alabama Frederick Moody Blackmon – Sarah McCorkle Moody Outstanding Professor Award - 2009
- Fellow of the American Chemical Society – 2009
- Chinese Academy of Sciences Visiting Senior Scientist, Institute for Process Engineering, Beijing, China -2010
- American Chemical Society Award in Separations Science and Technology – 2011
- Fellow of the American Chemical Society Division of Industrial & Engineering Chemistry - 2012
- Fellow of the American Association for the Advancement of Science – 2012
- Paul Walden Award in Ionic Liquids, Presented by the German Science Foundation Priority Program on Ionic Liquids (SPP 1191) – 2013
- Thomson Reuters Highly Cited Researchers List 2014, 2015 (ranking among the top 1% most cited in chemistry).

#### Student Awards:

- Ann E. Visser: American Institute of Chemical Engineers Separations Division Graduate Student Award in Solvent Extraction – 2002
- Richard P. Swatloski: ACS Kenneth G. Hancock Memorial Student Award in Green Chemistry – 2003 (“2003 Hancock Award Honors Student Research,” *Chemical & Engineering News*, July 7, 2003, pp 67-68.)

#### Research Interest:

**Utilizing Ionic Liquids and Green Chemistry for Sustainable Technology Through Innovation.** Major thrusts include: **Materials:** Advanced polymeric and composite materials from biorenewables; **Separations:** Novel strategies for separation and purification of value added products from biomass; **Energy:** New lubricant technologies and selective separations; **Medicine/Agrochemicals/Nutraceuticals:** Elimination of waste while delivering improved performance and new applications of pharmaceuticals, agrochemicals, and nutraceuticals.

**Statistics:**

- A. Refereed Publications: > 760
- B. Citations; H-Index: > 35,000; 84
- C. Patents: 21 issued (plus numerous foreign equivalents); 26 submitted; 9 licensed
- D. Books Edited: 14
- E. Non-Refereed Reviews, Reports, and Articles: 75
- F. Meetings (Symposia) Organized: 33 (37)
- G. Presentations (including students and collaborators) before National and International Meetings: 897
- H. Presentations (including students and collaborators) before Regional Meetings: 119
- I. Seminars: 227
- J. PhD (thesis MS) degrees supervised: 27 (4)

**Financial Disclosure:**

Dr. Robin D. Rogers has partial ownership of 525 Solutions, Inc., Chitinality LLC, and Iolitec, Inc. in addition to financial interest in patents and patent applications through The University of Alabama.



## Meetings Organized:

- Chair, *23rd Great Lakes Regional American Chemical Society Meeting*, DeKalb, IL, 1990.
- Conference Chair, *11th International Conference on Partitioning in Aqueous Two-Phase Systems: The Expanding Boundaries of Aqueous Two-Phase Partitioning: Fundamentals and Applications of Environmentally-Benign Polymers in Biological, Industrial and Environmental Processes*, Gulf Shores, AL June 27-July 2, 1999. (Conference URL: <http://bama.ua.edu/~rdrogers/aq2phase/11thconf.html>.)
- Co-Director (with K. R. Seddon and S. Volkov), NATO Advanced Research Workshop: *Green Industrial Applications of Ionic Liquids*, Crete, Greece, April 12-16, 2000. (Conference URL: <http://bama.ua.edu/~rdrogers/NATO>.) (Highlighted in Freemantle, M. "Eyes On Ionic Liquids," *Chemical & Engineering News*, May 15, 2000, pp 37-50.)
- Organizer, *Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering*, Mobile, AL July 27-28, 2000. (Conference URL: <http://bama.ua.edu/~rdrogers/IOF/Mobile>.)
- Co-Vice Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Oxford, United Kingdom, September 8-13, 2002.
- Co-Chair (with A. S. Myerson, S. M. Reutzel-Edens, and R. J. Davey), ACS ProSpectives Series: *Polymorphism in Crystals: Fundamentals, Prediction, and Industrial Practice*, Tampa, FL, February 23-27, 2003.
- Co-Chair (with A. S. Myerson, and S. M. Reutzel-Edens), ACS ProSpectives Series: *Polymorphism in Crystals*, Tampa, FL, February 8-11, 2004.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2004 (Workshop URL: <http://www.bama.ua.edu/~rdrogers/ILWorkshop04/>).
- Co-Chair (with J. C. Warner), *Gordon Research Conference on Green Chemistry*, Bristol, RI, July 4-9, 2004 (Conference URL: <http://bama.ua.edu/~rdrogers/GreenChemistryGRC04>).
- U.S. Organizer, NSF Joint China-USA Workshop *Determining the Grand Challenges of Green Chemistry Development and Implementation*, Beijing, China, May 27-31, 2005.
- Organizer, EPA/Green Chemistry Institute Workshop *Incorporating Toxicology into the Design Criteria for New Ionic Liquids Synthesis*, Washington, DC, June 9-10, 2005.
- Program Chair, 2<sup>nd</sup> International Conference on Green and Sustainable Chemistry; 9<sup>th</sup> Annual Green Chemistry and Engineering Conference: *Taking Measure of Green Progress: Opportunities to Meet Global Challenges*, Washington, DC, June 20-24, 2005.
- Program Chair, *2005 Rare Earth Research Conference*, Keystone, CO, June 26-30, 2005.
- Co-Organizer (with D. A. Dixon), *Alabama Actinide Day*, April 6, 2005, Tuscaloosa, AL.
- Local Organizer, *Air Force Office of Scientific Research Ionic Liquids Research Workshop*, Tuscaloosa, AL, February 7-8, 2006.
- Organizer, *Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications*, Tuscaloosa, AL, March 23-24, 2006 (Workshop URL: <http://www.bama.ua.edu/~rdrogers/ILWorkshop06/>).
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Process Crystallization in the Pharmaceutical and Chemical Industries*, Philadelphia, PA, April 25 - 27, 2006.
- Co-Chair (with M. Maase) Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Orlando, FL, December 11-13, 2006.
- Co-Chair (with A. S. Myerson) ACS ProSpectives Series: *Crystallization Process Development: Case Studies & Research*, Boston, MA, February 25-27, 2007.
- Organizing Committee (with K. R. Seddon and J. F. Brennecke), *Biodegradability and Toxicity of Ionic Liquids*, Berlin, Germany, May 6-9, 2007.
- Chair, Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications*, Prague, Czech Republic, October 16-18, 2007.
- Co-Chair (with M. Hong), *5<sup>th</sup> Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of Crystal Growth & Design*, Fuzhou, China, October 25-31, 2007.
- Conference Chair, *25<sup>th</sup> Rare Earth Research Conference*, Tuscaloosa, AL, June 22-26, 2008.
- Organizer/Lecturer, *1<sup>st</sup> Ionic Liquid Workshop Malaysia*, University of Technology PETRONAS, Tronoh, Malaysia, June 30 – July 11, 2008.
- Local Organizing Committee, *15<sup>th</sup> International Conference on Biopartitioning and Purification*, Brunel University, Uxbridge, UK, June 14-19, 2009.
- Co-Chair (with T. Beyersdorff), Intertech Pira Conference *Ionic Liquids*, Miami Beach, FL, November 18-19, 2009.
- Vice Chair, *Gordon Research Conference on Crystal Engineering*, Waterville Valley, NH, June 6-11, 2010.

- Co-Organizer (with G. Desiraju), *Crystal Growth & Design-India Summit and Current Trends in Crystal Engineering Research*, Bangalore, India, December 2-3, 2010.
- Conference Chair, *4<sup>th</sup> Congress on Ionic Liquids*, Washington, DC, June 15-18, 2011.
- Chair, *Gordon Research Conference on Crystal Engineering*, Waterville Valley, NH, June 10-15, 2012.
- Co-Chair (with S. Zhang), *3rd Asian-Pacific Conference on Ionic Liquids and Green Processes*, APCIL'12, Beijing, China, September 17-19, 2012.
- Theme Organizer, "Chemistry & Global Stewardship" for the 248<sup>th</sup> ACS National Meeting (2014), San Francisco, CA, August 10-14 2014.
- Chair, *Gordon Research Conference on Ionic Liquids*, Newry, ME, August 17-22, 2014.
- Organizer/Host, 2015 New Journal of Chemistry Symposium *New Directions in Chemistry*, Montreal, QC Canada, June 3, 2015.

### Symposia Organized:

- "Aqueous Biphasic Separations: Biomolecules to Metal Ions," (with C. K. Hall) for the 207th ACS National Meeting (1994), San Diego, CA.
- "Lanthanide Coordination Chemistry," for the Rare Earth Research Conference (1996), Duluth, MN.
- "Current Trends in Applied Chemistry: The Industrial/Academic Interface in Separation Science," for the 213th ACS National Meeting (1997), San Francisco, CA.
- "Recent Advances in Metal Ion Separation and Preconcentration," (with M. L. Dietz and A. H. Bond) for the 214th ACS National Meeting (1997), Las Vegas, NV.
- "Crystal Engineering: Functional Solids by Design," (with M. J. Zaworotko) for the Fifth Chemical Congress of North America (1997), Cancún, Mexico.
- "Transactions Symposium: Crystal Engineering," (with M. J. Zaworotko) for the American Crystallographic Association Annual Meeting (1998), Arlington, VA.
- "Nuclear Separations for Radiopharmacy," (with M. L. Dietz and A. H. Bond) for the 216th ACS National Meeting (1998), Boston, MA.
- "Calixarene Molecules for Separations," (with G. Lumetta and A. S. Gopalan) for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Toward Vision 2000: Sustainable Technology for the Future," (with A. Manheim and A. H. Bond) Poster Session for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Synthesis of New Materials by Coordination Chemistry, Self Assembly and Template Formation," (with M. J. Zaworotko) for the 217th ACS National Meeting (1999), Anaheim, CA.
- "Crystal Engineering," Microsymposium 110D (G. R. Desiraju, Chair; M. J. Zaworotko and R. D. Rogers, Co-Chairs) for the XVIIIth International Union of Crystallography Congress and General Assembly (1999), Glasgow, Scotland, UK.
- "Separation Science and Technology Award Honoring E. Philip Horwitz: Solvent Extraction and Ion Exchange in the 21st Century," (with S. Alexandratos) for the 219th ACS National Meeting (2000), San Francisco, CA.
- "Advances in Solvent Selection and Substitution for Extraction," (with M. Overcash) for the 2000 Spring National AIChE Meeting (2000), Atlanta, GA.
- "Crystal Engineering," (with W. T. Pennington) for the 52<sup>nd</sup> Southeast/56<sup>th</sup> Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA.
- "Separation Science: Trends for the New Century," (with S. Alexandratos, A. Jyo, and M. J. Zaworotko) for the 2000 International Chemical Congress of Pacific Basin Societies, Pacificchem 2000 (2000), Honolulu, HI.
- "Green (or Greener) Industrial Applications of Ionic Liquids," (with K. R. Seddon) for the 221<sup>st</sup> ACS National Meeting (2001), San Diego, CA (URL: <http://bama.ua.edu/~rdrogers/sandiego>).
- "Crystal Engineering to Crystal Growth: Design and Function," (with A. S. Myerson and K. R. Seddon) for the 223<sup>rd</sup> ACS National Meeting (2002), Orlando, FL.
- "Ionic Liquids as Green Solvents: Progress and Prospects," (with K. R. Seddon) for the 224<sup>th</sup> ACS National Meeting (2002), Boston, MA (URL: <http://bama.ua.edu/~rdrogers/Boston>).
- "Ionic Liquids III: Fundamentals, Progress, Challenges, and Opportunities," (with K. R. Seddon) for the 226<sup>th</sup> ACS National Meeting (2003), New York, NY (URL: <http://bama.ua.edu/~rdrogers/New York>).
- "Ionic Liquids in Polymer Systems," (with C. S. Brazel) for the 227<sup>th</sup> ACS National Meeting (2004), Anaheim, CA (Highlighted in Freemantle, M. "Designer Liquids in Polymer Systems," *Chemical & Engineering News*, May 3, 2004, pp 26-29.)

- “Polymorphism,” Microsymposium MS04 (with E. Vlieg) for the XXth International Union of Crystallography Congress and General Assembly (2005), Florence, Italy.
- “Lanthanide-containing Functional Edifices,” (with J.-C. Bunzli, H. Tsukube, and J. Takats) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacificchem 2005 (2005), Honolulu, HI.
- “Ionic Liquids: Perspectives on the Present, Visions for the Future” (with J. Davis, Jr., D. MacFarlane, and H. Ohno) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacificchem 2005 (2005), Honolulu, HI.
- “Organic Reactions in Neoteric Media” (with C.-J. Li, T.-H. Chan, D. H. Busch, S. Kobayashi, and P. Jessop) for the 2005 International Chemical Congress of Pacific Basin Societies, Pacificchem 2005 (2005), Honolulu, HI.
- “Ionic Liquids: Not Just Solvents Anymore OR Ionic Liquids: Parallel Futures,” (with J. F. Brennecke and K. R. Seddon) for the 231<sup>st</sup> ACS National Meeting (2006), Atlanta, GA (URL: <http://bama.ua.edu/~rdrogers/Atlanta2006/>)
- “Green Chemistry and Engineering” (with M. A. Abraham) within the Joint ACS/AIChE Symposium on “Applied Chemistry and Engineering” for the 233<sup>rd</sup> ACS National Meeting (2007), Chicago, IL.
- “Award in Separations Science and Technology: Symposium in Honor of Allen S. Myerson,” for the 235<sup>th</sup> ACS National Meeting (2008), New Orleans, LA.
- “Ionic Liquids: From Knowledge to Application,” (with J. F. Brennecke and K. R. Seddon) for the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA (URL: <http://bama.ua.edu/~rdrogers/Philadelphia2008/>).
- “Green Chemistry for a Sustainable World,” for the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA.
- “Symposium in Honor of Allan S. Myerson, I&EC Fellow,” for the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA.
- “Ionic Liquids in a Sustainable World (#92)” (with D. MacFarlane and H. Ohno) for the 2010 International Chemical Congress of Pacific Basin Societies, Pacificchem 2010 (2010), Honolulu, HI.
- “Ionic Liquids: Science and Applications” (with A. E. Visser and N. J. Bridges) for the 243<sup>rd</sup> ACS National Meeting (2012), San Diego, CA.
- “Functional Materials and Ionic Liquids (BBB)” (with S. Dai, T. P. Lodge, P. Wasserscheid, and M. Watanabe) for the 2012 Materials Research Society Spring Meeting (2012), San Francisco, CA.
- “Uranium from Seawater” (with S. Dai and B. Hay) for the 244<sup>th</sup> ACS National Meeting (2012), Philadelphia, PA.
- “Materials Applications of Ionic Liquids (VV)” (with R. E. Del Sesto, S. Dai, and Y. Yoshida) for the 2013 Materials Research Society Spring Meeting (2013), San Francisco, CA.
- “Uranium from Seawater” (with P. F. Britt) for the 249<sup>th</sup> ACS National Meeting (2015), Denver, CO.
- “Transactions Symposium: Crystallography for Sustainability,” (with C. Lind-Kovacs) for the American Crystallographic Association Annual Meeting (2015), Philadelphia, PA.
- “Connecting Ionic Liquids to Societal Issues: Materials, Medicines, Energy, and Water (#113)” (with D. MacFarlane and H. Ohno) for the 2015 International Chemical Congress of Pacific Basin Societies, Pacificchem 2015 (Dec. 14-21, 2015), Honolulu, HI.
- “Pharmaceutical Ionic Liquids: Understanding, Design, and Utilization,” for the Molecules, Materials, Medicines (M3) Meeting (May 14-17, 2016), Solomons Island, MD.

#### **Other Professional Activities:**

- International Advisory Board member for the 9th International Conference on Partitioning in Aqueous Two-Phase Systems, Zaragoza, Spain, 1995.
- International Advisory Board member for the 6th Conference on Separation of Ionic Solutes, Piestany Spa, Slovakia, 1995.
- International Scientific Committee member for the 10th International Conference on Partitioning in Aqueous Two-Phase Systems, Reading, United Kingdom, 1997.
- Program Committee for the Tenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 1997.
- Program Committee for the Third Department of Energy/Basic Energy Sciences Separations Research Workshop, Savannah, GA, 1999.
- Program Committee for the Eleventh Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 1999.
- Steering Committee Member for *Chemistry in the 21st Century, ACS-2000*, San Francisco, CA, 2000.
- Program Committee for IUPAC CHEMRAWN XIV World Conference, Toward Environmentally Benign Processes and Products, Boulder, CO, 2001.

- Program Committee for the Twelfth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2001.
- Chair, Scientific Committee for Bio Partitioning & Purification 2003 Conference, Vancouver, BC, Canada, 2003.
- Instructor, NSF/DOE Pan American Advanced Studies Institute (PASI) on Green Chemistry, Montevideo, Uruguay, 2003.
- International Symposium Committee for the First International Symposium on Process Intensification and Minutisation, Newcastle upon Tyne, United Kingdom, 2003.
- Program Committee for the Thirteenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2003.
- Scientific Committee for the International Conference on Materials for Advanced Technologies (ICMAT 2003)/International Union of Materials Research Societies International Conference in Asia (ICA 2003), Singapore, Symposium D: New Materials by Crystal Engineering Design.
- Group of Advisors, LICP Discussions No. 1 - Ionic Liquids: Progress and Prospects, Lanzhou China, 2004.
- Organizing and Scientific Advisory Committee, Canada-US Joint Workshop on Innovative Chemistry in Clean Media, Montreal, Quebec, Canada, 2004.
- International Program Committee, EUCHEM 2004 Molten Salts Conference, Piechowice, Poland, 2004.
- Instructor, ACS-PRF Summer School on Green Chemistry, Pittsburgh, PA, 2004.
- International Advisory Board, 1<sup>st</sup> International Congress on Ionic Liquids (COIL), Salzburg, Austria, 2005.
- Program Committee for the Fourteenth Symposium on Separations Science and Technology for Energy Applications, Gatlinburg, TN, 2005.
- Advisory Board, Second International Symposium on Green/Sustainable Chemistry, Delhi, India, 2006.
- Organizing Committee 10<sup>th</sup> Annual Green Chemistry and Engineering Conference: Washington, DC, 2006.
- Scientific Committee, EUCHEM Conference on Molten Salts and Ionic Liquids, Hammamet, Tunisia, 2006.
- International Advisory Committee, International Conference and Exhibition on Green Chemistry, Malaysian Chemical Congress (MCC 2006), Kuala Lumpur, Malaysia, 2006.
- Advisory Committee, DAE-BRNS Biennial Symposium on Emerging Trends in Separation Science and Technology, SESTEC-2006, Mumbai, India, 2006.
- Organizing Committee, 11<sup>th</sup> Annual Green Chemistry and Engineering Conference, Washington, DC, 2007.
- International Organizing Committee, 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2), Yokohama, Japan, 2007.
- Organizing Committee, International Solvent Extraction Conference (ISEC 2008) "Solvent Extraction: Fundamentals to Industrial Applications," Tucson, AZ, 2008.
- International Advisory Board, EUCHEM2008 Conference on Molten Salts and Ionic Liquids, Copenhagen, Denmark, 2008.
- Scientific Advisory Board, Taibah International Chemistry Conference 2009 (TICC-2009), Al-Madinah Al-Munawarah, Saudi Arabia, 2009.
- International Advisory Board for the Joint Conference: The 4th International Conference on Green and Sustainable Chemistry (GSC-4) & the 2nd Asian-Oceanian Conference on Green and Sustainable Chemistry (AOC-2), Beijing, China, 2009.
- International Advisory Committee for the 9<sup>th</sup> International Workshop on the Crystal Growth of Organic Materials (CGOM9), Singapore, 2010.
- International Advisory Committee for Application of Radiotracers in Chemical, Environmental and Biological Sciences (ARCEBS 10), Kolkata, India, 2010.
- Scientific Committee for 2<sup>nd</sup> Asian Pacific Conference on Ionic Liquids and Green Processes (APCIL-2), Dalian, China, 2010.
- International Advisory Board for the Green Solvents Conference, Berchtesgaden, Germany, 2010.
- Chair The Rare Earth Research Conference Spedding Award Committee, 2011.
- Technical Committee, International Solvent Extraction Conference (ISEC 2011), Santiago, Chile, 2011.
- International Scientific Committee, 1<sup>st</sup> International Conference on Ionic Liquids in Separation and Purification Technology, Sitges, Spain, 2011.
- International Advisory Board, EUCHEM2012 Conference on Molten Salts and Ionic Liquids, Newport, South Wales, UK, 2012.
- International Advisory Board, Indo-US Workshop on Green Chemistry for Environments and Sustainable Development, Dehradun, India, March 11-13, 2012.

- International Scientific Committee, 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL '12, Beijing, China, September 17-19, 2012.
- International Committee, 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT), Toronto, Canada, June 29 – July 2, 2014.
- Advisory Board, 7<sup>th</sup> Green Solvents Conference, Dresden, Germany, October 19-22, 2014.
- International Advisory Board, Collaborative Conference on Crystal Growth, Phuket, Thailand, Nov. 4-7, 2014.
- International Advisory Board, 6<sup>th</sup> International Congress on Ionic Liquids (COIL-6), Jeju, Korea, June 16-20, 2015.
- Invited Expert, meeting of the International Council for Science Project “CONcepts and termiNology IN Crystal Engineering” (CONvINCE), Como, Italy, August 30, 2015.
- International Advisory Committee, Collaborative Conference on Crystal Growth (3CG 2015), Hong Kong, China, Dec. 14-17, 2015.
- Advisory Board, International Symposium on Ionic Liquids (ISOIL\_2016), Mumbai, India, Jan. 21-22, 2016.
- International Advisory Committee, Energy Materials Nanotechnology Meeting on Cellulose (EMN 2016), Taipei, Taiwan, March 8-11, 2016.
- Scientific Advisory Board, EUCHEM2016, Vienna, Austria, July 3-8, 2016.
- Organizing Committee, Molecules, Materials, Medicines (M3), Solomons Island, MD, May 14-17, 2016.

## Books Edited:

1. *Aqueous Biphasic Separations: Biomolecules to Metal Ions*; Rogers, R. D.; Eiteman, M. A., Eds.; Plenum: New York, 1995; 191 pp.
2. *Metal-Ion Separation and Preconcentration, Progress and Opportunities*; Dietz, M. L.; Bond, A. H.; Rogers, R. D., Eds.; ACS Symposium Series 716, American Chemical Society: Washington, DC, 1999; 418 pp.
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380. Z. Guo, H. D. Willauer, J. G. Huddleston, R. D. Rogers, and G. C. April, "Polymer-Based Aqueous Biphasic Systems as Alternatives for Kraft Pulping Process," Presented by Z. Guo before the 2001 Spring National Meeting of AIChE (2001), Houston, TX, Abstract 99g.
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385. R. D. Rogers, "Scientific journals, a conversation with top editors of science journals," Presented by R. D. Rogers as part of a Panel Discussion before the Image and Meaning Conference (2001), Cambridge, MA, no abstract (Invited Panel Participant).



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389. R. P. Swatloski, A. E. Visser, W. M. Reichert, and R. D. Rogers, "Crystallographic Investigation of Room-Temperature Ionic Liquids via X-ray Crystallography – Characterization of Low-Melting Analogs," Presented by R. P. Swatloski before the 5<sup>th</sup> Annual Green Chemistry and Engineering Conference (2001), Washington, DC, Abstract Book p 39.
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422. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Focus on Separations and Recycle," Presented by R. D. Rogers before the Challenges of Novel Technologies in Molecular Chemistry Conference (2002), Rennes, France, Abstract Book. (Invited Keynote Presentation)
423. J. D. Holbrey, K. H. Shaughnessy, M. A. Klingshirn, G. A. Broker, and R. D. Rogers, "Transition Metal Catalyzed CO/Olefin Co-Polymerization in Room Temperature Ionic Liquids," Presented by J. D. Holbrey before the Thirteenth International Symposium on Molten Salts, part of the 201<sup>st</sup> National Meeting of the Electrochemical Society (2002), Philadelphia, PA, Abstract 1400.
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435. J. D. Holbrey, W. M. Reichert, R. G. Reddy, and R. D. Rogers, "Specific heat capacities of common ionic liquids: an examination of the potential for using ionic liquids as thermal fluids," Presented by J. D. Holbrey before the 224<sup>th</sup> ACS National Meeting (2002), Boston, MA, Abstract I&EC 070.
436. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Ionic Liquids: new solvents for non-derivitized cellulose dissolution," Presented by R. P. Swatloski before the 224<sup>th</sup> ACS National Meeting (2002), Boston, MA, Abstract I&EC 076.
437. W. M. Reichert, J. D. Holbrey, and R. D. Rogers, "Insight into the solvent properties of ionic liquids: a comparative study of solute partitioning in organic/ionic liquid biphasic systems," Presented by W. M. Reichert before the 224<sup>th</sup> ACS National Meeting (2002), Boston, MA, Abstract I&EC 087.
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485. M. L. Moody, H. D. Willauer, J. G. Huddleston, and R. D. Rogers, "Characterization studies of PEG/Dextran Aqueous Biphasic Systems Involving Linear Solvation Energy Relationship, pH, and Temperature," Presented by M. L. Moody before the 12<sup>th</sup> International Conference on Biopartitioning and Purification (2003), Vancouver, British Columbia, Canada, Abstract Book p 61.
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492. W. M. Reichert, J. D. Holbrey, and R. D. Rogers, "Relationships between solid-state ion-ion and hydrogen-bonding interactions and liquid properties in ionic liquid forming salts," Presented by W. M. Reichert before the 226<sup>th</sup> ACS National Meeting (2003), New York, NY, Abstract I&EC 132.
493. K. E. Gutowski, G. A. Broker, N. J. Bridges, J. G. Huddleston, H. D. Willauer, J. D. Holbrey, and R. D. Rogers, "Formation of aqueous biphasic systems with hydrophilic ionic liquids via the addition of water-structuring salts: applications to nuclear tank wastes," Presented by K. E. Gutowski before the 226<sup>th</sup> ACS National Meeting (2003), New York, NY, Abstract I&EC 131.
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495. R. P. Swatloski, R. D. Rogers, C. R. Lea, I. A. Miller, and D. M. Brown, "X-Ray crystallography of novel ionic liquids based on N-alkylmorpholinium salts," Presented by R. P. Swatloski before the 226<sup>th</sup> ACS National Meeting (2003), New York, NY, Abstract I&EC 129.
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499. R. D. Rogers, J. D. Holbrey, S. K. Spear, K. E. Gutowski, and R. P. Swatloski, "CMPO-impregnated cellulosic materials from ionic liquids for f-element separations," Presented by R. D. Rogers before the 226<sup>th</sup> ACS National Meeting (2003), New York, NY, Abstract I&EC 045. (Invited Presentation.)
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501. A. M. Przyborowska, G. A. Broker, R. D. Rogers, M. W. Brechbiel, and R. P. Planalp, "Electronic properties and structures of novel Cu(II) complexes of hexadentate aminopyridyl ligands and their alkylated derivatives," Presented by A. M. Przyborowska before the 226<sup>th</sup> ACS National Meeting (2003), New York, NY, Abstract INOR 486.
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503. R. D. Rogers, "Utilizing Neoteric Solvent Systems to Explore New Decontamination Technologies," Presented by R. D. Rogers before the Radionuclide Decontamination Science and Technology Workshop (2003), Los Alamos, NM. (Invited Presentation).
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505. R. D. Rogers, "Greener Industry: A Growing Trend," Panel Discussion and Invited Speaker before the Society of Women Engineers National Conference (2003), Birmingham, AL, Program Book, page 34 (Invited Presentation).
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507. N. J. Bridges, V. A. Cocalia, A. E. Visser, J. H. Davis, Jr., J. Holbrey, and R. D. Rogers, "Task Specific Ionic Liquids for Recovery of Actinides from Aqueous Acid Media," Presented by N. J. Bridges before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 36-37.
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511. N. J. Bridges and R. D. Rogers, "Comparative Studies of Cyanex-923<sup>®</sup> in Ionic Liquids Versus Traditional Organic Solvents," Presented by N. J. Bridges before the Thirteenth Symposium on Separations Science and Technology for Energy Applications (2003), Gatlinburg, TN, Abstract Book p 79.
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531. R. D. Rogers, J. D. Holbrey, S. K. Spear, and M. B. Turner, "Ionic liquids as green solvents: Engineering bioactive cellulose materials," Presented by R. D. Rogers before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 198. (Invited Presentation)
532. R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Utilization of biorenewable resources: Bio-based materials from ionic liquids," Presented by R. P. Swatloski before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 046.
533. J. H. Poplin, R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Cellulose-supported colorimetric sensors for mercury ion detection," Presented by M. A. Klingshirn before the 227th ACS National Meeting (2004), Anaheim, CA, Abstract CELL 024.
534. R. P. Swatloski, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Ionic Liquids Enabling Sustainable Technologies for New Advanced Materials," Presented by R. P. Swatloski before the Spring National AIChE Meeting (2004), New Orleans, LA. (Invited presentation)
535. R. D. Rogers, "Investigation of Ionic Liquids as Environmentally Benign Solvents," Presented by R. D. Rogers to the U. S. EPA National Center for Environmental Research EPA and NSF Technology for a Sustainable Environment (TSE) Grantees Meeting (2004), Arlington, VA. No Abstract.
536. R. D. Rogers, "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers before the Canada-US Joint Workshop on Innovative Chemistry in Clean Media (2004), Montreal, Quebec, Canada. (Invited presentation)
537. R. D. Rogers, "Toxicology of Nanoparticles and Analysis and Modeling of Nanoparticles Solution Properties for Physico-Chemical Characterization and Risk Assessment," Presented by R. D. Rogers before the Center for Nanoscale Materials Workshop for EPSCoR Faculty and Students (2004), Argonne, IL. (Invited presentation)
538. R. D. Rogers, "Prospective on the 2005 Conference 'Taking Measure of Green Progress: Opportunities to Meet Global Challenges,'" Presented by R. D. Rogers before the 8<sup>th</sup> Annual Green Chemistry and Engineering Conference: 'Green Chemistry and Engineering: The Business Imperative for Sustainability' (2004), Washington, DC, no abstract.
539. R. D. Rogers, S. T. Griffin, G. A. Broker, W. M. Reichert, J. H. Poplin, R. P. Swatloski, and J. D. Holbrey, "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?," Presented by R. D. Rogers before the American Crystallographic Association Annual Meeting (2004), Chicago, IL, Abstract TR.01.18. (Invited Presentation)
540. M. A. Klingshirn, R. D. Rogers, and K. H. Shaughnessy "Palladium-Catalyzed Hydroesterification of Styrene in the Presence of Ionic Liquids," Presented by M. Klingshirn before the ACS-PRF Summer School on Green Chemistry (2004), Pittsburgh, PA, Program Booklet 1-12.
541. M. B. Turner, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Entrapment of Biologically Active Macromolecules in Cellulosic Films Reconstituted from Ionic Liquids," Presented by M. Turner before the ACS-PRF Summer School on Green Chemistry (2004), Pittsburgh, PA, Program Booklet 1-20.
542. J. S. Moulthrop, R. P. Swatloski, R. D. Rogers, and G. Moyna "High-resolution <sup>13</sup>C NMR studies of amylose and cellulose oligomers in 1-butyl-3-methylimidazolium chloride solutions," Presented by J. S. Moulthrop before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract CARB 063.
543. R. D. Rogers, W. M. Reichert, and J. D. Holbrey "Ionic Liquids and Hydrogen Bonding: Understanding the Solvent Characteristics of Ionic Liquids through Study of Crystal Structures and Solvation Parameters," Presented by R. D. Rogers before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract ORGN 542. (Invited symposium presentation)
544. R. P. Planalp, N. Ye, G. Park, A. M. Przyborowska, P. E. Sloan, T. Clifford, C. B. Bauer, R. D. Rogers, R. Ma. S. V. Torti, and M. W. Brechbiel "Nickel(II), copper(II) and zinc(II) binding properties and cytotoxicity of tripodal, hexadentate tris(ethylenediamine)-analogue chelators," Presented by R. P. Planalp before the 228th ACS National Meeting (2004), Philadelphia, PA, Abstract INOR 424.
545. R. D. Rogers, W. M. Reichert, J. D. Holbrey, and G. A. Broker "Approaches to Crystallization: Techniques for Controlling the Formation of Materials and their Application to Industry," Presented by R. D. Rogers before the Crystallisation and Particle Science Workshop – Bridging the Gap between Research and Industrial Application (2004), Singapore, Abstract. (Invited Workshop Lecture)
546. S. V. Volkov and R. D. Rogers, "'Green' Route of Chemistry Development. Problems and Perspectives," Presented by S. Volkov before the XVIth Ukrainian Conference on Inorganic Chemistry (2004), Uzhhorod, Ukraine.
547. R. D. Rogers, "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?," Presented by R. D. Rogers before the Gordon Research Conference on Organic Structures & Properties (2004), Les Diablerets, Switzerland (Invited Presentation).
548. W. Wang, G. Shen, R. P. Swatloski, R. Farag, R. M. Broughton, Jr., and R. D. Rogers, "Cellulose Fibers Extruded from Ionic Liquids," Presented by R. M. Broughton, Jr. before the International Nonwovens Technical Conference (2004), Toronto Canada.

549. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers before the Proctor & Gamble Ionic Liquids Symposium (2004), Proctor & Gamble, Cincinnati, OH on 11/10/04. (Invited Workshop Lecture)
550. R. D. Rogers, "A New Class of Solvents for TRU Dissolution and Separation: Ionic Liquids," Presented by R. D. Rogers before the DOE Environmental Management Science Program High Level Waste Workshop (2005), SREL Conference Center, Aiken, SC on 1/29/05; no abstract, Program Booklet.
551. H. Luo, S. Dai, P. V. Bonnesen, A. C. Buchanan, III, R. D. Rogers, J. D. Holbrey, and C. L. Hussey, "Novel Fission-Product Separations Based on Room Temperature Ionic Liquids," Presented by S. Dai before the DOE Environmental Management Science Program High Level Waste Workshop (2005), SREL Conference Center, Aiken, SC on 1/29/05; no abstract, Program Booklet.
552. W. Wang, G. Shen, R. P. Swatloski, R. Farag, R. M. Broughton, Jr., and R. D. Rogers "A New Solvent for Cellulose Extrusion," Presented by R. M. Broughton, Jr. before the Cotton Beltwide Conferences (2005), New Orleans, LA.
553. R. D. Rogers, "Solvent Strength of Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10<sup>th</sup> NICHÉ Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
554. R. D. Rogers, "Liquid-Liquid Separations with Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10<sup>th</sup> NICHÉ Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
555. R. D. Rogers, "Polymer Chemistry of Ionic Liquids," Presented by R. D. Rogers before the Council for Chemical Research 10<sup>th</sup> NICHÉ Conference: Ionic Liquids – Background, State-of-the-Art, and Applications (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
556. R. D. Rogers, "Advanced Materials Utilizing ILs as Enabling Solvents," Presented by R. D. Rogers before the Council for Chemical Research 10<sup>th</sup> NICHÉ Conference: *Ionic Liquids – Background, State-of-the-Art, and Applications* (2005), February 21-22, 2005, University of Notre Dame, South Bend, IN; no abstract. (Invited Workshop Lecturer)
557. R. P. Planalp, M. Childers, D. P. Kennedy, A. Lindell, G. Broker, R. D. Rogers, M. W. Brechbiel, R. Ma, F. M. Torti, and S. V. Torti, "Polyamino-heterocycle chelating agents with cytotoxic activity in tumor cells: Structure-activity relationship of imidazole, thiazole and pyridyl donor groups," Presented by R. P. Planalp before the 229th ACS National Meeting (2005), San Diego, CA, Abstract MEDI-501.
558. R. D. Rogers, "DE-FG02-96ER14673 - Alternative (Potentially Green) Separations Media: Aqueous Biphasic and Related Systems - Extending the Frontier," Presented by R. D. Rogers before the Department of Energy Basic Energy Sciences Separations Program, Heavy Elements Program Contractor's Meeting (2005), Rockville, MD; Abstract O6-1.
559. C. Mobley, A. Ramasetty, A. Haque, J. H. Poplin, D. T. Daly, and R. D. Rogers, "Affordable Bio-polymer Matrix Composites for Lightweight Automotive Components," Presented by A. Haque at the Sixth Annual Global Automotive Conference (2005), Western Kentucky University, Bowling Green, KY.
560. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers at the NSF Joint China-USA Workshop *Determining the Grand Challenges of Green Chemistry Development and Implementation* (2005), May 27-31, 2005, Beijing, China; Abstract Book (Co-Organizer).
561. R. D. Rogers, V. A. Cocalia, K. E. Gutowski, N. J. Bridges, J. D. Holbrey, "Separations Using Ionic Liquids: The Challenges of Multiple Mechanisms," Presented by R. D. Rogers at the 1<sup>st</sup> International Congress on Ionic Liquids (COIL) (2005), Salzburg, Austria; Abstract Book p 28. (Plenary Lecture).
562. J. G. Huddleston, J. Chen, S. K. Spear, R. D. Rogers, "The Role of PEG-based Solvents in Green Chemistry," Presented by J. G. Huddleston before the International Conference on Biopartitioning and Purification, BPP 2005 (2005), The Netherlands, Abstract Book p 7.
563. R. P. Planalp, D. P. Kennedy, M. L. Childers, M. W. Brechbiel, R. Ma, G. A. Broker, R. D. Rogers, F. M. Torti, and S. V. Torti, "Polyamino-heterocycle chelating agents with cytotoxic activity in tumor cells: structure-activity relationship of metal-binding geometry and metal donor groups," Presented by R. P. Planalp before the First Congress of the International BioIron Society (2005), Prague, Czech Republic, Paper P281.
564. R. D. Rogers, D. T. Daly, J. D. Holbrey, J. G. Huddleston, J. H. Poplin, S. K. Spear, R. P. Swatloski, M. B. Turner, and R. L. Wells, "A Platform Strategy Using Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials," Presented by R. D. Rogers before the joint meeting of the 2<sup>nd</sup> International Conference on Green and Sustainable Chemistry and the 9<sup>th</sup> Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 1. (Presidential Green Chemistry Challenge Award Presentation)
565. S. T. Griffin, M. Dilip, S. K. Spear, and R. D. Rogers, "Comparison of the Effect of Temperature in Aqueous Biphasic Systems (ABS) and Aqueous Biphasic Extraction Chromatographic Resins (ABEC<sup>®</sup>)," Presented by M. Dilip before the joint meeting of the 2<sup>nd</sup> International Conference on Green and Sustainable Chemistry and the 9<sup>th</sup> Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 81.
566. M. Dilip, S. T. Griffin, S. K. Spear, and R. D. Rogers, "Towards Greener Environmental Remediation: Use of Aqueous Biphasic Extraction Chromatographic Resins (ABEC<sup>®</sup>) for Perchlorate Removal," Presented by M. Dilip before the joint meeting of the 2<sup>nd</sup> International Conference on Green and Sustainable Chemistry and the 9<sup>th</sup> Annual Green Chemistry and Engineering

- Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 82.
567. R. P. Swatloski, J. H. Poplin, D. T. Daly, A. Haque, C. Mobley, and R. D. Rogers, “Functional Bio-polymer Matrix Composites via Ionic Liquid Solution Routes,” Presented by R. P. Swatloski before the joint meeting of the 2<sup>nd</sup> International Conference on Green and Sustainable Chemistry and the 9<sup>th</sup> Annual Green Chemistry and Engineering Conference – Taking Measure of Green Progress: Opportunities to Meet Global Challenges (2005), Washington, DC; Abstract 264.
568. V. A. Cocalia, M. P. Jensen, J. D. Holbrey, and R. D. Rogers, “The Challenges of Using Ionic Liquids as a New Media for Metal Ion Separations,” Presented by V. A. Cocalia before the 24<sup>th</sup> Rare Earth Research Conference (2005), Keystone, CO; Abstract D-5, p 27.
569. D. A. Dixon, K. Gutowski, R. Rogers, S. Li, N. Shah, P. Keenum, W. deJong, T. L. Windus, and A. Felmy, “Computational Approaches to Lanthanide and Actinide Chemistry for Environmental Remediation,” Presented by D. A. Dixon before the 24<sup>th</sup> Rare Earth Research Conference (2005), Keystone, CO; Abstract F-5, p 37.
570. N. J. Bridges, K. E. Gutowski, S. K. Spear, and R. D. Rogers, “Partitioning Studies of Peractinide Salts in Aqueous Biphasic Systems Formed by Contact of Ionic Liquids Solutions with Solutions of Kosmotropic Salts,” Presented by N. J. Bridges before the 24<sup>th</sup> Rare Earth Research Conference (2005), Keystone, CO; Abstract P3-01, p 118.
571. A. Haque, D. T. Daly, R. D. Rogers, C. Mobley, and R. P. Swatloski, “Effects of MAPP as Coupling Agent on the Performance of Cellulose/Polypropylene Laminated Composites,” Presented by A. Haque at the 3<sup>rd</sup> International Conference on Eco-Composites (2005), Royal Institute of Technology, Stockholm, Sweden.
572. R. D. Rogers, “Designer Ionic Liquids Enabling Sustainable Technologies,” Presented by R. D. Rogers at the Japan IL workshop July 15, 2005; Abstract. (Invited Presentation).
573. R. D. Rogers and V. Cocalia, “Separations Using Ionic Liquids: Multiple Uses/Multiple Mechanisms,” Presented by R. D. Rogers at the 7<sup>th</sup> International Symposium on Molten Salts Chemistry & Technology (2005), Toulouse, France; Abstract - Proceedings Vol. II, p 1003.
574. R. D. Rogers, “Designer Ionic Liquids Enabling Sustainable Technologies,” Presented by R. D. Rogers at the 7<sup>th</sup> International Symposium on Molten Salts Chemistry & Technology (2005), Toulouse, France; Abstract - Proceedings Vol. I, p 59. (Invited Plenary Presentation)
575. R. D. Rogers, J. D. Holbrey, and S. K. Spear, “Green Chemistry and Applications of Ionic Liquids: Enabling Sustainable Technologies for Advanced New Materials,” Presented by R. D. Rogers before the European Congress on Advanced Materials and Processes, EUROMAT 2005 (2005), Prague, Czech Republic; Abstract Symposium D52. (Keynote Lecture)
576. V. A. Cocalia, J. D. Holbrey, K. E. Gutowski, N. J. Bridges, and R. D. Rogers, “Separations of Metal Ions Using Ionic Liquids: The Challenges of Multiple Mechanisms,” Presented by R. D. Rogers before the International Solvent Extraction Conference “Solvent Extraction for Sustainable Development” ISEC 2005 (2005), Beijing, China; Abstract A111. (Keynote Lecture)
577. R. D. Rogers, “Applications of Green Chemistry in a Recycling Economy,” Presented by R. D. Rogers before the 7<sup>th</sup> World Congress on Recovery, Recycling and Re-integration (2005), Beijing, China; Abstract Book Page II. (Plenary Lecture)
578. R. D. Rogers, N. J. Bridges, J. G. Huddleston, K. E. Gutowski, and S. K. Spear, “Salt/Salt Aqueous Biphasic Systems Formed by Solutions of Ionic Liquids and Kosmotropic Salts,” Presented by R. D. Rogers before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 37. (Invited Presentation).
579. N. J. Bridges, J. G. Huddleston, S. K. Spear, and R. D. Rogers, “Utilization of Salt/Salt Aqueous Biphasic Systems Formed by Solutions of Ionic Liquids and Kosmotropic Salts for the Extraction of Fission Products,” Presented by N. J. Bridges before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 15.
580. V. A. Cocalia, S. K. Spear, and R. D. Rogers, “<sup>99</sup>TcO<sub>4</sub><sup>-</sup> Extraction from Aqueous Media by XAD-7 Resin Coated with CYPHOS IL101 and CYPHOS IL104 Ionic Liquids,” Presented by V. A. Cocalia before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 16.
581. K. E. Gutowski, R. D. Rogers, and D. A. Dixon, “DFT Studies of the Complexation Behavior of Phosphates and Silicates with Actinide and Fission Product Cations,” Presented by K. E. Gutowski before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 20.
582. S. T. Griffin, S. K. Spear, W. M. Reichert, and R. D. Rogers, “Liquid-Liquid Extractions Using Renewable Plant-Based Soybean Oil as Alternatives to Organic Solvents,” Presented by S. T. Griffin before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 31.
583. J. H. Davis, Jr., R. D. Rogers, S. Griffin, M. Tickell, and P. Fox, “Task-Specific Ionic Liquids (TSIL) for Separations Applications,” Presented J. H. Davis, Jr. before the Fourteenth Symposium on Separations Science and Technology for Energy Applications (2005), Gatlinburg, TN, Abstract Book p 39.
584. R. D. Rogers, “Designer Ionic Liquids Enabling Sustainable Technologies,” Presented by R. D. Rogers before the 6<sup>th</sup> Inha ERC International Symposium “Application of Ionic Liquids in Chemical Engineering” (2005), Incheon, Korea, Abstract book p 6. (Invited Keynote Speaker).
585. R. D. Rogers, “Green (or Not) Ionic Liquids to Access Biorenewable Polymer Materials,” Presented by R. D. Rogers before the Joint US-Japan Workshop on Sustainable Chemical Synthesis (2005), Honolulu, HI (Invited Speaker).
586. R. D. Rogers, C. Mobely, R. P. Swatloski, J. H. Poplin, D. T. Daly, and A. Haque, “Cellulose-based composites prepared from ionic liquids: Affordable materials for industrial applications,” Presented by R. D. Rogers before the 2005 International

- Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract AGRO 391. (Invited Presentation)
587. R. M. Broughton, G. Shen, J. Lee, U. Cho, R. Swatloski, and R. D. Rogers, "Extrusion of composite fibers and films," Presented by R. M. Broughton before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVR 883. (Invited Presentation)
  588. R. D. Rogers, R. P. Swatloski, S. K. Spear, and D. T. Daly, "Designer ionic liquids enabling sustainable technologies," Presented by R. D. Rogers before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVR 894. (Invited Presentation)
  589. R. D. Rogers, R. P. Swatloski, J. H. Poplin, V. A. Cocalia, and N. J. Bridges, "Cellulosic materials containing lanthanide complexes: ionic liquid routes to new materials," Presented by R. D. Rogers before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract INOR 803. (Invited Presentation)
  590. A. Wierzbicki, J. Davis, R. D. Rogers, E. A. Salter, M. Reichert, S. Griffin, E. A. Cioffi, P. A. Fox, B. Wicker, A. Smith, M. Tickell, "Boron, but not boring: Boronium ions and their use in ionic liquids," Presented by A. Wierzbicki before the 2005 International Chemical Congress of Pacific Basin Societies, Pacifichem 2005 (2005), Honolulu, HI, Abstract ENVI 769.
  591. R. D. Rogers, M. Smiglak, D. W. Drab, W. M. Reichert, K. E. Gutowski, T. Wilson, A. Vincek, D. Zhang, H. Fang, K. Kirischenko, S. Singh, and A. R. Katritzky, "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers before Air Force Office of Scientific Research Ionic Liquids Research Workshop (2006), Tuscaloosa, AL.
  592. A. Vincek, D. Zhang, H. Fang, K. Kirischenko, S. Singh, A. R. Katritzky, J. D. Holbrey, M. Smiglak, W. M. Reichert, S. K. Spear, and R. D. Rogers, "In search of Energetic Ionic Liquids," Presented by K. Kirischenko before Air Force Office of Scientific Research Ionic Liquids Research Workshop (2006), Tuscaloosa, AL.
  593. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers, before the Chemical Engineering Students Society VII International Chemical Engineering Congress (2006), Monterrey, Mexico. (Invited Plenary Presentation)
  594. C. C. Hines, W. M. Reichert, S. T. Griffin, T. Morgan, and R. D. Rogers, "Ionic liquids as solvents for metal-ligand complexation," Presented by C. C. Hines before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  595. M. Dilip, N. J. Bridges, and R. D. Rogers, "Influence of Temperature on Phase Diagrams and Partitioning of Alcohols in Salt/Salt ABS," Presented by M. Dilip before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  596. J. H. Poplin, R. Swatloski, J. Holbrey, S. Spear, and R. Rogers, "Development of Cellulose Based Dip-and-Read Test Strips for Hg<sup>2+</sup> Detection," Presented by J. H. Poplin before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  597. M. Smiglak, D. M. Drab, T. Wilson, W. M. Reichert, R. D. Rogers, H. Yang, D. Zhang, K. Kirichenko, and A. R. Katritzky, "Strategies Toward the Design of Energetic Ionic Liquids: Nitro- and Nitrile Substituted Imidazolium Salts," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  598. M. Smiglak, D. M. Drab, T. Wilson, W. M. Reichert, R. D. Rogers, H. Yang, D. Zhang, K. Kirichenko, and A. R. Katritzky, "Strategies Toward the Design of Energetic Ionic Liquids: Azolate-Based Salts," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  599. M. Smiglak, W. M. Reichert, S. T. Griffin, J. D. Holbrey, R. D. Rogers, K. Kirichenko, D. Zhang, and A. R. Katritzky, "Ionic liquids via reaction of the zwitterion 1,3-dimethylimidazolium-2-carboxylate with protic acids," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  600. M. Smiglak, W. M. Reichert, J. D. Holbrey, L. Sun, J. S. Thrasher, R. D. Rogers, and J. S. Wilkes, "Combustible ionic liquids by design: Destroying another ionic liquid myth," Presented by M. Smiglak before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  601. K. E. Gutowski, J. D. Holbrey, D. A. Dixon, and R. D. Rogers, "Prediction of the Formation and Stabilities of Energetic Salts and Ionic Liquids Based on Ab Initio Electronic Structure Calculations," Presented by K. E. Gutowski before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  602. N. J. Bridges and R. D. Rogers, "Fundamental Studies of Chaotropic Salts (e.g., Ionic Liquids) and Kosmotropic Salts in the Formation of Salt/Salt Aqueous Biphasic Systems," Presented by N. J. Bridges before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  603. V. A. Cocalia, S. T. Griffin, and R. D. Rogers, "Ionic Liquids in Actinide Chemistry," Presented by V. A. Cocalia before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  604. W. L. Hough, T. Wilson, M. Smiglak, J. Pernak, S. K. Spear, J. H. Davis, Jr., and R. D. Rogers, "Ionic Liquids: The Next Generation of Sweeteners," Presented by W. L. Hough before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL.
  605. R. D. Rogers, "ILs as Technical Materials, Literature, and Choice," Presented before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL. (Organizer).
  606. R. D. Rogers, "Separations and Energetic Materials," Presented before the Ionic Liquids Workshop: Background, State-of-the-Art, and Academic/Industrial Applications (2006), Tuscaloosa, AL. (Organizer).

607. M. Smiglak, W. M. Reichert, J. D. Holbrey, J. S. Wilkes, L. Sun, J. S. Thrasher, and R. D. Rogers, "Combustible ionic liquids by design: Destroying another ionic liquid myth," Presented by M. Smiglak before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 103.
608. M. Smiglak, W. M. Reichert, S. T. Griffin, J. D. Holbrey, R. D. Rogers, K. Kirichenko, D. Zhang, and A. R. Katritzky, "Ionic liquids via reaction of the zwitterion 1,3-dimethylimidazolium-2-carboxylate with protic acids," Presented by M. Smiglak before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 104.
609. C. C. Hines, W. M. Reichert, S. T. Griffin, and R. D. Rogers, "Ionic liquid mediated metal-ligand complexation," Presented by C. C. Hines before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 105.
610. W. Hough, T. Wilson, M. Smiglak, J. Pernak, S. K. Spear, J. H. Davis Jr., and R. D. Rogers, "Ionic liquids: The next generation of sweeteners," Presented by W. Hough before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 106.
611. R. C. Remsing, D. A. Fort, R. P. Swatloski, P. Moyna, R. D. Rogers, and G. Moyna, "Use of ionic liquids for the processing and analysis of lignocellulosic materials," Presented by G. Moyna before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 151.
612. R. P. Swatloski, R. M. Broughton, G. Moyna, D. T. Daly, S. K. Spear, and R. D. Rogers, "How understanding the ionic liquid/cellulose dissolution mechanism can guide the generation of advanced cellulose-based materials," Presented by R. P. Swatloski before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 204.
613. J. H. Davis Jr., A. Smith, M. Tickell, R. D. Rogers, W. M. Reichert, S. T. Griffin, A. Wierzbicki, and E. A. Salter, "Boronium ion based ionic liquids: Surprises abound," Presented by J. H. Davis, Jr. before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 220.
614. R. C. Remsing, D. A. Fort, R. P. Swatloski, P. Moyna, R. D. Rogers, and G. Moyna, "Green solvents gone bananas: Use of ionic liquids for the processing and analysis of biomass," Presented by G. Moyna before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 244.
615. J. H. Davis Jr., M. Tickell, R. D. Rogers, W. M. Reichert, and S. T. Griffin, "New task-specific ionic liquids incorporating amine groups and their use for reactive capture," Presented by J. H. Davis, Jr. before the 231st ACS National Meeting (2006), Atlanta, GA, Abstract I&EC 280.
616. R. D. Rogers, "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers before the 2<sup>nd</sup> Australian Symposium on Ionic Liquids (2006), Melbourne, Australia, Abstract Book. (Invited Plenary Speaker).
617. R. D. Rogers and W. M. Reichert, "Approaches to crystallization from ionic liquids: complex solvents-complex results – or – A strategy for controlled formation of new supramolecular architectures?" Presented by R. D. Rogers before the 89<sup>th</sup> Canadian Chemical Congress (2006), Halifax, Nova Scotia, Canada, Abstract 0338. (Invited Symposium Presentation)
618. J. Fortunak, F. Ohwoavworhwa, O. Kunle, R. P. Swatloski, and R. D. Rogers, "Valuable products from Nigerian elephant sawgrass," Presented by J. Fortunak before the 10<sup>th</sup> Annual Green Chemistry and Engineering Conference (2006), Washington, D.C.
619. D. G. Whitten, L. V. Interrante, P. V. Kamat, and R. D. Rogers, "The Peer Review Process," Panel Presentation at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50<sup>th</sup> Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
620. R. D. Rogers, L. V. Interrante, P. V. Kamat, and D. G. Whitten, "Getting Involved in the Scientific Publishing Process; What Does it Take?," Panel Presentation (Led by R. D. Rogers) at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50<sup>th</sup> Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
621. L. V. Interrante, P. V. Kamat, R. D. Rogers, and D. G. Whitten, "What Constitutes Publishable Science," Panel Presentation at the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50<sup>th</sup> Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
622. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Crystallization Solvents: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?," Presented by R. D. Rogers before the Institute of Chemistry of the Chinese Academy of Science Workshop on the Frontiers of Molecular Sciences & Symposium on Scholarly Publishing for Celebrating the 50<sup>th</sup> Anniversary of the Foundation of ICCAS (2006), Beijing, China, Abstract. (Invited Presentation)
623. D. G. Whitten, L. V. Interrante, P. V. Kamat, and R. D. Rogers, "The Peer Review Process," Panel Presentation at the 25<sup>th</sup> Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-002. (Invited Presentation)
624. R. D. Rogers, L. V. Interrante, P. V. Kamat, and D. G. Whitten, "Getting Involved in the Scientific Publishing Process; What Does it Take?," Panel Presentation (Lead by R. D. Rogers) at the Panel Presentation at the 25<sup>th</sup> Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-001. (Invited Presentation)
625. L. V. Interrante, P. V. Kamat, R. D. Rogers, and D. G. Whitten, "What Constitutes Publishable Science," Panel Presentation at the Panel Presentation at the 25<sup>th</sup> Chinese Chemical Society Congress (2006), Changchun, China, Abstract 20-I-003. (Invited Presentation)
626. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Crystallization Solvents: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?," Presented by R. D. Rogers before the 25<sup>th</sup> Chinese Chemical Society Congress (2006), Changchun, China, Abstract 01-I-004. (Invited Presentation)



627. A. Haque, C. Mobeley, D. T. Daly, R. D. Rogers, R. P. Swatloski, and A. Ramasetty, "Effects of MAPP as Coupling Agent on the performance of Regenerated Cellulose Film Reinforced Polypropylene Composites," Presented by A. Haque before the American Society for Composites 21<sup>st</sup> Annual Technical Conference (2006), Dearborn, MI.
628. J. Fortunak, F. Ohwoavworhua, O. Kunle, and R. D. Rogers, "Valuable products from Nigerian elephant sawgrass," Presented by J. Fortunak before the 10<sup>th</sup> Annual Green Chemistry & Engineering Conference 'Designing for a Sustainable Future' (2006), Washington, DC, Abstract 145.
629. C. C. Hines, M. Smiglak, W. M. Reichert, S. T. Griffin, and R. D. Rogers, "Crystal engineering utilizing ionic liquids," Presented by C. C. Hines before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 552.
630. R. P. Planalp, G. Lu, D. P. Kennedy, M. W. Brechbiel, R. D. Rogers, R. Ma, F. M. Torti, and S. V. Torti, "The metal-complexation properties of cytotoxic tripodal hexadentate chelators: Effects of heterocycle donor arms on Fe(II) chelation and fibroblast IC50 value," Presented by R. P. Planalp before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract MEDI 260.
631. M. Smiglak, C. C. Hines, T. Wilson, W. M. Reichert, S. T. Griffin, R. D. Rogers, K. Kirichenko, S. Singh, and A. Vincek, "Ionic liquids based on azole anions," Presented by M. Smiglak before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 555.
632. M. Smiglak, D. M. Drab., C. C. Hines, W. M. Reichert, R. D. Rogers, K. Kirichenko, and A. Vincek, "Halide free synthesis of energetic azolium azolate salts," Presented by M. Smiglak before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 522.
633. W. M. Reichert, J. D. Holbrey, K. B. Vigour, T. D. Morgan, G. A. Broker, S. T. Griffin, C. C. Hines, and R. D. Rogers, "Stepping stones and stumbling blocks for the utilization of ionic liquids as crystallization solvents," Presented by W. M. Reichert before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 098.
634. N. J. Bridges, and R. D. Rogers "Investigation into ion-pairing of 1-butyl-3-methylimidazolium chloride in aqueous media," Presented by N. J. Bridges before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract PHYS 059.
635. N. J. Bridges, M. Smiglak, and R.D. Rogers "Synthesis of hydrogen carbonate ionic liquids through the Krapcho reaction," Presented by N. J. Bridges before the 232<sup>nd</sup> ACS National Meeting (2006), San Francisco, CA, Abstract I&EC 082.
636. R. D. Rogers and W. M. Reichert, "Approaches To Crystallization From Ionic Liquids: Complex Solvents-Complex Results – Or – A Strategy For Controlled Formation Of New Supramolecular Architectures," Presented by R. D. Rogers before the EUCHEM Conferences on Molten Salts and Ionic Liquids (2006), Hammamet, Tunisia, Abstract Book p 82.
637. R. D. Rogers, "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers before XVI Congresso Brasileiro de Engenharia Química - COBEQ (2006), Santos, Brazil, Abstract Book p 12. (Invited Plenary Presentation)
638. R. D. Rogers, V. A. Cocalia, L. Nunez "Crystallization of Actinide Complexes from Ionic Liquids", Presented by R. D. Rogers before the 15<sup>th</sup> International Symposium on Molten Salts part of the 2006 Joint International Meeting (210<sup>th</sup> Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 1989.
639. C. C. Hines, W. M. Reichert, S. T. Griffin, and R. D. Rogers, "Crystallization of new and interesting crystal structures in ionic liquids: Complex systems with complex results," Presented by C. C. Hines before the 15<sup>th</sup> International Symposium on Molten Salts part of the 2006 Joint International Meeting (210<sup>th</sup> Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 2021.
640. M. Smiglak, M. Dilip, N. J. Bridges, W. M. Reichert, and R. D. Rogers, "Formation of ionic liquid eutectic mixtures as a tool for melting point depression." Poster presented by M. Smiglak before the 15<sup>th</sup> International Symposium on Molten Salts part of the 2006 Joint International Meeting (210<sup>th</sup> Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 70 and 2022.
641. J. H. Poplin, D. Rudkevich, R. P. Swatloski, and R. D. Rogers, "Development of Liquid Membranes for NO<sub>x</sub> Gas Detection and Storage Utilizing Calix[4]Arenes in Ionic Liquids," Presented by J. H. Poplin before the 15<sup>th</sup> International Symposium on Molten Salts part of the 2006 Joint International Meeting (210<sup>th</sup> Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 83.
642. R. P. Swatloski, R. P. Broughton, N. Sun, M. Maxim, D. T. Daly, S. K. Spear, and R. D. Rogers, "A Look at Ionic Liquid Generated Cellulose and Modified Cellulose Fibers," Presented by R. P. Swatloski before the 15<sup>th</sup> International Symposium on Molten Salts part of the 2006 Joint International Meeting (210<sup>th</sup> Meeting of the Electrochemical Society Meeting/XXI Congreso de la Sociedad Mexicana de Electroquímica (2006), Cancun, Mexico, Abstract 1970.
643. R. D. Rogers, "What are Ionic Liquids," Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications* (2006), Orlando, FL, Abstract Book. (Co-Chair of the meeting)
644. R. D. Rogers, "Have You Considered the Unique Potential of Ionic Liquids as Crystallization Solvents?" Presented by R. D. Rogers before the ACS ProSpectives Series: *Crystallization Process Development: Case Studies & Research* (2007), Boston, MA.
645. R.D. Rogers and M. A. Abraham, "A 'Green' Industrial Revolution is in Our Future," Presented by R. D. Rogers and M. A. Abraham before the 233<sup>rd</sup> ACS National Meeting (2007), Chicago, IL, Abstract I&EC 046. (Invited Presentation)
646. J. H. Poplin, D. M. Rudkevich, and R. D. Rogers, "New Platforms for Immobilization of Calixarenes for Gas-Sensing and Trapping," Presented by R. D. Rogers before the 233<sup>rd</sup> ACS National Meeting (2007), Chicago, IL, Abstract I&EC 042. (Invited Presentation)

647. R.D. Rogers, N. J. Bridges, V. A. Cocalia, and K. E. Gutowski, "Separations, coordination, and solvation of f-elements in ionic liquids," Presented by R. D. Rogers before the 233<sup>rd</sup> ACS National Meeting (2007), Chicago, IL, Abstract NUCL 066. (Invited Presentation)
648. Sun, N.; Swatloski, R. P.; Maxim, M. L.; Broughton, Jr., R. M.; Spear, S. K.; Daly, D. T.; Haque, A.; Harland, A. G.; Rogers, R. D. "Cellulose Fibers Prepared from Direct Dissolution of Cellulose in Ionic Liquids," 4th International Conference of Textile Research Division National Research Centre, Cairo, Egypt; Textile Processing: State of the Art & Future Developments (2007), Abstract Page 16. Invited presentation, not presented due to illness.
649. R. D. Rogers, "The Evolution of Ionic Liquids: From Solvents to Materials to?? (and the New Business Opportunities that Follow)," Presented by R. D. Rogers before the Queen's University Ionic Liquid Laboratory 'Ionic Liquid Week' (2007), Belfast, Northern Ireland. (Invited Presentation)
650. R. D. Rogers, D. M. Drab, and M. Smiglak, "Ionic Liquids as a Unique and Versatile Platform for the Synthesis and Delivery of Energetic Materials," Presented by R. D. Rogers before the 54<sup>th</sup> Joint Army-Navy-NASA\_Air Force (JANNAF) Propulsion Meeting (2007), Denver, CO, Program Booklet page 62.
651. R. D. Rogers "A Green Industrial Revolution is in Our Future," Presented by R. D. Rogers before the Licensing Executives Society Spring Meeting (2007), Atlanta, GA.
652. R. D. Rogers, "A 'Green' Industrial Revolution is in Our Future: Are Ionic Liquids Pointing the Way?," Presented by R. D. Rogers before the 11<sup>th</sup> Annual Green Chemistry and Engineering Conference: "From Small Steps to Giant Leaps – Breakthrough Innovations for Sustainability" (2007), Washington, DC; Abstract 15. (Invited Plenary Presentation)
653. R. D. Rogers, "Task-Specific Ionic Liquids: What Does this Term Really Mean," Presented by R. D. Rogers before the International Symposium on Task-Specific Ionic Liquids (2007), Keio University, Yokohama, Japan, Abstract p 2. (Invited Presentation)
654. S. Schneider, T. Hawkins, M. Rosander, R. Rogers, D. Drab, M. Smiglak, and A. Vij "From Halides to Azides – Novel Ionic Liquid Azides as Energetic Materials," Presented by S. Schneider before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 2P03-43.
655. C. Rijkssen, M. Rahman, Y. Qin, N. Sun, M. Maxim, and R. D. Rogers, "Biomass: Dissolution, Separation, and Applications Enabled by Ionic Liquids," Presented by C. Rijkssen before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P04-055.
656. M. Smiglak, C. C. Hines, N. J. Bridges, D. M. Drab, and R. D. Rogers, "New Precursors for the Halide Free Synthesis of Ionic Liquids Utilizing the Chemistry of Dimethylcarbonate," Presented by M. Smiglak before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P03-047.
657. M. Smiglak, C. C. Hines, D. M. Drab, and R. D. Rogers "Novel Energetic Ionic Liquid Materials Composed Solely of C, H, N, and O," Presented by M. Smiglak before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 2P06-066.
658. A. Metlen, C. Rijkssen, W. L. Hough, M. Smiglak, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., and R. D. Rogers, "Ionic Liquids as Active Pharmaceutical Ingredients Exemplified by Lidocaine Docusate," Presented by A. Metlen before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract 1P09-094.
659. D. R. MacFarlane, P. M. Dean, J. Turanjanin, J. L. Scott, W. L. Hough, M. Smiglak, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., and R. D. Rogers, "'Drug'" Ionic Liquids - A New Phase for the Pharmaceutical World," Presented by D. R. MacFarlane before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract PL9.
660. R. D. Rogers, M. Smiglak, W. L. Hough, A. Metlen, H. Rodríguez, R. P. Swatloski, S. K. Spear, D. T. Daly, J. Pernak, J. E. Grisel, R. D. Carliss, M. D. Soutullo, J. H. Davis, Jr., J. L. Scott, D. R. MacFarlane, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials to Pharmaceuticals: Energetic and API Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before the 2<sup>nd</sup> International Congress on Ionic Liquids (COIL-2) (2007), Yokohama, Japan, Abstract LMA1. (Invited Lecture)
661. R. D. Rogers, "The Third Evolution of Ionic Liquids: Physical to Chemical to Biological Properties," Presented by R. D. Rogers before the International Symposium on Ionic Liquids and Life Sciences (2007), Yokohama, Japan. (Invited Keynote Lecture)
662. R. D. Rogers, M. Rahman, N. Sun, M. L. Maxim, G. Moyna, and P. Moyna, "Utilizing Ionic Liquids for Access to and Modification of Bio-renewable Polymers," Presented by A. Metlen (R. Rogers was delayed by air travel difficulties) before Europacat VIII (2007), Turku, Finland, Abstract K12-2. (Invited (Rogers) Keynote Address)
663. R. D. Rogers, "What are Ionic Liquids (ILs)?," Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids: Technical Innovations, Emerging Markets and Applications* (2007), Prague, Czech Republic, Abstract Book. (Invited Talk and Chair of the meeting)
664. R. D. Rogers, "Approaches to Crystallization From Ionic Liquids: Complex Solvents-Complex Results – or – A Strategy for Controlled Formation of New Supramolecular Architectures?" Presented before the 5<sup>th</sup> Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of *Crystal Growth & Design* (2007), Fuzhou, China, Abstract PL-03. (Invite Plenary Presentation)
665. R. D. Rogers, "Getting Involved in the Scientific Publishing Process with *Crystal Growth & Design*: What Does It Take?" Presented before the 5<sup>th</sup> Chinese National Symposium on Structural Chemistry and Symposium on Chinese Strategy of *Crystal Growth & Design* (2007), Fuzhou, China, Abstract PL-10. (Invite Plenary Presentation)

666. R. D. Rogers, "Separations, coordination, and solvation of f-elements in ionic liquids," Presented by R. D. Rogers before the 59<sup>th</sup> Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (2008), New Orleans, LA, Abstract 300-3. (Invited Symposium Presentation)
667. R. D. Rogers, "Green Chemistry and the New Transformational Platform Technologies Needed to Meet the Goals of Sustainability," Presented by R. D. Rogers before the Workshop in Green Chemistry Production of Essential Medicines in Developing Countries (2008), Abuja, Nigeria, No Abstract. (Invited Presentation)
668. R. D. Rogers, "Cracking Hydrocarbons: Direct Dissolution and Processing of Cellulosic and Related Biomass with Ionic Liquids Leading to New Materials," Presented by R. D. Rogers before the Workshop in Green Chemistry Production of Essential Medicines in Developing Countries (2008), Abuja, Nigeria, No Abstract. (Invited Presentation)
669. R. D. Rogers, M. Rahman, Y. Qin, N. Sun, M. L. Maxim, S. K. Spear, S. K. Mroczynski, and D. T. Daly, "New or Enhanced Materials from Biomass Utilizing the Unique Property Sets of Ionic Liquids," Presented by R. D. Rogers before the Materials Research Society Spring Meeting (2008), San Francisco, CA, Abstract Q1.1. (Invited Presentation)
670. N. Sun, R. P. Swatloski, M. L. Maxim, M. Rahman, A. G. Harland, A. Haque, S. K. Spear, D. T. Daly, and R. D. Rogers, "Cellulose Composite Fibers Prepared from Ionic Liquid-Based Solution," Presented by N. Sun before the 235<sup>th</sup> ACS meeting (2008), New Orleans, LA, Abstract CELL 285.
671. R. D. Rogers, M. Dilip, N. J. Bridges, M. Smiglak, D. B. Cordes, and K. Materna, "Utilization of hydrophilic ionic liquids in separations: Understanding and taming complexity," Presented by R. D. Rogers before the 235<sup>th</sup> ACS meeting (2008), New Orleans, LA, Abstract I&EC 078 (Invited Presentation).
672. R. D. Rogers, M. Rahman, Y. Qin, N. Sun, and M. L. Maxim, "Dissolution and processing of cellulosic and related biomass with ionic liquids: Fundamentals and applications," Presented by R. D. Rogers before the 235<sup>th</sup> ACS meeting (2008), New Orleans, LA, Abstract CELL 164 (Invited Presentation).
673. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before Current Status of Ionic Liquid Technology in Chemical Engineering Symposium; part of the Spring National Meeting of the Korean Institute of Chemical Engineering (2008), Jeju Island, Korea, Abstract C-2 p 82. (Invited presentation)
674. R. D. Rogers, "Ionic Liquids Beyond Solvents: Unprecedented Opportunities to Fine Tune Physical, Chemical, and Biological Properties," Presented by R. D. Rogers before the Gordon Research Conference on Organic Structures & Properties: Molecular Design & Supramolecular Assemblies (2008), Lucca (Barga), Italy, no abstract. (Invited Presentation)
675. R. D. Rogers, "The Nature of Ionic Liquids: Are they Green Solvent Replacements or Tunable Crystallization Agents for Proteins?" Presented by R. D. Rogers before the 12<sup>th</sup> International Conference on the Crystallization of Biological Macromolecules (2008), Cancun, Mexico, Abstract Book Page 23. (Invited Keynote Lecture)
676. R. M. Frazier, W. L. Hough-Troutman, D. T. Daly, and Robin D. Rogers, "Microencapsulation of Active Nutraceutical Ingredients for Controlled Delivery," Presented by R. M. Frazier before Particles 2008, Particle Synthesis, Characterization, and Particle-Based Advanced Materials (2008), Orlando, Florida. Abstract B1.18.
677. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before the 3<sup>rd</sup> Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book. (Invited presentation)
678. M. Smiglak and R. D. Rogers, "Protocols for halide free synthesis of ionic liquids via hydrogen carbonate precursors: Design of Ionic Liquid Energetic Materials," Presented by M. Smiglak before the 3<sup>rd</sup> Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book.
679. W. Hough-Troutman, M. Smiglak, J. Pernak, D. T. Daly, and R. D. Rogers, "Ionic Liquids for Application in the Food Industry," Presented by W. L. Hough-Troutman before the 3<sup>rd</sup> Australian Symposium on Ionic Liquids (2008), Melbourne, Australia, Abstract Book.
680. R. D. Rogers, "The Evolution of Ionic Liquids – From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers before the Danish Chemical Society Kemisk Forenings Årsmøde (2008), Odense, Denmark, Abstract. (Invited Plenary Presentation)
681. R. D. Rogers, "Separation & Bioprocessing with Ionic Liquids," Presented by R. D. Rogers at the 1<sup>st</sup> Ionic Liquid Workshop "Ionic Liquid: The Future Solvent for Oil and Gas Industries" (2008), Glenmarie, Malaysia. (Invited Keynote Lecture)
682. R. D. Rogers, "Ionic Liquid Patents and Technology Development," Presented by R. D. Rogers at the 1<sup>st</sup> Ionic Liquid Workshop "Ionic Liquid: The Future Solvent for Oil and Gas Industries" (2008), Glenmarie, Malaysia. (Invited Keynote Lecture)
683. R. D. Rogers, Marcin Smiglak, and David M. Drab "A Modular 'Ionic Liquid' Platform for the Custom Design of Energetic Materials," Presented by R. D. Rogers at the Energetic Ionic Liquids Workshop (2008), Colorado Springs, CO; no abstract. (Invited Presentation)
684. R. D. Rogers, "Approaches to the Understanding and Utilization of Unique Ionic Liquid Properties: Physical (Solvents), Chemical (Energetic Materials), and Biological (Pharmaceuticals)," Presented by R. D. Rogers before the 20<sup>th</sup> International Conference on Chemical Thermodynamics (2008), Warsaw, Poland, Abstract IL-In-1, p 181. (Invited Lecture)
685. R. D. Rogers, "How I&EC supports innovative technologies for a sustainable future and those who will develop them," Presented by R. D. Rogers before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract PRES 005. (Invited Presentation)
686. R. D. Rogers, "Ionic liquids: Growth of a field through the eyes of the I&EC division," Presented by R. D. Rogers before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 079. (Invited Presentation)

687. D. R. MacFarlane, J. L. Scott, and R. D. Rogers, "Drug" ionic liquids: A new phase for the pharmaceutical world," Presented D. R. MacFarlane before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract ORGN 302.
688. M. Smiglak and R. D. Rogers, "Protocols for halide free synthesis of ionic liquids via hydrogen carbonate precursors," Presented by M. Smiglak before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 200.
689. R. D. Rogers, "From crystalline salts to ionic liquids and back again: In the hunt for novel separations," Presented by R. D. Rogers before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 003. (Invited Presentation)
690. W. L. Hough-Troutman, M. Smiglak, J. Pernak, D. T. Daly, and R. D. Rogers, "Sweetener and antibacterial ionic liquids," Presented by W. L. Hough-Troutman before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 183.
691. J. L. Scott, D. R. MacFarlane, P. Dean, J. Turanjanin, and R. D. Rogers, "An anticrystal engineering approach to functional ionic liquids," Presented by J. L. Scott before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 178.
692. G. Gurau, K. Rogers, and R. D. Rogers, "Caffeine ionic liquids – dream or reality?" Presented by G. Gurau before the 236<sup>th</sup> ACS National Meeting (2008), Philadelphia, PA, Abstract I&EC 111.
693. R. D. Rogers, "What are Ionic Liquids?" Presented by R. D. Rogers at the Intensive Seminar of the Crystallization Technical Group of the Association of Powder Process Industry and Engineering (APPIE) (2008), Tokyo, Japan, Abstract Booklet. (Invited Plenary Lecture)
694. G. Gurau, V. Cocalia, and R. D. Rogers, "Separations, Coordination, and Solvation in Ionic Liquids: What is There That is Unique?" Presented by R. D. Rogers at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ, Abstract 266. (Invited Keynote Presentation)
695. R. D. Rogers, "Ionic Liquids and Solvent Extraction," Presented by R. D. Rogers in the Solvent Extraction Short Course at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ. (Invited Instructor)
696. R. D. Rogers, J. Chen, H. L. Yang, and D. Q. Li, "Preliminary Investigation of the Kinetics of the Separation of Yttrium(III) Using Cyanex 923 and Ionic Liquids," Presented by R. D. Rogers at the International Solvent Extraction Conference: Solvent Extraction - Fundamentals to Industrial Applications (2008), Tucson, AZ, Abstract 87.
697. R. D. Rogers, "Ionic liquids for the dissolution of biomass: Where can this lead?" Presented by R. D. Rogers before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 25 (Invited Keynote Presentation)
698. M. Dilip, S. T. Griffin, S. K. Spear, H. Rodríguez, and R. D. Rogers, "Aqueous biphasic extraction chromatographic (ABEC) resins based on polyethylene glycol as an alternative for the removal of perchlorate from aqueous media" Presented by H. Rodríguez before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 109.
699. M. Francisco, H. Rodríguez, M. Rahman, and R. D. Rogers, "Liquid-liquid equilibria of mixtures of polyethylene glycol and ionic liquid: biphasic systems for high temperature applications" Presented by H. Rodríguez before the Green Solvents – Progress in Science and Application conference (2008), Friedrichshafen, Germany, Abstract Book, p 112.
700. R. D. Rogers, Invited Panelist at the Royal Institution of Great Britain Event "The Best President for Science" (2008), London, United Kingdom. (Invited Lecture).
701. R. D. Rogers, "Approaches to the Understanding and Utilization of Unique Ionic Liquid Properties: Physical (Solvents), Chemical (Energetic Materials), and Biological (Pharmaceuticals)," Presented by R. D. Rogers before the International Bunsen Discussion Meeting "Influence of Ionic Liquids on chemical and physicochemical reactions" (2008), Clausthal, Germany, Abstract Book p 63. (Invited Plenary).
702. R. D. Rogers, "At the Intersection of Cocrystals and Ionic Liquids," Presented by R. D. Rogers before the Indo-US Bilateral Workshop on Pharmaceutical Co-Crystals and Polymorphs (2009), Mysore, India, Abstract Book p 22. (Invited Lecture).
703. R. D. Rogers, "Getting Involved in the Scientific Publishing Process with *Crystal Growth & Design*: What Does it Take?," Presented by R. D. Rogers at the 38<sup>th</sup> National Seminar on Crystallography (2009), Mysore, India, Abstract-Supplement to Abstract Book. (Invited Special Presentation)
704. R. D. Rogers, K. R. Seddon, M. Smiglak, and D. F. Wassell, "Ionic Liquids: Tailoring Unique, Multiply Redundant Liquids for Space Applications," Presented by R. D. Rogers before the Space, Propulsion & Energy Sciences International Forum (SPESIF-2009), Huntsville, AL Abstract Book Section W4.1.1.2.
705. R. D. Rogers, "From Green Chemistry to a 'Green' Industrial Revolution: Are Ionic Liquids Pointing the Way?," Presented by R. D. Rogers before the 237<sup>th</sup> ACS National Meeting (2009), Salt Lake City, UT, Abstract YCC 011. (Invited Presentation)
706. R. D. Rogers, S. Mroczynski, S. K. Spear, M. Rahman, N. Sun, and D. T. Daly "Utilizing the Unique Properties of Ionic Liquids to Prepare Advanced Composite Fibers," Presented by R. D. Rogers before the 6<sup>th</sup> International Conference of Textile Research Division National Research Centre, Cairo, Egypt; Textile Processing : State of the Art & Future Developments (2009), Cairo, Egypt, Abstract Book Page 9 (4/5/09). (Invited Plenary Presentation)
707. R. D. Rogers, "Ionic Liquids as Active Pharmaceutical Ingredients," Presented by R. D. Rogers before Molecules, Materials, Medicines (M3-2009) an International Conference on the Role of Materials Science and Engineering in Drug Development (2009), Santa Barbara, CA. (Invited Presentation)
708. R. D. Rogers, K. Bica, G. Gurau, M. Smiglak, H. Rodríguez, and J. Shamshina, "Ionic Liquids at the Intersections," Presented by R. D. Rogers before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Oral 41. (Invited Plenary Presentation)
709. K. Bica and R. D. Rogers, "Confused Ions in Ionic Liquids Pharmaceutically Active Ionic Liquids composed of Oligomers,"



- Presented by K. Bica before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 52.
710. H. Rodríguez, M. Francisco, and R. D. Rogers, "Polymer/Ionic Liquid Aqueous Biphasic Systems," Presented by H. Rodríguez before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 158.
  711. H. Rodríguez, and R. D. Rogers, "Biphasic, Non-Volatile, Liquid Mixtures of Polyethylene Glycols or Polypropylene Glycols with Hydrophilic Imidazolium Ionic Liquids," Presented by H. Rodríguez before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 157.
  712. M. F. Taha, G. Srinivasan, J. D. Holbrey, and R. D. Rogers, "Standard reduction potentials ionic liquids containing polyhalide anions ( $[XY_2]^-$ , where X and Y are Cl, Br, I)," Presented by M. F. Taha before the 3<sup>rd</sup> Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 100.
  713. G. Gurau and R. D. Rogers, "At the Intersection of Cocrystals and Ionic Liquids", Presented by G. Gurau before the 3<sup>rd</sup> Congress on Ionic Liquid (COIL-3) (2009), Cairns, Australia, Abstract Poster 211.
  714. M. Abai, G. Srinivasan, Y. Zou, J. D. Holbrey, R. D. Rogers, "Ionic Liquid Thiuronium Salts," Presented by M. Abai before the 3<sup>rd</sup> Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 323.
  715. C. D. Wilfred, S. Shukla, J. D. Holbrey, R. D. Rogers, "Microwave optimized synthesis of N-butyl-N-methylpyrrolidinium methylcarbonate; a functional precursor to the diversity synthesis of ionic liquids," Presented by J. D. Holbrey before the 3<sup>rd</sup> Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 324.
  716. W. L. Hough-Troutman, J. Shamshina, M. Smiglak, and R. D. Rogers, "The Synthesis and Characterization of Caine Ionic Liquids," Presented by W. L. Hough-Troutman before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 325.
  717. M. Huszár, A. Varga, A. Metlen, A. Horváth, T. Vántus, H. Rodríguez, M. Idei, G. Kéri, and R. D. Rogers, "Analytical and biological study of a new hydroxyquinoline-based library," Presented by M. Huszár and A. Varga before the 3<sup>rd</sup> International Congress on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 326.
  718. A. Metlen, R. D. Rogers, "Syntheses and characterization of dithiocarbamate salts and ionic liquids," Presented by A. Metlen before the 3<sup>rd</sup> Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 340.
  719. A.-F. Ngomisk and R. D. Rogers, "From ferrofluids to magnetic ionic liquids: New smart fluids in separation process," Presented by A.-F. Ngomisk before the 3<sup>rd</sup> Conference on Ionic Liquids (COIL-3) (2009), Cairns, Australia, Abstract Poster 343.
  720. R. D. Rogers, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before the joint 9<sup>o</sup> Encontro Nacional de Química Física/1<sup>st</sup> Iberian Meeting on Ionic Liquids (2009), Aveiro, Portugal, Abstract Book p 4. (Invited Plenary Presentation)
  721. R. D. Rogers, "Separations using Ionic Liquids; What is there that is unique?," Presented by R. D. Rogers before the 15<sup>th</sup> International Conference on Biopartitioning and Purification (2009), Uxbridge, UK, Abstract K-8. (Invited Keynote Presentation)
  722. A. N. Lovich, J. E. Lockhard, R. L. White, M. M. Bailey, J. F. Rasco, M. B. Henson, P. L. Jernigan, J. Sturdivant, R. P. Swatloski, R. D. Rogers, and R. D. Hood, "A Comparison of the Effects of Prenatal Exposure of CD-1 Mice to Three Imidazolium-based Ionic Liquids," Teratology Society, Presented by M. M. Bailey before the 49th Annual Meeting of the Teratology Society (2009), Rio Grande, Puerto Rico, Abstract P31 (*Birth Defects Research (Part A)* **2009**, 85, 431.
  723. W. L. Hough-Troutman, C. Troutman, M. Smiglak, J. Shamshina, D. Daly, and R. Rogers, "PDH Technologies, Inc. experience in raising funds in a university environment," Presented by W. L. Hough-Troutman before the before the 238<sup>th</sup> ACS National Meeting (2009), Washington, DC, Abstract BMGT 010.
  724. R. D. Rogers and N. Sun, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before the Joint Conference: The 4th International Conference on Green and Sustainable Chemistry (GSC-4) & the 2nd Asian-Oceanian Conference on Green and Sustainable Chemistry (AOC-2) (2009), Beijing, China, Abstract PL-8; p. 9. (Invited Plenary Speaker)
  725. R. D. Rogers, "Aspects of the Application of Ionic Liquids in the Separations of f-Elements: Coordination and Solvation," Presented by R. D. Rogers before the 7<sup>th</sup> International Conference on f-Elements ,ICfE-7 (2009), Cologne, Germany, Abstract P12. (Invited Plenary Speaker)
  726. R. D. Rogers and N. Sun, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the Sixteenth Symposium on Separation Science and Technology for Energy Applications (2009), Gatlinburg, TN, Abstract Book p. 30. (Invited Speaker)
  727. H. Rodríguez, M. Francisco, M. Rahman, and R. D. Rogers, "Biphasic liquid mixtures of imidazolium-based chloride ionic liquids and polyethylene glycols," Presented by H. Rodríguez before the 24<sup>th</sup> European Symposium on Applied Thermodynamics (ESAT-24) (2009), Santiago de Compostela, Spain, Abstract Book, p. 144.
  728. R. D. Rogers, "The Hidden Commercial Opportunities for Ionic Liquids" Presented by R. D. Rogers before the Intertech Pira Conference *Ionic Liquids* (2009), Miami Beach, FL, Abstract on cd. (Invited Talk and Co-Chair of the meeting)
  729. R. D. Rogers and N. Sun, "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers before Society of Environmental Toxicology and Chemistry (SETAC) North America 30<sup>th</sup> Annual Meeting (2009), New Orleans, LA, Abstract 431; p. 100. (Invited Speaker)
  730. P. E. Clark, R. Boyle, J. Ku, B. Beaman, R. D. Rogers, M. Smiglak, S. Nagihara, G. Knowles, M. Bradley, M. B. Milam, "Geothermal System Designs for Lunar Surface Environment Science Activities," Presented by P. E. Clark before the Annual Meeting of the Lunar Exploration Analysis Group (LEAG 2009) (2009), Houston, TX.

731. R. D. Rogers, "What are the greatest challenges for increasing the contribution of green chemistry to the larger scientific community, i.e. what is holding green chemistry back?" Panel Presentation by R. D. Rogers at the National Academies/National Research Council Green Chemistry and Sustainability Project Initiation Meeting (2009), Washington, DC, No Abstract.
732. R. D. Rogers, "Crystallization Process in Ionic Liquids," Presented by R. D. Rogers before the Symposium on Green Process for Particle Production (2010), Kyoto, Japan; Abstract Book pp 7-11. (Invited Keynote Lecture)
733. M. Smiglak, G. T. Parker, R. D. Rogers, "Thermal conductivities of ionic liquid-regolith mixtures: Improving heat transfer for innovative thermal and power systems at the Lunar surface," Presented by M. Smiglak before SPESIF-2010 Space, Propulsion & Energy Sciences International Forum, Johns Hopkins University Applied Physics Laboratory, Laurel, MD, February 23-26, 2010, Abstract 068.
734. R. D. Rogers, "Ionic Liquids: Are the applications of ionic liquids as materials more important than the use of ionic liquids as solvents?" Presented by R. D. Rogers before EUCHEM 2010 Conference on Molten Salts and Ionic Liquids (2010), Bamberg, Germany, Abstract Book p 89. (Invited Keynote Lecture)
735. K. Bica, P. Gaertner, and R. D. Rogers, "Ionic Liquids and Fragrances: Isolation of Essential Oils from Biomass," Presented by K. Bica before EUCHEM 2010 Conference on Molten Salts and Ionic Liquids (2010), Bamberg, Germany, Abstract LMP 47, Abstract Book p 343.
736. B. Stoner, N. Sun, and R. D. Rogers, "Dissolution and regeneration of wood in [C<sub>2</sub>mim]OAc and formation of wood composite fibers," Presented by B. Stoner before the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA, Abstract CHED 725.
737. N. Sun, X. Jiang, M. L. Maxim, R. D. Rogers, "Wood delignification using polyoxometalates in ionic liquid," Presented by R. D. Rogers before the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA, Abstract FUEL 014. (Invited Speaker)
738. M. Smiglak, G. Gurau, D. M. Drab, J. L. Shamshina, S. P. Kelley, V. Cocalia, S. T. Griffin, A.-V. Mudring, and R. D. Rogers, "Crystallization of actinides from ionic liquids," Presented by R. D. Rogers before the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA, Abstract NUCL 016. (Invited Speaker)
739. G. Gurau and R. D. Rogers, "Importance of benchmarking Green Chemistry," Presented by R. D. Rogers before the 239<sup>th</sup> ACS National Meeting (2010), San Francisco, CA, Abstract CINF 026. (Invited Speaker)
740. R. D. Rogers, "Ionic Liquids Laboratory to Commercialization," Presented by R. D. Rogers before the Home for Foreign Experts – Meeting of the Chinese Academy of Sciences Senior International Scientists and Young Fellows (2010), Beijing, China; No Abstract. (Invited Plenary presentation).
741. B. J. Herring, A. L. Logsdon, A. N. Lovich, J. E. Lockard, E. R. Janzen, J. F. Rasco, K. R. Di Bona, R. D. Hood, R. P. Swatloski, R. D. Rogers, and M. M. Bailey, "Anion Influence on the Toxicity of Short-Chain Imidazolium-Based Ionic Liquids in CD-1 Mice," Presented by B. J. Herring before the 50<sup>th</sup> Annual Meeting of the Teratology Society (2010), Louisville, KY, Abstract P41 (*Birth Defects Research (Part A)* **2010**, 88, 392).
742. W. Li, N. Sun, B. Stoner, X. Lu, and R. D. Rogers, "How can we improve the dissolution and recovery of biopolymers from biomass in ionic liquids specifically for biofuels applications?" Presented by R. D. Rogers before the 240<sup>th</sup> ACS National Meeting (2010), Boston, MA, Abstract FUEL 061. (Invited Plenary Speaker)
743. R. D. Rogers, G. Gurau, and D. T. Daly, "Open innovation and the faculty entrepreneur: opportunities and perils," Presented by R. D. Rogers before the 240<sup>th</sup> ACS National Meeting (2010), Boston, MA, Abstract BMGT 037. (Invited Speaker)
744. R. D. Rogers and Ning Sun, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the 2<sup>nd</sup> Asia Pacific Conference on Ionic Liquids and Green Processes (2010) (APCIL-2), Dalian, China, Abstract Book page 27. (Invited Plenary Presentation)
745. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials, Presented by R. D. Rogers before the AFOSR Review for Organic Materials Chemistry and Molecular Design and Synthesis (2010), National Harbor, MD, Abstract.
746. R. D. Rogers, "How can we improve the dissolution and recovery of biopolymers from biomass in ionic liquids specifically for biofuels applications?" Presented by R. D. Rogers before *Frontiers in Biorefining: Biobased Products from Renewable Carbon* (2010), St. Simons Island, GA, Abstract Book p 11. (Invited Speaker)
747. N. Sun, X. Jiang, W. Li, X. Lu, and R. D. Rogers, "Wood Pulping Using Ionic Liquids," Presented by G. Gurau substituting for R. D. Rogers before the 4<sup>th</sup> International Symposium on Emerging Technologies of Pulping and Papermaking, 4<sup>th</sup> ISETPP (2010), Guangzhou, China, Abstract. (Invited Plenary Lecture)
748. R. D. Rogers, N. Sun, and Y. Qin, "The unique ability of ionic liquids to dissolve raw biopolymers such as cellulose and chitin, provides an opportunity to develop analytical techniques for molecular weight determination," Presented by R. D. Rogers before the 2010 International Chemical Congress of Pacific Basin Societies, Pacificchem 2010 (2010), Honolulu, HI, Abstract ANYL 870. (Invited Presentation)
749. R. D. Rogers, M. Smiglak, and J. Shamshina, "Azolium azolate ionic liquids from reactions of neutral azoles with 1,3-dimethylimidazolium-2-carboxylate, 1,2,3-trimethylimidazolium hydrogen carbonate, and *N,N*-dimethylpyrrolidinium hydrogen carbonate," Presented by R. D. Rogers before the 2010 International Chemical Congress of Pacific Basin Societies, Pacificchem 2010 (2010), Honolulu, HI, Abstract ENVI 237. (Invited Presentation)
750. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the 1<sup>st</sup> Japanese Symposium on Ionic Liquids (2011), Tottori, Japan, Abstract Book PL-01 pp 1-2. (Invited Plenary Presentation)

751. R. D. Rogers, "Where are ionic liquids strategies most suited in the pursuit of chemicals and energy from lignocellulosic biomass?" Presented by R. D. Rogers before the 2<sup>nd</sup> Annual Next Generation Bio-Based Chemicals Summit, Bringing Together the Value Chain for Drop-In and New Chemicals (2011), San Diego, CA, Published Presentation. (Invited Keynote Presentation)
752. N. Pogodina, E. Metwalli, P. Müller-Buschbaum, J. Shamshina, R. D. Rogers, and C. Friedrich, "Structure and Dynamics of Azolium-Azolate Ionic Liquids," Presented by N. Pogodina before the DFG-SPP 1191 Priority Program Spring 2011 meeting (Potsdam, Germany); Abstract.
753. S. P. Kelley, T. G. Parker, and R. D. Rogers, "Actinide chemistry in ionic liquids," Presented by Steven Kelley before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 029.
754. S. P. Kelley, T. G. Parker, and R. D. Rogers, "Actinide complexes with *N*-donors from ionic liquids," Presented by Steven Kelley before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract NUCL 057.
755. P. D. McCrary, M. Smiglak, S. K. Spear, N. S. Bates, D. T. Daly, and R. D. Rogers, "Release of Ionic Liquid-Active Pharmaceutical Ingredients from Biopolymeric Beads," Presented by P. D. McCrary before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 106.
756. G. Gurau and R. D. Rogers, "Ionic liquids as active pharmaceutical ingredients (IL-APIs) – the challenges of commercialization," Presented by G. Gurau before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 119.
757. J. Shamshina, M. Smiglak, D. M. Drab, and R. D. Rogers, "Energetic Ionic Liquids," Presented by J. Shamshina before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 107.
758. D. Daly, R. Rogers, and Y. Qin, "Amine-CO<sub>2</sub>: Tunable Approach for Ionic Liquid Supported Biomass Production and IL Recovery," Presented by D. Daly before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 117.
759. J. R. Canada, P. D. McCrary, G. Gurau, and R. D. Rogers, "Building a Career in Chemistry: The Importance of Undergraduate Research," Presented by J. R. Canada before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 120.
760. C. Sharma, C. Hines, and R. D. Rogers, "Temperature Controlled Release of Nicotine from its Metal Complexes," Presented by C. Sharma before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 028.
761. H. Rodríguez, S. Lago, M. Francisco, M. J. Earle, J. H. Holbrey, K. R. Seddon, R. D. Rogers, A. Soto, and A. Acre, "Ionic Liquids for Improved Liquid-Liquid Extraction Processes," Presented by H. Rodríguez before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 101.
762. M. Francisco, H. Rodríguez, N. Sun, M. Rahman, J. F. Pereira, M. G. Freire, L. P. Rebelo, J. A. Coutinho, and R. D. Rogers, "Biphasic Liquid-Liquid Systems Based on Ionic Liquids and Polyethylene Glycols," Presented by M. Francisco before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 103.
763. R. D. Rogers, "Award Address (ACS Award in Separations Science & Technology): Ionic Liquids form There to Here," Presented by R. D. Rogers before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract I&EC 148. (Invited Award Address)
764. R. D. Rogers, "An Editor's Perspective on Contentious Issues Arising During Peer Review," Presented by R. D. Rogers before the 241<sup>st</sup> ACS National Meeting (2011), Anaheim, CA, Abstract CHED 1236. (Invited Presentation)
765. P. D. McCrary, P. A. Beasley, R. D. Rogers, T. W. Hawkins, S. Schneider, J. P. Perez, B. W. McMahon, S. L. Anderson, and S. Son "Loading Metal Nanoparticles in Energetic Ionic Liquids," Presented by P. D. McCrary before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (May 15-17, 2011), Pasadena, CA, Abstract.
766. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials," Presented by R. D. Rogers before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (May 15-17, 2011), Pasadena, CA, Abstract.
767. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design*: An Editor's Perspective (*so pay attention!*)," Presented by R. D. Rogers before the American Crystallographic Association 2011 Annual Meeting (May 28 – June 2, 2011), New Orleans, LA Abstract 08.04.6. (Invited presentation)
768. J. F. B. Pereira, M. G. Freire, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids and their Ability to Extract Biomolecules," Presented by M. G. Freire before the 2<sup>nd</sup> Iberian Meeting on Ionic Liquids (2<sup>nd</sup> IMIL) (2011), Santiago de Compostela and A Coruña, Galicia, Spain, Abstract.
769. H. Wang, G. Gurau, M. L. Maxim and R. D. Rogers, "Microwave-assisted dissolution and delignification of wood using 1-ethyl-3-methylimidazolium acetate ([emim]OAc)," Presented by H. Wang before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 368.
770. A. Narita, Parker D McCrary, John R Canada and R. D. Rogers, "Synthesis of ionic liquids consisting of FDA approved compounds", Presented by A. Narita before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 256.
771. G. Gurau, H. Rodríguez, S. P. Kelley, and R. D. Rogers, "Looking at the reactivity of 1-ethyl-3-methylimidazolium acetate with CO<sub>2</sub> and biomass from crystal structures: Will chemistry explain the controversies?," Presented by G. Gurau before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 310.
772. S. P. Kelley, E. S. Stoner, T. G. Parker, R. D. Rogers, "Ionic Liquids and Actinides: Unique Environments for f-Element Chemistry", Presented by S. P. Kelley before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D.C., Abstract 86.



773. P. D. McCrary, P. A. Beasley, T. W. Hawkins, S. Schneider, J. Paulo Perez, B. W. McMahon, S. L. Anderson, S. Son and R. D. Rogers, "Loading Metal Nanoparticles in Energetic Ionic Liquids", Presented by P. D. McCrary before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 213.
774. E. Stoner, S. Kelley, and R.D. Rogers, "Role of ionic liquids in the future of the thorium based nuclear fuel cycle", Presented by E. Stoner before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington DC, Abstract 333.
775. P. A. Beasley, P. D. McCrary, and R. D. Rogers, "New Generation of Energetic Materials based on Novel Asymmetric Multi-heterocyclic Architectures", Presented by P. A. Beasley before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, DC, Abstract 93.
776. J. R. Canada, P. D. McCrary, P. A. Beasley, A. Narita, R. D. Rogers, "Ionic Liquids Comprised of Biologically Active Amines", Presented by J. R. Canada before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 75.
777. J. Shamshina, H. W. H. Dykes, A. J. Reich, R. DiSalvo, M. Smiglak, and R. D. Rogers, "Catalytic ignition of ionic liquids for propellant applications," Presented by J. Shamshina before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 11.
778. M. G. Freire, J. F. B. Pereira, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Novel aqueous biphasic systems composed of ionic liquids and polyethylene glycols: Phase diagrams and extraction ability," Presented by M. G. Freire before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 17.
779. S. Y. Choi, H. Rodríguez, A. Mirjafari, D. F. Gilpin, S. McGrath, K. R. Malcolm, M. M. Tunney, R. D. Rogers, and Tony McNally, "Dual functional ionic liquids as plasticisers and antimicrobial agents for medical polymers, Presented by H. Rodríguez before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 201.
780. R. M. Frazier, D. T. Daly, W. L. Hough, S. K. Spear, and R. D. Rogers, "New Ionic Liquids for Active Layers in Photovoltaics," Presented by R. M. Frazier before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 436.
781. N. V. Pogodina, E. Metwalli, P. Müller-Buschbaum, G. Dlubek, J. Shamshina, R. D. Rogers, and C. Friedrich, "Molecular structure and dynamics of Azolium-Azolate ionic liquids," Presented by N. V. Pogodina before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 54.
782. C. P. Azubuike, H. Rodríguez, A. O. Okhamafe, and Robin D. Rogers, "Physicochemical properties of maize cob cellulose powders reconstituted from ionic liquid solution," Presented by H. Rodríguez before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 71.
783. O. A. Cojocar, J. L. Shamshina, J. P. Edgeworth, G. Gurau, R. S. Ruoff, and R. D. Rogers, "Improved Electrical Energy Storage with Electrochemical Double Layer Capacitance Based on Novel Carbon Electrodes," Presented by O. A. Cojocar before the 4<sup>th</sup> Congress on Ionic Liquids (COIL-4) (June 15-18, 2011), Washington, D. C., Abstract 160.
784. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Joint Bioenergy Institute/Energy Biosciences Institute Workshop Lignin, Characterization, Extraction, & Adding Value (July 18-19, 2011), Emeryville, CA, No Abstract. (Invited Presentation)
785. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design* and Contentious Issues arising During Peer Review: An Editor's Perspective," Presented by R. D. Rogers before the 8<sup>th</sup> National Conference on Inorganic Chemistry (July 26-28, 2011), Harbin, China, Abstract 26M-PL-003. (Invited Plenary Presentation).
786. R. D. Rogers, "Crystallographic Publication in the American Chemical Society Journal *Crystal Growth & Design* and Contentious Issues arising During Peer Review: An Editor's Perspective (*so pay attention!*)," Presented by R. D. Rogers before the IUCr 2011 Satellite Workshop Categorizing Halogen Bonding and other Noncovalent Interactions Involving Halogen Atoms (Aug. 20-21, 2011), Sigüenza, Spain, Abstract Book p 49. (Invited Plenary). ([http://www.iucr2011madrid.es/images/stories/pdf/Book\\_of\\_abstracts.pdf](http://www.iucr2011madrid.es/images/stories/pdf/Book_of_abstracts.pdf)).
787. D. T. Daly, R. D. Rogers, and G. Gurau, "Disruptive technology for biomass processing using ionic liquids," Presented by D. T. Daly before the 242<sup>nd</sup> ACS National Meeting (Aug. 28 – Sept. 1, 2011), Denver, CO, Abstract BMGT 015.
788. J. F. B. Pereira, M. G. Freire, M. Francisco, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho, "Biomolecules Separation using Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids," Presented by J. F. B. Pereira before IL SEPT (Sept. 4-7, 2011), Sitges, Spain, Abstract K09.
789. R. D. Rogers "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the 6<sup>th</sup> Asian Pacific Chemical Engineering Symposium, APCRE11 (Sept. 18-21, 2011), Beijing, China, Abstract Book p 1. (Invited Plenary Speaker)
790. P. S. Barber, S. P. Kelley, and R. D. Rogers, "Design and Coordination of f-elements with Amidoxime-Functionalized Ionic Liquids," Presented by P. S. Barber before the 17<sup>th</sup> Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 621.
791. S. P. Kelley, E. L. Stoner, and R. D. Rogers, "N-Donor Ionic Liquids as Unique Environments for f-Element Chemistry," Presented by S. P. Kelley before the 17<sup>th</sup> Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 617.
792. C. S. Griggs, S. L. Larson, J. H. Ballard, P. S. Barber, and R. D. Rogers, "Optimization and Evaluation of Uranium Sorptive Biomaterials," Presented by C. S. Griggs before the 17<sup>th</sup> Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 113.

793. E. L. Stoner, S. P. Kelley, and R. D. Rogers, "Application of Ionic Liquids for Separations in the Thorium Nuclear Fuel Cycle," Presented by E. L. Stoner before the 17<sup>th</sup> Symposium on Separation Science and Technology for Energy Applications (Oct. 23–27, 2011), Gatlinburg, TN, Abstract 618.
794. J. F. B. Pereira, M. G. Freire, H. Rodríguez, L. P. N. Rebelo, R. D. Rogers, and J. A. P. Coutinho "Insights into the Interactions that Control the Phase Behaviour of Novel Aqueous Biphasic Systems Composed of Polyethylene Glycols and Ionic Liquids," Presented by J. F. B. Pereira before MicroBiotec'11 (December 1-3, 2011), Braga, Portugal.
795. R. D. Rogers, "Preparation of High Purity, High Molecular Weight Chitin Nanofibers from Direct Extraction from Shrimp Shells with ILs for Use as an Adsorbate for Uranium from Seawater," Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 12 Working Group Meeting (January 5–6, 2012), Oak Ridge, TN (No Abstract).
796. R. D. Rogers, "How an Understanding of Solid State Interactions can be Used to Prevent Solidification; the Case for Pure Pharmaceutical Liquid Salts and Cocrystals," Indo-US Bilateral Meeting on the Evolving Role of Solid State Chemistry in the Pharmaceutical Science (February 2-4, 2012), Manesar, India, Abstract Book pp 38-39. (not presented due to illness)
797. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers before the Indo-US Workshop on Green Chemistry for Environments and Sustainable Development (March 11-13, 2012), Dehradun, India, Abstract PL-2 p 7. (Plenary Speaker)
798. D. T. Daly, R. M. Frazier, Y. Qin, S. K. Spear, W. L. Hough, and R. D. Rogers, "Ionic liquids: A platform for innovation," Presented by R. M. Frazier before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 261.
799. R. D. Rogers, O. A. Cojocaru, A. Siriwardana, H. Holding, K. Bica, H. Rodriguez, G. Gurau, A. Riisager, and R. Fehrmann, "Ionic liquid active pharmaceutical ingredients loaded on silica: Solids handling for liquid pharmaceutical forms," Presented by R. D. Rogers before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 093. (Invited Award Presentation)
800. G. Gurau and R. D. Rogers, "Ionic liquids and shrimp shell waste – emerging technologies for the manufacture of nanochitin materials," Presented by G. Gurau before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 117.
801. H. Wang, G. Gurau, and R. D. Rogers, "Membrane transport of active pharmaceutical ingredient-based ionic liquids," Presented by H. Wang before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 292.
802. O. A. Cojocaru, G. Gurau, D. T. Daly, J. Pernak, and R. D. Rogers, "Improved Efficacy and Delivery of Herbicides in Ionic Liquid Form," Presented by O. A. Cojocaru before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 324.
803. P. A. Beasley, O. A. Cojocaru, P. D. McCrary, and R. D. Rogers, "Energetic Ionic Liquid 'Liquid Clathrates'," Presented by P. A. Beasley before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 008.
804. P. D. McCrary, P. A. Beasley, O. A. Cojocaru, T. W. Hawkins, S. Schneider, J. Paulo Perez, B. W. McMahon, S. L. Anderson, S. F. Son, and R. D. Rogers, "Nanoparticles in Hypergolic and Energetic Ionic Liquids," Presented by P. D. McCrary before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 007.
805. G. W. Drake, P. D. McCrary, P. A. Beasley, and R. D. Rogers, "Evaluating Energetic Ionic Liquids as Hypergolic Fuels," Presented by P. D. McCrary and Preston A. Beasley before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 003.
806. J. R. Canada, O. A. Cojocaru, Gabriela Gurau, Juliusz Pernak, and R. D. Rogers, "Using Herbicidal Ionic Liquids to Reduce the Impact on the Environment," Presented by O. A. Cojocaru before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract I&EC 325.
807. J. R. Canada, R. Rogers, K. E. Peterman, G. P. Foy, "COP 17: Spreading the Word," Presented by K. E. Peterman before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract SOCED 006.
808. G. Gurau, D. T. Daly, and R. D. Rogers, "Ionic liquid (IL) base drugs for the \$1.2B pain management sector: New disruptive directions in pain management," Presented by G. Gurau before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract COMSCI 008.
809. B. W. McMahon, J. L. Perez, S. L. Anderson, S. Schneider, J. Boatz, T. Hawkins, P. D. McCrary, P. A. Beasley, R. D. Rogers, and S. Son, "Dual ligand passivation and homogeneous media ball milling: Novel approaches for both the synthesis and capping of air-stable aluminum nanoparticles," Presented by B. W. McMahon before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract FUEL 367.
810. J. L. Perez, B. W. McMahon, S. L. Anderson, S. Schneider, J. Boatz, T. Hawkins, P. D. McCrary, P. A. Beasley, and R. D. Rogers "Synthesis of air-stable, unoxidized boron nanoparticles using ball milling technique," Presented by J. L. Perez before the 243<sup>rd</sup> ACS National Meeting (March 25-29, 2012), San Diego, CA, Abstract FUEL 369.
811. R. D. Rogers, P. S. Barber, C. S. Griggs, E. L. Stoner, and S. P. Kelley, "Ionic Liquids for Extraction and Functionalization of Uranium Selective Chitin Sorbents," Presented by G. Gurau before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 6.3. (Invited Speaker)
812. H. Wang, A. Kumar, G. Gurau, and R. D. Rogers, "Extraction of Sandalwood Oil from Sandalwood using Ionic Liquids," Presented by H. Wang before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 4.8. (Invited Speaker)
813. G. Gurau and R. D. Rogers, "Nanochitin Materials from Shrimp Shell Waste – Manufacturing Challenges in an Ionic Liquid Process," Presented by G. Gurau before the 2012 Materials Research Society Spring Meeting & Exhibit (April 9-13, 2012), San Francisco, CA, Abstract BBB 3.6. (Invited Speaker)

814. R. D. Rogers, "Do you really understand all there is to know about Ionic Liquids?" Presented by R. D. Rogers before M3 Molecules Materials Medicines: An International Conference on the Role of Materials Science and Engineering in Drug Development (May 19-22, 2012), Banff, Alberta, Canada, Abstract. (Invited Keynote Address)
815. P. D. McCrary, P. A. Beasley, O. A. Cojocar, S. P. Kelley, S. A. Alaniz, T. W. Hawkins, S. Schneider, J. A. Boatz, J. P. L. Perez, B. W. McMahan, S. L. Anderson, M. Pfeil, S. F. Son, and R. D. Rogers. "Controlling the Properties of Energetic Ionic Liquids (EILs) by Stabilizing Reactive Nanomaterials," Presented by P. D. McCrary before the AFOSR Contractors' Meeting (May 22-24, 2012), Arlington, VA, Abstract.
816. P. A. Beasley, P. D. McCrary, O. A. Cojocar, T. W. Hawkins, S. Schneider, and R. D. Rogers, "Energetic Ionic Liquid "Liquid Clathrates"," Presented by P. A. Beasley before the AFOSR Contractors' Meeting (May 22-24, 2012), Arlington, VA, Abstract.
817. G. Gurau, H. Wang, and R. D. Rogers, "Polymorphs, Salts, and Cocrystals of Active Pharmaceutical Ingredients and the FDA Proposed Classifications: What will they think of Ionic Liquid Forms?," Presented by G. Gurau before the Gordon Research Conference on Crystal Engineering (June 10-15, 2012), Waterville Valley Resort, NH, Abstract 34.
818. S. P. Kelley, A. Narita, H. Wang, O. A. Cojocar, G. Gurau, and R. D. Rogers "Ionic Liquids, Ionic Cocrystals, and Salts: Structural Consequences of Proton Sharing via Strong Hydrogen Bonds," Presented by S. P. Kelley before the Gordon Research Conference on Crystal Engineering (June 10-15, 2012), Waterville Valley Resort, NH, Abstract 41.
819. R. D. Rogers, "Science, service, and the ACS: Becoming an ACS Fellow from the I&EC Division," Presented by R. D. Rogers before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 043. (Invited Presentation)
820. C. S. Griggs, P. S. Barber, S. P. Kelley, G. Gurau, and R. D. Rogers, "Electrospun chitin nanofibers for uranyl absorbant materials," Presented by C. S. Griggs before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 058.
821. P. S. Barber, S. P. Kelley, C. S. Griggs, and R. D. Rogers, "Amidoxime functionalized materials for the selective extraction of the uranium," Presented by P. S. Barber before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 054.
822. R. D. Rogers, P. S. Barber, C. S. Griggs, S. P. Kelley, and G. Gurau, "Extraction of uranium with regenerated chitin from the dissolution of shrimp shells in ionic liquid," Presented by R. D. Rogers before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 106.
823. S. P. Kelley and R. D. Rogers, "Application of Unusual Metal Speciation in ILs to f-Element Separations," Presented by S. P. Kelley before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract I&EC 105.
824. R. D. Rogers, "Ionic liquids and strategic metals: Challenges and opportunities," Presented by R. D. Rogers before the 244<sup>th</sup> ACS National Meeting (August 19-23, 2012), Philadelphia, PA, Abstract ANYL 189. (Invited Presentation)
825. J. F. B. Pereira, Teresa Mourão, O. A. Cojocar, G. Gurau, L. P. N. Rebelo, R. D. Rogers, J. A. P. Coutinho, and M. G. Freire, "Biodegradable and biocompatible aqueous biphasic systems composed of polymers and choline-based ionic liquids," Presented by J. F. B. Pereira before the 4<sup>th</sup> International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguacu/PR, Brazil, Abstract Book p 74.
826. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before the 4<sup>th</sup> International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguacu/PR, Brazil, Abstract Book p 11. (Invited Plenary Speaker).
827. R. D. Rogers, "Solvents, Separations, and Renewables," A Short Course presented by R. D. Rogers before the 4<sup>th</sup> International IUPAC Conference on Green Chemistry (August 25-29, 2012), Foz do Iguacu/PR, Brazil, Abstract Book p xi. (Invited Course Instructor).
828. H. Wang, A. Myerson, and R. D. Rogers, "Separations utilizing hydrophobic vs. hydrophilic ionic liquids in support of continuous pharmaceutical manufacturing," Presented by H. Wang before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract E-12, p. 128.
829. G. Gurau, C. S. Griggs, P. S. Barber, and R. D. Rogers, "Shell Fish and Ionic Liquids – Turning Waste into Advance Materials," Presented by G. Gurau before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract G-13, p. 176.
830. P. D. McCrary, P. A. Beasley, and R. D. Rogers, "Ionic Liquids as 'Practical' Energetic Materials," Presented by P. D. McCrary before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract G-03, p. 166.
831. R. D. Rogers and G. Gurau, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before the 3rd Asian-Pacific Conference on Ionic Liquids and Green Processes, APCIL'12 (Sept. 17-19, 2012), Beijing, China, Abstract P-01, p. 1. (Invited Plenary Speaker).
832. R. D. Rogers and G. Gurau, "Extraction and Manufacturing of Nanochitin Materials from Shrimp Shell Waste Using Ionic Liquids," 15<sup>th</sup> International Biotechnology Symposium and Exposition (IBS 2012), "Innovative Biotechnology for a Green World and Beyond" (Sept. 16-21, 2012), Daegu, South Korea, Abstract cd O-S8-0086. (Invited Speaker).
833. S. Mateyawa, P. Halley, R. Truss, F. Xie, T. Nicholson, T. McNally, and R. Rogers, Starch polymer nanocomposite systems: use of ionic liquids and nanofillers," Presented by S. Mateyawa before the 13<sup>th</sup> International Symposium on Biopolymers (ISBP 2012, October 7-10, 2012), Cairns, Australia, Abstract <http://isbp2012.com.au/symposium-abstracts/>.
834. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the Indian Institute of Technology Bombay – American Chemical Society Symposium (Oct. 1-2, 2012), Mumbai, India, Abstract. (Invited Lecture)

835. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the National Chemical Laboratory - American Chemical Society On Campus Symposium (Oct. 10, 2012), Pune, India, Abstract. (Invited Lecture)
836. R. D. Rogers, "What can ionic liquids, the antithesis of solid crystalline materials, teach us about controlling the form of active pharmaceutical ingredients? Crystals, cocrystals, and salts," Presented by R. D. Rogers before the Indian Association for the Cultivation of Science - American Chemical Society On Campus Symposium (Oct. 12, 2012), Calcutta, India, Abstract. (Invited Lecture)
837. R. D. Rogers, "How can the liquid state help us master the solid state? A study of Ionic Liquids in the pharmaceutical sector," Presented by R. D. Rogers before the 6th National Symposium on Structural Chemistry (6th NSSC; Oct. 22-25, 2012), Suzhou, China, Abstract KL-01. (Invited Keynote Lecture)
838. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers before the CSIRO Cutting Edge 2012 Symposium on Biological and Chemical Conversion of Renewables to Fuels and Chemicals (Nov. 13-15, 2012), Parkville, Australia, Abstract D2. (Invited Lecture).
839. R. D. Rogers, "Developing Ionic Liquid Know-How for the Design of Modular Functionality, Versatile Platforms, and New Synthetic Methodologies for Energetic Materials," Presented by R. D. Rogers before the Air Force Office of Scientific Research Molecular Dynamics Contractors Meeting (December 3-4, 2012), Pasadena, CA, Abstract .
840. R. D. Rogers and P. D. McCrary, "The Development of Advanced Liquid Composite Materials by Controlling Stabilization of Nanoparticles in Ionic Liquids," Presented by R. D. Rogers before the 2013 Materials Research Society Spring Meeting & Exhibit (April 1-5, 2013), San Francisco, CA, Abstract VV2.07.
841. P. D. McCrary, G. P. Foy, K. E. Peterman, and R. D. Rogers, "Youth Involvement at the 18th Conference of Parties and the Need for Climate Science Literacy," Presented by P. D. McCrary before the 245<sup>th</sup> ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract CHED 506.
842. P. D. McCrary, S. A. Alaniz, and R. D. Rogers. "Controlling the Properties of Energetic Ionic Liquids through the Incorporation of Reactive Nanomaterials," Presented by P. D. McCrary before the 245<sup>th</sup> ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract I&E 116.
843. S. K. McNeil, S. P. Kelley, C. Beg, H. W. Cook, R. D. Rogers, and D. E. Nikles. "Co-crystals of 1,3-dinitrobenzene and 10-methylphosphorothiazine: Implications for detecting explosives," Presented by S. K. McNeil before the 245<sup>th</sup> ACS National Meeting (April 7-11, 2013), New Orleans, LA, Abstract I&E 133.
844. R. D. Rogers, "What happens when co-crystals don't crystallize?" Presented by R. D. Rogers before the CPI Conference CRYSTALLIZATION (April 16-17, 2013), Mumbai, India. (Invited Lecture)
845. O. A. Cojocar, J. Shamshina, K. Bica, G. Gurau, A. Narita, P. D. McCrary, P. S. Barber, and R. D. Rogers, "Prodrug ionic liquids: functionalizing neutral active pharmaceutical ingredients to take advantage of the ionic liquid form," Presented by J. Shamshina before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P342. Poster
846. K. R. Di Bona, D. Yancey, S. Rizvi, M. Gray, G. Gurau, J. L. Shamshina, J. F. Rasco, and R. D. Rogers, "Transdermal Pharmacokinetic Studies of Ionic Liquids Composed Entirely of Active Pharmaceutical Ingredients," Presented by K. R. Di Bona before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P339.
847. G. Gurau, L. E. Block, J. Shamshina, and R. D. Rogers, "Wound dressings through an ionic liquid process – filling a gap in the wound care sector" Presented by G. Gurau before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract OP3.
848. P. D. McCrary, P. A. Beasley, G. Gurau, P. S. Barber, and R. D. Rogers, "Drug specific, tuning of an ionic liquid's hydrophilic-lipophilic balance to improve water solubility of poorly soluble pharmaceutical ingredients," Presented by P. D. McCrary before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P104.
849. P. D. McCrary, G. P. Foy, K. E. Peterman, and R. D. Rogers, "Youth Involvement at the 18<sup>th</sup> Conference of Parties and the Need for Climate Science Literacy," Presented by P. D. McCrary before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P105.
850. P. D. McCrary, S. A. Alaniz, and R. D. Rogers, "Controlling the Properties of Energetic Ionic Liquids through the Incorporation of Reactive Nanomaterials," Presented by P. D. McCrary before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract F36/P291.
851. P. S. Barber, C. S. Griggs, S. P. Kelley, S. Wallace, R. D. Rogers, "Using an Ionic Liquid Platform for the Development of Materials for the Extraction of Uranium from Seawater," Presented by P. S. Barber before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract F43/P81.
852. J. F. B. Pereira, L. P. N. Rebelo, R. D. Rogers, J. A. P. Coutinho, and M. G. Freire, "Combining ionic liquids and polyethylene glycols to boost the hydrophobic-hydrophilic range of aqueous biphasic systems," Presented by J. F. B. Pereira before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P65
853. J. Shamshina, P. D. McCrary, O. A. Cojocar, G. Gurau, and R. D. Rogers, "Formation of pure liquid salt forms from active pharmaceutical ingredients to establish new drug delivery systems with superior properties," Presented by J. Shamshina before the 5<sup>th</sup> Congress on Ionic Liquids, COIL-5 (April 21-25, 2013), Algarve, Portugal, Abstract P85.
854. R. D. Rogers and S. P. Kelley, Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Abstract Only no Presentation to Past, Present, and Future of Crystallography@Politecnico di

- Milano, from Small Molecules to Macromolecules and Supramolecular Structures (June 6-7, 2013), Milan, Italy, Abstract Book p 11. (Invited)
855. R. D. Rogers, "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin," Presented by R. D. Rogers before INORG2013 Conference (June 30 – July 4, 2013), Durban, South Africa, Abstract GS3, <http://www.ic2013.ukzn.ac.za/>. (Invited Plenary Speaker).
856. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers before the University of KwaZulu-Natal - American Chemical Society On Campus Symposium (July 5, 2013), Durban, South Africa. (Invited).
857. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers before the Wits University - American Chemical Society On Campus Symposium (July 8, 2013), Johannesburg, South Africa. (Invited).
858. R. D. Rogers, "Past, Present, and Future Ghosts in Submission, Review, and Archiving of Crystallographic Data in the American Chemical Society Journal *Crystal Growth & Design*," Presented by R. D. Rogers before the American Crystallographic Annual Meeting (July 20-24, 2013), Honolulu, HI, Abstract 13.10.04. (Invited)
859. O. A. Cojocaru and R. D. Rogers, "Ionic liquid forms of active pharmaceutical ingredients in drug delivery," Presented by O. A. Cojocaru before the 246<sup>th</sup> ACS National Meeting (September 8-12, 2013), Indianapolis, IN, Abstract AEI 066.
860. R. D. Rogers and G. Gurau, "Novel chitin fibers for wound care," Presented by D. T. Daly before the 246<sup>th</sup> ACS National Meeting (September 8-12, 2013), Indianapolis, IN, Abstract SCHB 019.
861. Z. Tywabi, B. Sithole, N. Deenadayalu, and R. D. Rogers, Structural changes in South African eucalyptus bleached dissolving pulp after dissolution in ionic liquid and co-solvent mixtures evidenced by FTIR and P<sup>2</sup>XRD, presented by Z. Tywabi before the Technical Association of the Pulp and Paper Industry of South Africa (TAPPSA) National Conference & Exhibition (October 22-23, 2013), Durban, South Africa.
862. M. Shadid, G. Gurau, B.-C. Chuang, M. Liao, S. Chowdhury, J.-T. Wu, S. A. A. Rizvi, R. D. Rogers, and R. J. Griffin, "Investigating the ADME properties of an ionic liquid salt form of sulfasalazine, a novel approach to improve drug exposure," Presented by M. Shadid before the 10th International Meeting of the International Society for the Study of Xenobiotics (September 30 – October 3, 2013), Toronto, Ontario, Canada, Abstract P127.
863. R. D. Rogers, "Advanced Materials from Renewable Polymers: Why Are We Still Using Synthetics?" Presented by R. D. Rogers before the 2013 CAS – TWAS Symposium on Green Technology (SGT2013; October 20–23, 2013; <http://www.sgt2013.com/dct/page/1>), Beijing, China, P-01, no abstract. (Plenary Speaker)
864. R. D. Rogers, (Walden Award Lecture) "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to COST Meeting, EXIL – Exchange on Ionic Liquids (November 24-26, 2013), Dresden, Germany, Abstract. (Invited Award Lecture)
865. R. D. Rogers, "Advanced Materials from Renewable Polymers: Why Are We Still Using Synthetics?" Presented by R. D. Rogers to the 65<sup>th</sup> Detmold Starch Convention, Detmold, Germany, Abstract 4.11. (Invited)
866. J. P. L. Perez, B. W. McMahon, J. Yu, S. Schneider, J. A. Boatz, T. W. Hawkins, P. D. McCrary, L. A. Flores, R. D. Rogers, and S. L. Anderson, "Synthesis and characterization of surface-functionalized aluminum and boron nanoparticles in hypergolic ionic liquid propellants," presented by S. L. Anderson before the Air Force Molecular Dynamics meeting (May 19-21, 2014), Arlington, VA.
867. R. D. Rogers, "Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers," Presented by R. D. Rogers before the 2014 CAS - TWAS Symposium on Advanced Engineering Science for Sustainable Development (AES 2014; May 28-30, 2014), Beijing, China, Abstract P-01. (Plenary Speaker)
868. R. D. Rogers, "Crystal Engineering to Liquid Engineering: Salts, cocrystals, deep eutectics, crystals, liquids...It's about the interactions and effects!" Presented by R. D. Rogers before the International Union of Pure and Applied Chemistry/International Council for Science Workshop on Crystal Engineering at the 1<sup>st</sup> International Symposium on Halogen Bonding (ISXB-1; June 18-22, 2014), Porto Cesareo, Italy, Abstract CE2. (Plenary Speaker)
869. H. Wang and R. D. Rogers, "Double salt ionic liquids: Expanding the range and tuneability of separations media," Presented by R. D. Rogers before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract PL2 (Plenary Presentation).
870. C. C. Weber, A. J. Kunov-Kruse1, R. D. Rogers, and A. S. Myerson, "Manipulating hydrogen bond complexes in ionic liquids to facilitate the purification of pharmaceuticals," Presented by C. C. Weber before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O02.4.
871. M. G. Freire, A. M. Ferreira, A. M. Fernandes, R. D. Rogers, and J. A. P. Coutinho, "pH-triggered reversible aqueous biphasic systems composed of ionic liquids," Presented by M. G. Freire before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O13.1.
872. J. F. B. Pereira, K. A. Kurnia, O. A. Cojocaru, G. Gurau, L. P. N. Rebelo, M. G. Freire, J. A. P. Coutinho, and R. D. Rogers, "Are crystalline cholinium salts really different from liquid cholinium salts in the formation of aqueous biphasic systems with polyethylene glycol?" Presented by J. F. B. Pereira before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O15.1.
873. S. Nemser, P. R. Campos, D. Campos, S. Majumdar, R. D. Rogers, G. Gurau, B. A. Simmons, S. Singh, and J. Sun, "Dehydration of ionic liquids by pervaporation with perfluorinated membranes," Presented by S. Nemser before the 2<sup>nd</sup>

- International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract O17.1.
874. J. A. P. Coutinho, L. I. N. Tomé, M. G. Freire, J. R. Gomes, J. F. B. Pereira, and R. D. Rogers, “‘Washing-out’ polyethylene glycol-ionic liquid mixtures to form aqueous biphasic systems,” Presented by J. A. P. Coutinho before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract P010.
875. F. A. e Silva, J. F. B. Pereira, R. D. Rogers, A. M. S. Silva, J. A. P. Coutinho, and M. G. Freire, “When do quaternary ammonium halides behave as ionic liquids in the formation of aqueous biphasic systems?” Presented by J. F. B. Pereira before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract PO44.
876. J. F. B. Pereira, L. A. Flores, H. Wang, and R. D. Rogers, “Ionic liquid-benzene mixtures: The key to understanding liquid clathrate formation,” Presented by J. F. B. Pereira before the 2<sup>nd</sup> International Conference on Ionic Liquids in Separation and Purification Technology (ILSEPT; June 29 – July 2, 2014), Toronto, Canada, Abstract P074.
877. R. D. Rogers, “Processing of Lignocellulosic Biomass Using Ionic Liquids,” Presented by R. D. Rogers before the Hybrid Processing for Biorenewable Fuels & Chemicals Production Symposium (July 10-11, 2014), Denver, CO, No Abstract (Invited Speaker).
878. R. D. Rogers, “Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions,” Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 14 Working Group Meeting (July 28-29, 2014), Sequim, WA (No Abstract).
879. G. Gurau, J. L. Shamshina, and R. D. Rogers, “High Throughput Electrospinning of Uranium Selective Chitin Adsorbents – A Sustainable Ionic Liquid Technology,” Presented by G. Gurau before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 23.
880. J. L. Shamshina, G. Gurau, L. E. Block, L. K. Hansen, C. Dingee, A. Walters, and R. D. Rogers, “Chitin-Calcium Alginate Composite Fibers for Wound Care Dressings Spun from an Ionic Liquid,” presented by J. L. Shamshina before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 48.
881. S. Yerkimbekova, J. L. Shamshina, G. Gurau, A. Zazybin, V. Yu1, and R. D. Rogers, “Ionic Liquids as Electrolytes,” Presented by S. Yerkimbekova before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 64.
882. F. Cheng, H. Wang, and R. D. Rogers, "Enhancement of Dissolution and Delignification of Woody Biomass in Ionic Liquids in the Presence of Polyoxometalate and Oxygen," Presented by F. Cheng before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 10.
883. O. A. Cojocar, J. Shamshina, J. Pernak, and R. D. Rogers, "Herbicide Ionic Liquids with Reduced Volatility and Increased Efficacy," Presented by J. Shamshina before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 70.
884. H. Wang, A. S. Myerson, and R. D. Rogers, "Finely Tunable Solvent Properties of Ionic Liquids Containing More Than Two Ions," Presented by H. Wang before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 60.
885. S. P. Kelley, J. S. Nuss, and R. D. Rogers, "Forcing unusual Coordination with ionic Liquids designed for f-Element Coordination Chemistry," Presented by S. P. Kelley before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines?, (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 28.
886. L. Flores, J. Pereira, H. Wang, P. McCrary, and R. D. Rogers, "Ionic Liquid Mixtures with benzene: A Greater Understanding of Liquid Clathrates," Presented by L. Flores before Gordon Research Conference on Ionic Liquids: Solvents, Materials, or Medicines? (August 17-22, 2014), Sunday River Resort, Newry, ME, Abstract 15.
887. H. Wang, J. Pereira, A. Myerson, and R. D. Rogers, “Double Salt Ionic Liquids Prepared by Mixing Partially Miscible Ionic Liquids: Tuning the Solubility of Lipophilic Molecules,” Presented by R. D. Rogers before the 19<sup>th</sup> International Symposium on Molten Salts part of the 2014 ECS and SMEQ Joint International Meeting of the 226<sup>th</sup> Meeting of the Electrochemical Society Meeting and the XXIX Congreso de la Sociedad Mexicana de Electroquímica (October 5-9, 2014), Cancun, Mexico, Abstract H6.1419. (Invited Keynote Presentation)
888. R. D. Rogers and K. Boykin, “Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists,” Presented by R. D. Rogers before the Joint 31<sup>st</sup> Latin American Chemistry Congress (Congreso Latinoamericano de Química; CLAQ-2014) and XXVII Peruvian Chemistry Congress (October 14-17, 2014), Lima, Peru, Abstract. (Invited Plenary Presentation)
889. S. Nemser, D. Campos, P. R. Campos, J. Bowser, S. Majumdar, B. A. Simmons, S. Singh, J. Sun, J. Shi, R. D. Rogers, G. Gurau, and F. Cheng, “Perfluorinated Membranes for the Dehydration of Ionic Liquids for Processing Biomass,” Presented by S. Nemser before the 2014 AIChE Annual Meeting (November 16-21, 2014), Atlanta, GA, Abstract 637b.
890. R. D. Rogers, “Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers,” Presented by R. D. Rogers before the Semi-Annual Meeting of the Innovative Green Wood Fibre Products Network (Nov. 18-20, 2014), Esterel, QC, Canada, Abstract book. (Keynote Speaker)

891. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources FY 15 Working Group Meeting (January 12-13, 2015), Oak Ridge, TN (No Abstract).
892. R. D. Rogers, H. Wang, and S. P. Kelley, "Double salt ionic liquids with unique chemical environments for separations." Presented by R. D. Rogers before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 1.
893. J. L. Shamshina, G. Gurau, S. P. Kelley, and R. D. Rogers, "Uranium-from-seawater sorbents from fishing industry waste – cost reduction through solvent recycle." Presented by J. L. Shamshina before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 50.
894. G. Gurau, J. L. Shamshina, S. P. Kelley, and R. D. Rogers, "Uranium-from-seawater sorbents from industry waste – from batch to continuous production." Presented by G. Gurau before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 30.
895. S. P. Kelley, J. L. Shamshina, G. Gurau, and R. D. Rogers, "Dual functional sorbents for coextraction of aqueous copper and uranium." Presented by S. P. Kelley before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 48.
896. R. D. Rogers, S. P. Kelley, G. Gurau, G., and J. L. Shamshina, "Nanofiber chitin mats for coextraction of value added metals from seawater: Improving the economics of uranium recovery." Presented by R. D. Rogers before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 15.
897. J. Bandomir, S. P. Kelley, J. L. Shamshina, G. Gurau, and R. D. Rogers, "Homogeneous blending of chitin with biopolymers for advanced biodegradable sorbents for uranium extraction from seawater." Presented by J. Bandomir before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract I&EC 47.
898. R. D. Rogers and S. P. Kelley, "A practical overview of organic synthesis in ionic liquids." Presented by R. D. Rogers before the 249<sup>th</sup> National Meeting of the American Chemical Society (March 22-26, 2015), Denver, CO, Abstract ORGN 307.
899. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers before the 5<sup>th</sup> Annual Meeting of the Canada Excellence Research Chairs (April 13-14, 2015), Waterloo, ON, Canada.
900. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers before the L'Oréal Satellite Symposium at the 3<sup>rd</sup> International Symposium on Green Chemistry (ISGC 2015), May 3-7, 2015, La Rochelle France (Invited).
901. R. D. Rogers, "Are Alternative Solvent Systems such as Ionic Liquids Green or not Based on Toxicity, Chemical or Energy Use, or Utilization? (Hint: It Depends)," Presented by R. D. Rogers before the 3<sup>rd</sup> International Symposium on Green Chemistry (ISGC 2015), May 3-7, 2015, La Rochelle, France, Abstract PL9. (Invited Plenary Presentation)
902. R. D. Rogers, and H. Wang, "Ionic Fluids Containing Both Strongly and Weakly Interacting Ions of the Same Charge Have Unique Ionic and Thus Chemical Environments As a Function of Ion Concentration," Presented by R. D. Rogers before the 227<sup>th</sup> ECS Meeting (May 24-28, 2015), Chicago, IL, Abstract M04-2158. (Invited Keynote presentation)
903. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: education, research, and entrepreneurship to motivate the next generation of scientists," Presented by R. D. Rogers before the 98<sup>th</sup> Canadian Chemistry Conference and Exhibition (June 13-17, 2015), Ottawa, ON, Abstract 1177 PL2. (Invited Plenary Presentation).
904. R. D. Rogers, "Is 'Sustainability' a new paradigm for the future chemical industry? Cross border perspectives and what we need to train the next generation to face," Presented by R. D. Rogers before the 98<sup>th</sup> Canadian Chemistry Conference and Exhibition (June 13-17, 2015) CIC Chair's Event: CIC/CGCEN Business Innovation Session, Ottawa, ON, Abstract. (Invited Presentation).
905. H. Passos, T. B. V. Dinis, A. M. Fernandes, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "Ionic liquids as phase-forming components of aqueous multiphase systems," Presented by H. Passos before the 6<sup>th</sup> International Congress on Ionic Liquids (COIL-6; Jun. 16-20, 2015), Jeju City, South Korea, Abstract S28.
906. M. Ferreira, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "pH reversible aqueous biphasic systems," presented by A. M. Ferreira before the 6<sup>th</sup> International Congress on Ionic Liquids (COIL-6; Jun. 16-20, 2015), Jeju City, South Korea, Abstract S42.
907. M. Ferreira, R. D. Rogers, M. G. Freire, and J. A. P. Coutinho, "pH-Driven Reversible Aqueous Biphasic Systems Composed of Ionic Liquids," Presented by J. A. P. Coutinho before the Nineteenth Symposium on Thermophysical Properties (June 21-26, 2015), Boulder, CO, Abstract 2385.
908. F. B. Pereira, V. C. Santos-Ebinuma, A. Pessoa, R. D. Rogers, S. P. M. Ventura, M. G. Freire, and J. A. P. Coutinho, "Facing the Complexity of Bioproducts' Purification using PEG-IL-based Aqueous Biphasic Systems: From Antibiotics to L-Asparaginase," Presented by J. F. B. Pereira before the Iberoamerican Meeting on Ionic Liquids - IMIL 2015 (July 2-3 July, 2015), Madrid, Spain, Abstract P13.
909. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources Summer 2015 Working Group Meeting (August 6-7, 2015), College Park, MD (No Abstract).
910. R. M. Hanes, J. L. Shamshina, G. Gurau, T. Di Nardo, P. Berton, S. P. Kelley, and R. D. Rogers, "Uranium-from-Seawater Sorbents from Fishing Industry Waste – Pilot Testing and Financial Analysis," Presented by R. M. Hanes before the DOE-NE Fuel Resources Summer 2015 Working Group Meeting (August 6-7, 2015), College Park, MD (No Abstract).



911. R. D. Rogers and S. P. Kelley, "Covalent, Supramolecular... Ionic? Using Ionic Liquids to Demonstrate Manipulation of the Ionic Bond; an Underutilized Tool in Crystal Engineering," Presented by R. D. Rogers before the 2<sup>nd</sup> International Council for Science/International Union of Pure and Applied Chemistry Workshop on Crystal Engineering, (August 30-September 1, 2015), Como, Italy, Abstract Book p. 43. (Invited Expert)
912. R. D. Rogers, "Does the Nature of the Bonding in Double Salt Ionic Liquids "Prove" A Difference Between Ionic Liquids and Molecular Liquids?" Presented by R. D. Rogers before the Joint European Molecular Liquids Group/Japanese Molecular Liquids Group Annual Meeting "Molecular Liquids Meet Ionic Liquids, From Fundamentals to Applications," (Sept. 6-10, 2015), Rostock, Germany, Abstract Book OL p. 16. (Invited Opening Lecture)
913. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers to the American Chemical Society On Campus Symposium at the University of Toronto (September 24, 2015), Toronto, ON, Canada, No Abstract (Invited).
914. R. D. Rogers, "Basics of Scholarly Publishing: Peer Review - What It Is, How It Works, and Why It Matters!" Presented by R. D. Rogers to the American Chemical Society On Campus Symposium at York University (September 25, 2015), Toronto, ON, Canada, No Abstract (Invited).
915. R. D. Rogers, "Green Chemistry and Sustainable Technology through Innovation," Presented by R. D. Rogers before the Seminar on Exploitation of Residue Generated by Agribusiness Activity Organized by The Centre of Piscicultural Technological Development at Surcolombiano-Acuapez and Corporación Universitaria del Huila-CORHUILA (November 30, 2015), Neiva, Colombia, No Abstract (Invited Opening Lecture – presented via Skype).
916. R. D. Rogers, "ACS *Crystal Growth & Design*: Founding a journal in the cusp of electronic publishing and open access," Presented by R. D. Rogers before the 2015 International Chemical Congress of Pacific Basin Societies, Pacificchem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 063. (Invited Presentation)
917. G. Gurau, J. L. Shamshina, N. Abdul Faruk Khan, S. P. Kelley, P. Berton, and R. D. Rogers, "Sustainable materials for energy harvesting – how shrimp shell waste and ionic liquids can make an impact on today's society," Presented by G. Gurau before the 2015 International Chemical Congress of Pacific Basin Societies, Pacificchem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 335.
918. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: Education, research, and entrepreneurship to motivate the next generation of scientists," Presented by R. D. Rogers before the 2015 International Chemical Congress of Pacific Basin Societies, Pacificchem 2015 (Dec. 15-20, 2015), Honolulu, HI, Abstract SCTY 385. (Invited Presentation)
919. R. D. Rogers, "Using Ionic Liquids for the Development of Renewable Biopolymer-Based Adsorbents for the Extraction of Uranium from Seawater and Testing Under Marine Conditions," Presented by R. D. Rogers before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
920. R. D. Rogers, "Understanding the Interactions of Seawater Ions with Amidoxime through X-Ray Crystallography," Presented by R. D. Rogers before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
921. R. M. Hanes, J. L. Shamshina, Ezinne Achinivu, and R. D. Rogers, "Uranium-from-Seawater Sorbents from Fishing Industry Waste – Pilot Testing and Financial Analysis," Presented by R. M. Hanes before the DOE-NE Fuel Resources Winter 2016 Working Group Meeting (January 14-15, 2016), Oak Ridge National Lab, TN (No Abstract).
922. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Ionic Liquids-Based Technologies?" Presented by R. D. Rogers before the International Symposium on Ionic Liquids (ISOIL\_2016; Jan. 21-22, 2016), Mumbai, India, Abstract. (Invited Keynote Presentation)
923. R. D. Rogers, "Why is the Sugar Industry letting 'Big Corn' Drive the Biorefinery? Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers Before the Sugar Processing Research Institute 2016 Conference on The Science and Technology of a Sustainable Sugar Industry (Feb. 21-25, 2016), Walnut Creek, CA, Abstract Book. (Invited Plenary Presentation).
924. S. P. Kelley, G. P. Rachiero, J. Wang, and R. D. Rogers, "Imidazole-2-thiones as liquid sorbents of Hg(0): Thermal behavior, redox chemistry, and loading on solid supports," Presented by R. D. Rogers before the 251<sup>st</sup> National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract ENVR 093.
925. J. L. Shamshina, G. Gurau, and R. D. Rogers, "Translational research: From academia to industry. Following the pathway of George Washington Carver," Presented by R. D. Rogers before the 251<sup>st</sup> National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract I&EC 054.
926. P. Berton, G. Gurau, J. L. Shamshina, and R. D. Rogers, "In search of green chemistry and sustainability: Polymeric materials based on renewable polymers," Presented by R. D. Rogers before the 251<sup>st</sup> National Meeting of the American Chemical Society (March 13-17, 2016), San Diego, CA, Abstract I&EC 109.
927. T. Di Nardo, and R. D. Rogers, "Unlocking the true power of ionic liquids: highly functional, environmentally compatible biopolymer platform," Presented by R. D. Rogers before the 1<sup>st</sup> Middle-Eastern Materials Science Conference (March 22-23, 2016), Abu Dhabi, United Arab Emirates, Abstract. (Invited)
928. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before the CIC/SCI Canada Green, Clean and Sustainable Chemistry Seminar: Innovation Through Collaboration (April 7, 2016), Toronto, ON, Canada. (Invited)
929. R. D. Rogers, "Green Quest: Resourceful Approaches to Resources," Presented by R. D. Rogers before the 6<sup>th</sup> Annual Meeting of the Canada Excellence Research Chairs (April 11-12, 2016), Ottawa, ON, Canada.

930. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before GreenWin's International Conference on Green Chemistry and White Biotechnology (May 12-13, 2016), Gembloux, Belgium, Abstract. (Invited Plenary)
931. R. D. Rogers, "Green chemistry and advanced materials from renewable polymers: Education, research, and entrepreneurship to motivate the next generation of scientists," Presented by video by R. D. Rogers before the (May 18-20, 2016), Buenos Aires, Argentina, Abstract. (Invited Plenary Presentation)
932. P. Berton and R. D. Rogers, "Millions of new ionic liquids are hiding in plain sight: Understanding the nature of the bonding in double salt ionic liquids (aka ionic liquid mixtures)," Presented by R. D. Rogers before the Pacific Rim Meeting on Electrochemical and Solid-State Science (October 2-7, 2016), Honolulu, HI, Abstract. (Invited)
933. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers before the Workshop on Insights and Strategies Towards a Bio-Based Economy (November 22-25, 2016), Montevideo, Uruguay.

#### D. Presentations before Regional Meetings:

1. R. D. Rogers and J. L. Atwood, "The Crystal Structure of  $\text{Cu}[\text{P}(\text{C}_6\text{H}_5)_2\text{CH}_3]_3\text{BH}_4$ ," Presented by R. D. Rogers before the Southeast Regional American Chemical Society Student Affiliate Meeting (1977), University, AL, Abstract 20.
2. R. D. Rogers, W. E. Hunter, and J. L. Atwood, "The Crystal and Molecular Structure of  $\text{Mo}[\text{CH}_2\text{Si}(\text{CH}_3)_3]_3[\text{P}(\text{CH}_3)_3]\text{Cl}$ ," Presented by R. D. Rogers before the 29th Southeast Regional ACS Meeting (1977), Tampa, FL, Abstract 348.
3. W. E. Hunter, R. D. Rogers, and J. L. Atwood, "The Lanthanide-Carbon Sigma Bond in  $\text{Li}[\text{Yb}\{\text{CH}(\text{SiMe}_3)_3\}_3\text{Cl}]$ ," Presented by W. E. Hunter before the 29th Southeast Regional ACS Meeting (1977), Tampa, FL, Abstract 350.
4. R. D. Rogers, J. L. Atwood, and R. Gruning, "Synthesis and X-ray Structure Determination of N-Lithiohexamethyldisilazane - Bulky Ligand Effects," Presented by R. D. Rogers before the Annual Meeting of the Alabama Academy of Science (1978), Montgomery, AL, Abstract.
5. P. A. Grutsch, C. Kotal, J. L. Atwood, and R. D. Rogers, "Structure of a Copper(I) Compound Containing the Tetrahydroborate Group," Presented by P. A. Grutsch before the 30th Southeast Regional ACS Meeting (1978), Savannah, GA, Abstract 139.
6. R. D. Rogers, W. J. Cook, and J. L. Atwood, "The Synthesis and Crystal Structure of  $(\eta^5\text{-C}_5\text{H}_5)\text{Fe}[\eta^5\text{-C}_5\text{H}_4\text{Al}_2(\text{CH}_3)_4\text{Cl}]$ ," Presented by R. D. Rogers before the 30th Southeast Regional ACS Meeting (1978), Savannah, GA, Abstract 171.
7. R. D. Rogers, W. E. Hunter, and J. L. Atwood, "Crystallographic Examination of the Zirconium-Carbonyl Bond in  $(\eta^5\text{-C}_5\text{H}_5)_2\text{Zr}(\text{CO})_2$ ," Presented by R. D. Rogers before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 185.
8. M. S. Dalton, R. D. Rogers, and J. L. Atwood, "X-ray Crystal Structure of  $\text{ReBr}(\text{CO})_3(\text{Me}_2\text{NH})_2$ ," Presented by M. S. Dalton before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 188.
9. E. A. Lewis, R. Rogers, and J. L. Atwood, "Thermodynamic Studies of Liquid Clathrate Formation and Coal Liquefaction with Liquid Clathrates," Presented by E. A. Lewis before the 31st Southeast Regional ACS Meeting (1979), Roanoke, VA, Abstract 331.
10. M. S. Dalton, R. D. Rogers, L. D. Kispert, and J. L. Atwood, "The Crystal and Molecular Structure of Bromofluoroacetic Acid, A Chiral Hydrogen Bonded Dimer," Presented by M. S. Dalton before the Annual Meeting of the Alabama Academy of Science (1980), Birmingham, AL, Abstract *Journal of the Alabama Academy of Science*, 51(3), 199 (1980).
11. L. G. Canada, R. D. Rogers, and J. L. Atwood, "The Application of X-ray Crystallography to the Pesticide Aldrin and Related Compounds," Presented by L. G. Canada before the Annual Meeting of the Alabama Academy of Science (1980), Birmingham, AL, Abstract *Journal of the Alabama Academy of Science*, 51(3), 196 (1980).
12. R. D. Rogers and J. L. Atwood, "A Comparison of Mo-Ligand ( $\eta^2$ -) Bonding in  $\text{MoCl}(\eta^2\text{-COCH}_2\text{SiMe}_3)(\text{CO})(\text{PMe}_3)_3$  and  $\text{Mo}(\eta^2\text{-C}_2\text{H}_4)_2(\text{PMe}_3)_4$ ," Presented by R. D. Rogers before the 28th Southeast/32nd Southwest Regional ACS Meeting (1980), New Orleans, LA, Abstract 232.
13. F. R. Anderson, R. D. Rogers, and J. L. Atwood, "Crystal and Molecular Structure of 7-Aminothiazolo[5,4-d]pyrimidine-6-oxide," Presented by F. R. Anderson before the 32nd Southeast/28th Southwest Regional ACS Meeting (1980), New Orleans, LA, Abstract 303.
14. L. G. Canada, R. D. Rogers, and J. L. Atwood, "Crystal and Molecular Structure of  $\text{Mn}_2(\text{CO})_6\text{Br}_2\text{Te}_2\text{Ph}_2$ ," Presented by L. G. Canada before the Annual Meeting of the Alabama Academy of Science (1981), Auburn, AL, Abstract.
15. R. D. Rogers, C. R. Kerr, M. J. Zaworotko, and J. L. Atwood, "Decomposition of High-Oxygen Content Organoaluminum Compounds: Identification and Characterization of Products," Presented by R. D. Rogers before the 37th Southwest Regional ACS Meeting (1981), San Antonio, TX, Abstract 96.
16. L. G. Canada, R. Priester, R. D. Rogers, and J. L. Atwood, "Complexes of Crown Ethers with Aluminum Alkyls," Presented by L. G. Canada before the 34th Southeast Regional ACS Meeting (1982), Birmingham, AL, Abstract 280.
17. R. D. Rogers, "Crystal and Molecular Structures of Formyl-, Cyano-, and Amino-Cyclopentadienyldicarbonylnitrosylchromium," Presented by R. D. Rogers before the 3rd Joint Great Lakes and Central Regional ACS Meeting (1984), Kalamazoo, MI, Abstract 208.
18. L. K. Kurihara and R. D. Rogers, "Crown Ether Complexation of f-Elements," Presented by L. K. Kurihara before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 191.
19. M. M. Benning and R. D. Rogers, "Crystal and Molecular Structures of  $(\eta^5\text{-Pentamethylcyclopentadienyl})(\eta^5\text{-cyclopentadienyl})\text{dichlorotitanium}$ , -zirconium and -hafnium," Presented by M. M. Benning before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 193.
20. R. D. Rogers, "Structural Chemistry of Mixed Sandwich Compounds:  $(\eta^5\text{-C}_5\text{Me}_5)(\eta^8\text{-C}_8\text{H}_8)\text{Ti}$  and  $(\eta^5\text{-C}_5\text{Me}_5)(\eta^7\text{-C}_7\text{H}_7)\text{Ti}$ ," Presented by R. D. Rogers before the 19th Great Lakes Regional ACS Meeting (1985), Lafayette, IN, Abstract 192.
21. E. J. Voss and R. D. Rogers, "X-ray Structure of  $(\eta^5, \eta^5\text{-C}_{10}\text{H}_8)[\text{Rh}(\text{CO})_2]_2$ ," Presented by E. J. Voss before the Thirty-Seventh Annual Undergraduate Research Symposium (1986), Abbott Park, IL, Abstract.
22. R. D. Rogers and L. K. Kurihara, "f-Element/Crown Ether Complexation-Structural Effects of Hydrogen Bonding," Presented by R. D. Rogers before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 201.
23. L. K. Kurihara and R. D. Rogers, "f-Element/Crown Ether Complexation- Synthesis and Structures," Presented by L. K. Kurihara before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 200.
24. M. M. Benning and R. D. Rogers, "Crystal Structures of  $(\eta^5\text{-C}_5\text{Me}_5)\text{M}(\eta^7\text{-C}_7\text{H}_7)$  (M=Zr, Hf) and  $(\eta^5\text{-C}_5\text{Me}_5)\text{Zr}(\eta^8\text{-C}_8\text{H}_8)$ ," Presented by M. M. Benning before the 20th Great Lakes Regional ACS Meeting (1986), Milwaukee, WI, Abstract 199.

25. E. J. Voss and R. D. Rogers, "f-Element/Crown Ether Complexes. The Exclusion of H<sub>2</sub>O from the Metal Ion's Coordination Sphere," Presented by E. J. Voss before the 21st Great Lakes Regional ACS Meeting; Thirty-Eighth Annual Undergraduate Research Symposium (1987), Chicago, IL, Abstract.
26. M. M. Benning and R. D. Rogers, "f-Element/Crown Ether Complexes. Synthetic and Structural Survey of UCl<sub>4</sub> Complexes of Common Crown Ethers," Presented by M. M. Benning before the 21st Great Lakes Regional ACS Meeting (1987), Chicago, IL, Abstract 215.
27. R. D. Rogers, "f-Element/Crown Ether Complexes. Structural Effects of Anion Concentration," Presented by R. D. Rogers before the 21st Great Lakes Regional ACS Meeting (1987), Chicago, IL, Abstract 216.
28. A. H. Bond and R. D. Rogers, "Macrocyclic Complexation Chemistry. Complexation and Structural Characterization of Biochemically Toxic Metals," Presented by A. H. Bond before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 031.
29. L. Nunez and R. D. Rogers, "Macrocyclic Complexation Chemistry. The Crystal Structure of A Cu(I) Thiocrown Polymer, [CuCl(18-thiocrown-6)]<sub>n</sub>," Presented by L. Nunez before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 054.
30. R. F. Henry and R. D. Rogers, "Acyclic Mixed Donor Crown Ether Analogs. Synthesis and Characterization of Lanthanide Complexes of Polyethylene Glycols Containing Sulfur," Presented by R. F. Henry before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 053.
31. R. D. Rogers, "The Effects of Anion Concentration on Crystallization of Lanthanide Chloride Polyethylene Glycol Complexes," Presented by R. D. Rogers before the 22nd Great Lakes Regional ACS Meeting (1989), Duluth, MN, Abstract 052.
32. A. H. Bond and R. D. Rogers, "Macrocyclic Complexation Chemistry. 12-crown-4, 15-crown-5, and 18-crown-6 Complexes of Biochemically Toxic Metals," Presented by A. H. Bond before the 40th Annual Undergraduate Symposium (1989, Chicago Section ACS), Libertyville, IL, Abstract.
33. M. M. Witt and R. D. Rogers, "Macrocyclic Complexation Chemistry. Six Donor (Pentaethylene Glycol) and Seven Donor (Hexaethylene Glycol) Acyclic Crown Ether Analogs as Dehydrating Agents for Lanthanoid Salts?" Presented by M. M. Witt before the 40th Annual Undergraduate Symposium (1989, Chicago Section ACS), Libertyville, IL, Abstract.
34. H. D. Do, J. R. Peterson, and R. D. Rogers, "Synthetic Approaches Toward Anticancer Lignan Lactones," Presented by H. D. Do before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 185.
35. T. J. Smillie, J. R. Peterson, R. D. Rogers, and T. P. Conway, "Lignan Derivatives as Potential Platelet Activating Factor Antagonists," Presented by T. J. Smillie before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 244.
36. A. N. Rollins and R. D. Rogers, "Macrocyclic Complexation Chemistry. Structural Effects of Changing Anion and Anion Concentration in Complexes of Lanthanide(III) Ions and Crown Ethers," Presented by A. N. Rollins before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 139.
37. L. Nunez and R. D. Rogers, "Modification of the Lanthanide Ion Coordination Sphere Via Electrocrystallization of Hydrated Lanthanide Chloride Complexes of 12-Crown-4," Presented by L. Nunez before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 122.
38. R. F. Henry and R. D. Rogers, "Wrapping the Lanthanide Ion Coordination Sphere. A Study of Polyethylene Glycol Complexes with Four to Eight Donor Atoms," Presented by R. F. Henry before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 130.
39. A. H. Bond and R. D. Rogers, "Crystallographic Studies of Potential Macrocyclic Extractants for Cd," Presented by A. H. Bond before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 138.
40. J. Wolff, A. H. Bond, and R. D. Rogers, "Macrocyclic Complexation Chemistry. Four, Five, Six and Seven Donor Polyethylene Glycols as Acyclic Crown Ether-Like Complexing Agents of Mercury," Presented by J. Wolff before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 236.
41. K. C. Sturge, R. D. Rogers, and M. J. Zaworotko, "Reactivity of Iron(II) Mixed Sandwich Complexes Towards Nucleophiles," Presented by K. C. Sturge before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 110.
42. S. Christie, M. J. Zaworotko, and R. D. Rogers, "Synthesis and Characterization of Oxybenzoate Metal Complexes," Presented by S. Christie before the 23rd Great Lakes Regional ACS Meeting (1990), DeKalb, IL, Abstract 235.
43. T. J. Smillie, J. R. Peterson, R. D. Rogers, and T. P. Conway, "Lignan Derivatives as Potential Platelet Activating Factor Antagonists," Presented by T. J. Smillie before the 17th MALTO Medicinal Chemistry-Pharmacognosy Meeting (1990), Oklahoma City, OK.
44. A. H. Bond and R. D. Rogers, "Macrocyclic Complexation Chemistry of the Environmentally Toxic Metals," Presented by A. H. Bond before the 13th Mid-West Environmental Chemistry Workshop (1990), Urbana, IL, Abstract 21.
45. R. D. Rogers, "Investigation of Macrocyclic and Polyfunctional Acyclic Chelating Agents in the Development of Improved f-Element Extractants," Presented by R. D. Rogers before the 13th Mid-West Environmental Chemistry Workshop (1990), Urbana, IL, Abstract 20.
46. A. H. Bond and R. D. Rogers, "Synthetic and Crystallographic Studies of Novel Crown Ether and Polyethylene Glycol Complexes of Bi<sup>3+</sup>," Presented by Andrew H. Bond before the Argonne Undergraduate Symposium (1990), Argonne, IL, Abstract 91.
47. S. E. Huggins, A. H. Bond, A. N. Rollins, and R. D. Rogers, "Crystallographic Investigations of Polymer Crown-Ether Model Compounds," Presented by S. E. Huggins before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 301.

48. A. H. Bond and R. D. Rogers, "Crystallographic Investigations of Crown Ether and Polyethylene Glycol Complexes of Pb<sup>2+</sup>," Presented by A. H. Bond before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991) Indianapolis, IN, Abstract 302.
49. A. N. Rollins and R. D. Rogers, "Complexation of Mixtures of Hydrated Lanthanum Chloride with Other Hydrated Lanthanide Chloride Salts and 18-Crown-6," Presented by A. N. Rollins before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 303.
50. R. D. Rogers and A. H. Bond, "Evidence of a Stereochemically Active Lone Pair in the Complexation Chemistry of Bismuth(III) Halides with Crown Ethers and Polyethylene Glycols," Presented by R. D. Rogers before the 23rd Central/24th Great Lakes Joint Regional ACS Meeting (1991), Indianapolis, IN, Abstract 304.
51. A. H. Bond and R. D. Rogers, "Extraction of Bi<sup>+3</sup> Using Polyethylene Glycol Based Aqueous Biphasic Systems," Presented by A. H. Bond before the Amoco/University Poster Session (1991), Naperville, IL.
52. C. B. Bauer, R. D. Rogers, and A. H. Bond, "Aqueous Biphasic Systems for Liquid/Liquid Extraction of Americium, Plutonium, Thorium, and Uranium from Sulfate and Carbonate Media," Presented by C. B. Bauer before the Amoco/University Poster Session (1991), Naperville, IL.
53. Y. Song and R. D. Rogers, "The Investigation of Polyethylene Glycol-Based Aqueous Biphasic Systems for the Extraction of Transition Metal Ions," Presented by Y. Song before the Amoco/University Poster Session (1993), Naperville, IL, Abstract C68.
54. M. W. Brechbiel, O. A. Gansow, C. G. Pippin, R. P. Planalp, and R. D. Rogers, "Synthesis of Polyamino Carboxylate Chelating Agents and X-ray Structural Analysis of Metal Complexes," Presented by R. P. Planalp before the 29th ACS Middle Atlantic Regional Meeting (1995), Washington, DC, Abstract 191.
55. A. H. Bond, C. M. Tomasek, M. J. Gula, F. Chang, E. P. Horwitz, and R. D. Rogers "Concentration, Purification, and Recycle of Dyes from Salt Solutions," Presented by A. H. Bond before the American Association of Textile and Color Chemists/Northern Textile Association 33<sup>rd</sup> New England Regional Technical Conference (1997), Danvers, MA.
56. B. M. Rapko, B. K. McNamara, and R. D. Rogers, "Coordination Chemistry of Lanthanide Salts with *N,N,N',N'*-Tetramethylsuccinamide and *N,N,N',N'*-Tetrahexylsuccinamide," Presented by B. M. Rapko before the 53<sup>rd</sup> ACS Northwest Regional Meeting (NORM '98) (1998), Pasco, WA, Abstract 065.
57. R. D. Rogers, K. D. Smith, and S. K. Spear, "Aqueous Biphasic Systems: Polyethylene Glycol versus Polyethylene/Polypropylene Glycol Random Copolymer Phase Formation," Presented by K. D. Smith before the 51<sup>st</sup> Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 092.
58. R. D. Rogers, S. T. Griffin, and S. K. Spear, "Partitioning of Mercury using ABEC<sup>TM</sup> Resins," Presented by S. T. Griffin before the 51<sup>st</sup> Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 214.
59. R. D. Rogers, H. D. Willauer, and J. G. Huddleston, "Polymer-Based Aqueous Biphasic Extraction of Lignin During Alkaline Pulping," Presented by H. D. Willauer before the 51<sup>st</sup> Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 217.
60. R. D. Rogers, A. E. Visser, R. P. Swatloski, and D. H. Hartman, "Liquid/Liquid Extraction of Metal Ions in Room Temperature Ionic Liquids: Cation Effects," Presented by A. E. Visser before the 51<sup>st</sup> Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 595.
61. R. D. Rogers, G. A. Broker, C. V. K. Sharma, and G. J. Szulczewski, "Engineering Tetrapyridylporphyrin Coordination Complexes for Metal Ion Recognition in Crystalline Materials or on Surfaces," Presented by R. D. Rogers before the 51<sup>st</sup> Southeast Regional ACS Meeting, SERMACS-99 (1999), Knoxville, TN, Abstract 589.
62. R. D. Rogers, "Center for Green Manufacturing," presented by R. D. Rogers before the Green Chemistry Workshop, University of Regina, Energy Research Unit (1999), Regina, Saskatchewan, Canada (Invited Plenary).
63. R. D. Rogers, "Green Chemistry – International Definitions," Presented by R. D. Rogers before the Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering (2000), Mobile, AL.
64. R. D. Rogers, "R&D in UA's Center for Green Manufacturing," Presented by R. D. Rogers before the Industries of the Future Alabama Symposium: Sustainable Industry through Green Chemistry and Engineering (2000), Mobile, AL.
65. A. E. Visser, R. P. Swatloski, W. M. Reichert, R. D. Rogers, R. Mayton, S. Sheff, A. Wierzbicki, and J. H. Davis, Jr., "Task Specific Ionic Liquids: Urea Thiourea, and Thioether-Derivatized Imidazolium Cations for Hg<sup>2+</sup> and Cd<sup>2+</sup> Extraction in Liquid/Liquid Separations, Presented by A. E. Visser before the 52<sup>nd</sup> Southeast/56<sup>th</sup> Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 286.
66. W. M. Reichert, A. E. Visser, R. P. Swatloski, and R. D. Rogers, "Synthesis and Characterization of Novel Environmentally-Benign Solvents: Room Temperature Ionic Liquids," presented by W. M. Reichert before the 52<sup>nd</sup> Southeast/56<sup>th</sup> Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 285.
67. R. D. Rogers, R. P. Swatloski, A. E. Visser, and W. M. Reichert, "Reverse Crystal Engineering: Can We Use the Concepts Learned to Make New Room Temperature Ionic Liquids for Applications as Green Solvent Alternatives?" presented by R. D. Rogers before the 52<sup>nd</sup> Southeast/56<sup>th</sup> Southwest Combined Regional Meeting of the ACS (2000), New Orleans, LA, Abstract 203 (Invited Symposium Presentation).
68. R. D. Rogers, "Non-Sugar Products from Sugarcane for the New Millennium: Green Pathways to a Carbohydrate Economy?" Presented by R. D. Rogers to the Louisiana Division of the American Society of Sugar Cane Technologists, Baton Rouge, LA, on 2/6/01.
69. R. D. Rogers, "Innovations in the Sugar Industry," Presented by R. D. Rogers before the 32<sup>nd</sup> Annual Meeting of the American Society of Sugar Cane Technologists, Florida Division (2001), Belle Glade, FL, no abstract (Invited Keynote Presentation).

70. R. D. Rogers, "From Liquid Clathrates to Ionic Liquids," Presented by R. D. Rogers before the New Directions in Chemistry Symposium (2002), Columbia, MO (Invited Symposium Presentation).
71. R. D. Rogers and J. D. Holbrey, "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers before the 37<sup>th</sup> Midwest Regional ACS Meeting (2002), Lawrence, KS, Abstract 070 (Invited Symposium Presentation).
72. R. D. Rogers, G. A. Broker, K. E. Gutowski, and N. J. Bridges, "Crystal Engineering Using Lanthanide Ions as Nodes in Coordination Polymers," Presented by R. D. Rogers before the 54<sup>th</sup> Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 118 (Invited Symposium Presentation).
73. S. J. P'Pool, M. A. Klingshirn, J. D. Holbrey, R. D. Rogers, and K. H. Shaughnessy, "Polar, Non-Coordinating Ionic Liquids as Novel Solvents for Coordination Polymerization of Olefins," Presented by S. J. P'Pool before the 54<sup>th</sup> Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 275.
74. R. D. Rogers, J. D. Holbrey, and A. E. Visser, "Application of Task Specific Ionic Liquids to the Extraction of Hg<sup>2+</sup> and Actinides," Presented by R. D. Rogers before the 54<sup>th</sup> Southeast Regional ACS Meeting (2002), Charleston, SC, Abstract 575 (Invited Symposium Presentation).
75. R. D. Rogers, J. D. Holbrey, and W. M. Reichert, "Polymorphism in 'Ionic Liquids'," Presented by R. D. Rogers before the 38<sup>th</sup> Midwest Regional ACS Meeting (2003), Columbia, MO, Abstract 364. (Invited Symposium Presentation).
76. S. Spear, J. Holbrey, and R. Rogers, "Ionic liquids as solvents in green chemistry: from fundamental studies to applied implementation," Presented by S. Spear before the 55<sup>th</sup> Southeast Regional ACS Meeting (2003), Atlanta, GA, Abstract 890.
77. V. A. Cocalia, M. P. Jensen, J. D. Holbrey, S. K. Spear, and R. D. Rogers, "Coordination of Trivalent *f*-elements and Uranyl Ions with Cyanex-272<sup>®</sup> in the Hydrophobic Ionic Liquid, 1-Decyl-3-methylimidazolium Bis(trifluoro-methanesulfonyl)imide", Presented by V. A. Cocalia at Alabama Actinide Day (2004), Auburn, AL.
78. N. J. Bridges and R. D. Rogers "Actinide Extractions from Nitric Acid using Cyanex 923 in [C<sub>10</sub>mim][Tf<sub>2</sub>N]," Presented by N. J. Bridges at Alabama Actinide Day (2004), Auburn, AL.
79. K. E. Gutowski, G. A. Broker, H. D. Willauer, S. K. Spear, and R. D. Rogers "Ionic Liquids in Nuclear Processing and Waste Remediation Applications," Presented by K. E. Gutowski at Alabama Actinide Day (2004), Auburn, AL.
80. S. Memon, K. Caldwell, G. Caldwell, and R. D. Rogers, "Using *Caenorhabditis Elegans* to Probe the Toxicity of Ionic Liquids," Presented by S. Memon to The University of Alabama College of Arts & Sciences Undergraduate Research and Creative Activity Presentations Competition (2004), Tuscaloosa, AL. (First Place Natural Sciences Division Award)
81. J. H. Poplin, R. P. Swatloski, S. K. Spear, J. D. Holbrey, and R. D. Rogers, "Cellulose-Supported Colorimetric Sensors for Mercury Ion Detection," Presented by J. H. Poplin to The University of Alabama College of Arts & Sciences Undergraduate Research and Creative Activity Presentations Competition (2004), Tuscaloosa, AL. (Third Place Natural Sciences Division Award)
82. J. S. Moulthrop, R. P. Swatloski, R. D. Rogers, and G. Moyna, "High-Resolution <sup>13</sup>C NMR Studies of Amylose and Cellulose Oligomers in 1-Butyl-3-methylimidazolium Chloride Solutions," Presented by J. S. Moulthrop to the local Sigma Xi Chapter (2004), Philadelphia, PA.
83. R. D. Rogers, S. K. Spear, and J. D. Holbrey, "Ionic Liquids: Fundamental Studies to Technological Applications in Support of Green Chemistry," Presented by R. D. Rogers before the 60<sup>th</sup> Southwest Regional ACS Meeting (2004), Ft. Worth, TX, Abstract 265. (Invited Presentation)
84. R. D. Rogers, "Radiochemistry at The University of Alabama," Presented by R. D. Rogers before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
85. K. E. Gutowski, D. A. Dixon, and R. D. Rogers "Probing Gas-phase Uranyl-Orthophosphate Structure with Density Functional Theory," Presented by K. E. Gutowski before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
86. V. A. Cocalia and R. D. Rogers, "Ionic Liquids and Actinides", Presented by V. A. Cocalia before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
87. N. J. Bridges and R. D. Rogers "Aqueous Biphasic Systems (ABS) for the Removal and Recovery of Tc(VI) from High Salt Solutions," Presented by N. J. Bridges before the Alabama Actinide Day Conference (2005), Tuscaloosa, AL.
88. S. B. Memon, G. Caldwell, K. Caldwell, and R. Rogers, "Using *Caenorhabditis elegans* to probe the toxicity of ionic liquids," Presented by S. B. Memon, before the Fourth Annual University of Alabama System Honors Research Day (2005), Birmingham, AL, Abstract A4.
89. W. L. Hough and R. D. Rogers, "Ionic Liquids: The Next Generation of Sweeteners," Presented by W. L. Hough before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
90. T. B. Wilson and R. D. Rogers, "Thermal Studies of Dual Functional Ionic Liquids," Presented by T. B. Wilson before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
91. J. H. Poplin and R. D. Rogers, "Utilizing Potentially Green Ionic Liquids: Development of Cellulose Based Magnetic Materials," Presented by J. H. Poplin before the Second Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2005), Tuscaloosa, AL, Abstract.
92. M. B. Townsend, P. L. Jernigan, M. M. Bailey, S. R. Smith, J. F. Rasco, R. P. Swatloski, R. D. Rogers, and R. D. Hood "Effects of 1-Butyl-3-Methylimidazolium Chloride on Developmental Toxicity in Mice," Presented by M. B. Townsend before the Howard Hughes Poster Session (2005), Tuscaloosa, AL.

93. P. L. Jernigan, M. B. Townsend, M. M. Bailey, S. R. Smith, J. F. Rasco, R. P. Swatloski, R. D. Rogers, and R. D. Hood, "Effects of 1-Decyl-3-Methylimidazolium Chloride on Fetal Development of Mice," Presented by P. L. Jernigan before the Howard Hughes Poster Session (2005), Tuscaloosa, AL.
94. M. L. Moody, J. G. Huddleston, S. T. Griffin, and R. D. Rogers, "Aqueous Influence on the Solvent Properties of Polyethylene Glycol," Presented by M. L. Moody before the 57<sup>th</sup> Southeast/61<sup>st</sup> Southwest Joint Regional ACS Meeting (2005), Memphis, TN, Abstract Nov 04-098.
95. D. T. Daly and R. D. Rogers, "Multi-Functional Ionic Liquid Compositions Improved Properties for Active Pharmaceutical, Biological, and Nutritional Ingredients," Presented by D. T. Daly before the Biotechnology Association of Alabama Annual Meeting (2006), Birmingham, AL.
96. R. D. Rogers, "Green Chemistry: An Overview," Presented by R. D. Rogers before the Alabama Health and Safety Conference (2006), Tuscaloosa, AL (Keynote Speaker).
97. W. L. Hough and R. D. Rogers, "Dual Function Ionic Liquids," Presented by W. L. Hough before the Third Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2006), Tuscaloosa, AL, Abstract 16A.
98. M. B. Suggs and R. D. Rogers, "Regeneration of Cellulose Membranes with Ionic Liquids," Presented by M. B. Suggs before the Third Annual Undergraduate Research and Creative Activity Oral and Poster Presentations Competition (2006), Tuscaloosa, AL, Abstract 28A.
99. S. K. Spear, S.T. Griffin, W. M. Reichert, and R. D. Rogers, "Applications of Bio-Solvents to the Nuclear Power Industry," Presented by S. K. Spear before the 5<sup>th</sup> Southern Bioproducts and Renewable Energy Conference (2006), Choctaw, MS.
100. R. D. Rogers, "Green Chemistry: Can Society and the Chemical Industry Co-Exist?" Presented by R. D. Rogers before the 29<sup>th</sup> Annual Area Collegiate Chemistry Meeting in conjunction with the Industry-Academe Interaction for Green Chemistry Meeting (2006), Martin, TN. (Invited Panel Participant)
101. R. D. Rogers, R. P. Swatloski, G. Moyna, D. A. Fort, and P. Moyna, "Use of ionic liquids in the study of fruit ripening by high-resolution <sup>13</sup>C NMR spectroscopy: 'Green' solvents meet green bananas," by R. D. Rogers before the 37<sup>th</sup> Great Lakes Regional ACS Meeting (2006), Milwaukee, WI, Abstract 068. (Invited Presentation)
102. R. D. Rogers, "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented to the Queen's University of Belfast QUILL Ionic Liquids Week (2008), Belfast, NI. No Abstract. (Invited Presentation)
103. R. D. Rogers, "Ionic Liquids," The University of Alabama IP Forum (2008), Tuscaloosa, AL.
104. S. Watts, D. Daly, R. Frazier, R. Rogers, and W. Hough-Troutman, "Slow Release of an Active Ingredient from Ionic Liquid Regenerated Cellulose Beads," Presented by S. Watts before The University of Alabama First Annual Undergraduate Research and Creative Activity Conference (2008), Tuscaloosa, AL; Abstract Book. (Second Place Poster)
105. S. Mroczynski, D. Daly, S. Spear, and R. D. Rogers, "Strength from the Sea," Presented by S. Mroczynski before The University of Alabama First Annual Undergraduate Research and Creative Activity Conference (2008), Tuscaloosa, AL.
106. N. Sun, M. Rahman, Y. Qin, M. L. Maxim, and R. D. Rogers, "Dissolution and Separation of Biomass Utilizing Ionic Liquids" Presented by N. Sun before the 60<sup>th</sup> Southeast Regional Meeting of the American Chemical Society (SERMACS) (2008), Nashville, TN, Abstract 250.
107. N. J. Bridges, T. M. Adams, A. E. Visser, M. J. Williamson, and R. D. Rogers, "Ionic Liquids from Phase Modifier to Solvent for Future Nuclear Fuel Processing," Presented by N. J. Bridges before the 60<sup>th</sup> Southeast Regional Meeting of the American Chemical Society (SERMACS) (2008), Nashville, TN, Abstract 647.
108. J. Sherrill, J. Beaird, J. F. Rasco, J. M. Sturdivant, M. B. Townsend, P. L. Jernigan, R. D. Hood, R. P. Swatloski, R. D. Rogers, and M. M. Bailey, "Developmental Toxicity of Ionic Liquids," Presented by J. Sherrill before the 86<sup>th</sup> Annual Meeting of the Alabama Academy of Science (2009), Livingston, AL, Abstract: *J. Alabama Acad. Sci.* **2009**, *80*, 117-118.
109. A. Metlen and R. D. Rogers, "Dithiocarbamate Salts and Ionic Liquids," Poster presented by A. Metlen at the QUILL 10<sup>th</sup> Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
110. Y. Zou, J. D. Holbrey, and R. D. Rogers, "Ionic Liquids for Aromatic and Aliphatic Hydrocarbon Separation," Poster presented by Y. Zou at the QUILL 10<sup>th</sup> Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
111. R. D. Rogers "Ionic Liquids: At the Intersections," Presented by R. D. Rogers at the QUILL 10<sup>th</sup> Anniversary Meeting (March-April 2009), Belfast, Northern Ireland, UK.
112. D. M. Drab, J. L. Shamshina, S. Smiglak, C. C. Hines, D. B. Cordes, and R. D. Rogers, "Establishing a flexible synthetic design platform for multi-heterocyclic ionic liquids: Introduction of concept and initial demonstration," Presented by D. M. Drab at the 13<sup>th</sup> Annual Graduate Student Association Research and Thesis Conference (2010), The University of Alabama, Tuscaloosa, AL, Abstract Book.
113. S. Kyle Lee, W. Hough-Troutman, R. D. Rogers, K. A. Caldwell, and G. A. Caldwell, "Searching for Ionic Liquid Partners That Will Enhance the Neuroprotective Role of Lidocaine," Presented by S. Kyle Lee before the UA Undergraduate Research Competition (2010), Tuscaloosa, AL.
114. R. D. Rogers, "Green Chemistry, Technology, & Innovation," Presented by R. D. Rogers at the Crimson In Green: An Energy Forum (February 17, 2012), Tuscaloosa, AL, No Abstract (Invited Speaker).
115. R. D. Rogers, "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers before the Inaugural SEC Symposium: Impact of the Southeast in the World's Renewable Energy Future (Feb. 10-12, 2013), Atlanta, GA, Abstract Book p 34. (Invited Presenter).



116. P. D. McCrary, L. A. Flores, G. Chatel, and R. D. Rogers, "Evaluating Ionic Liquids as Hypergolic Fuels: From Reactive Nanomaterials to Trigger Additives," Presented by P. D. McCrary before the Energetic Ionic Liquid Mini-Symposium (May 21-22, 2013), Air Force Research Laboratory, Edwards Air Force Base, CA, No Abstract.
117. L. A. Flores, P. D. McCrary, G. Chatel, O. Andreea Cojocaru, and R. D. Rogers, "Molecular Characteristics and Interactions Leading to Liquid Clathrate Behavior," Presented by L. A. Flores before the Energetic Ionic Liquid Mini-Symposium (May 21-22, 2013), Air Force Research Laboratory, Edwards Air Force Base, CA, No Abstract.
118. R. D. Rogers and S. P. Kelley, "Supramolecular chemistry in the liquid state: What can halogen bonding offer ionic liquids?" Presented by R. D. Rogers before the 49<sup>th</sup> Midwest Regional Meeting of the American Chemical Society (November 12-15, 2014), Columbia, MO, Abstract 384.
119. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers before the 3<sup>rd</sup> Annual *Sustainable Innovation through Green Chemistry* Workshop and Case Competition Schedule (January 16-17, 2015), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).
120. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A Sustainable Bio-based Economy," Presented by R. D. Rogers before the Quebec-Ontario Biotech Meeting (May 21-22, 2015), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).
121. R. D. Rogers, "What is an Appropriate Academic Business Model to Drive Commercialization of Sustainable Technology?" Presented by R. D. Rogers before the Science for a Sustainable Society Symposium (January 26-27, 2016), McGill University, Montreal, QC, Canada, No Abstract (Invited Keynote).

## E. Seminars:

1. "C<sub>1</sub> Chemistry in Group IVB - Some Structural Aspects," Presented by R. D. Rogers at Bell Laboratories, Murray Hill, NJ, on 8/15/83.
2. "Structural Investigations of New Pentamethylcyclopentadienyl Derivatives of Group IVB," Presented by R. D. Rogers at Northwestern University, Evanston, IL on 2/3/84.
3. "Early Transition Metal Chemistry: A Structural Point of View," Presented by R. D. Rogers at the Instituto Venezolano de Investigaciones Cientifica, Caracas, Venezuela on 8/15/84.
4. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at Fisk University, Nashville, TN on 3/18/85.
5. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at Tuskegee Institute, Tuskegee, AL on 3/20/85.
6. "Structural Organometallic Chemistry of the Early Transition Metals," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL on 3/21/85.
7. "Crown Ether Coordination in the f-Element Series," Presented by R. D. Rogers at the University of Illinois at Chicago, Chicago, IL on 2/18/86.
8. "Early Transition Metal Chemistry - A Structural Point of View," Presented by R. D. Rogers at Marquette University, Milwaukee, WI on 3/21/86.
9. "f-Element/Crown Ether Complexes, Structural Effects of Solvent and Water of Hydration Hydrogen Bonding," Presented by R. D. Rogers at Victoria University, Wellington, New Zealand on 7/24/87.
10. "f-Element/Crown Ether Complexes," Presented by R. D. Rogers at the University of Hawaii, Honolulu, HA on 8/26/87.
11. "f-Element/Crown Ether Complexes," Presented by R. D. Rogers at the University of Toledo, Toledo, OH on 10/14/87.
12. "Hydrogen Bonding in f-Element Complexes of Crown Ethers," Presented by R. D. Rogers at Ripon College, Ripon, WI, on 11/22/88.
13. "Crown Ether Complexation Chemistry of the Lanthanides," Presented by R. D. Rogers at Albany State College, Albany, GA, on 2/10/89.
14. "Crown Ether Complexation Chemistry of the Lanthanides," Presented by R. D. Rogers at Tuskegee University, Tuskegee, AL, on 2/13/89.
15. "f-Element/Crown Ether Complex Chemistry," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 2/14/89.
16. "Crown Ether Chemistry of the Lanthanides," Presented by R. D. Rogers at Saint Mary's University, Halifax, Canada on 3/3/89.
17. "Coordination versus Hydrogen Bonding in Crown Ether Complexes of Hydrated f-Element Salts," Presented by R. D. Rogers at Dalhousie University, Halifax, Canada, on 3/3/89.
18. "Macrocyclic Complexation Chemistry: The Toxic Metals (Cd, Hg, Tl, Pb, Bi) and Their Removal from the Environment," Presented by R. D. Rogers at Western Michigan University, Kalamazoo, MI, on 10/23/89.
19. "Macrocyclic Complexation Chemistry: The Toxic Metals (Cd, Hg, Tl, Pb, Bi) and Their Removal from the Environment," Presented by R. D. Rogers at Rockford College, Rockford, IL, on 3/27/90.
20. "Structural Characterization of Light Atom Structures via X-ray Crystallography," Presented by R. D. Rogers at The University of Mississippi, Oxford, MS, on 4/10/90.
21. "The Toxic Metals and Their Removal from the Environment," Presented by R. D. Rogers at Illinois Benedictine College, Lisle, IL, on 4/19/90.
22. "Crown Ether vs. Polyethylene Glycol Complexation of Lanthanide Chlorides," Presented by R. D. Rogers at Indiana University, Bloomington, IN, on 2/28/91.
23. "Polyethylene Glycols as Ionizable Complexing Agents of Bi<sup>+3</sup>," Presented by R. D. Rogers at Indiana University, Bloomington, IN, on 3/1/91.
24. "Investigations of Polyethylene Glycols as Complexing Agents and Liquid/Liquid Extraction Diluents for Bismuth," Presented by R. D. Rogers at Loyola University of Chicago, Chicago, IL, on 9/19/91.
25. "Polyethylene Glycols and Metal Ions: Structural Chemistry to Aqueous Biphasic Extraction," Presented by R. D. Rogers at the Universität Bayreuth, Bayreuth, Germany, on 6/23/92.
26. "Polyethylene Glycols: From Coordination Chemistry of Metal Cations to Unique Systems for Dissolved Metal Ion Separations," Presented by R. D. Rogers at the University of Groningen, Groningen, The Netherlands, on 7/2/92.
27. "Macrocyclic Complexation Chemistry: Toxic Metals and Their Removal from the Environment," Presented by R. D. Rogers at Elmhurst College, Elmhurst, IL, on 11/18/92.
28. "Aqueous Biphasic Systems: New Systems for Metal Ion Extraction," Presented by R. D. Rogers at Los Alamos National Laboratory, Los Alamos, NM, on 5/26/93.
29. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at the University of New Mexico, Albuquerque, NM, on 9/24/93.
30. "Structural Investigation of Cyclic and Acyclic Polyether Complexes - Cation Control of Coordination," Presented by R. D. Rogers at Valparaiso University, Valparaiso, IN, on 12/10/93.
31. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at Loyola University of Chicago, Chicago, IL, on 4/14/94.

32. "The Effects of Polyethylene Glycol on the Coordination Sphere of Strontium: Are PEGs Useful in Sr<sup>2+</sup> Extraction Technologies?" Presented by R. D. Rogers at Oak Ridge National Laboratory, Oak Ridge, TN, on 5/16/94.
33. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Systems for Novel Metal Ion Separations," Presented by R. D. Rogers at Union Carbide Corporation, South Charleston, WV, on 6/3/94.
34. "The Effects of Polyethylene Glycol on the Coordination Sphere of Strontium: Are PEGs Useful in Sr<sup>2+</sup> Extraction Technologies?" Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 6/22/94.
35. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Ways to Separate Metal Ions," Presented by R. D. Rogers at Western Michigan University, Kalamazoo, MI, on 10/10/94.
36. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Ways to Separate Metal Ions," Presented by R. D. Rogers at the University of Wisconsin-Oshkosh, Oshkosh, WI, on 11/10/94
37. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at the University of Sevilla, Sevilla, Spain, on 6/16/95.
38. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL, on 7/12/95.
39. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Iowa, Iowa City, IA, on 9/13/95.
40. "Polyethylene Glycols: Coordination Chemistry of Metal Cations to Unique Systems for Metal Ion Separations," Presented by R. D. Rogers at The University of Wisconsin at Milwaukee, Milwaukee, WI, on 10/9/95.
41. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Argonne National Laboratory, Argonne, IL, on 1/29/96.
42. "Polyethylene Glycol-Based Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Monash University, Clayton, Victoria, Australia, on 3/19/96.
43. "ABEC Resins: From Aqueous Biphasic Novelties to Selective Aqueous Biphasic Extraction Chromatography Resins for Metal Ions," Presented by R. D. Rogers at Mississippi State University, Starkville, MS, on 1/24/97.
44. "Green Chemistry in Separation Science," Presented by R. D. Rogers at the March meeting of the Alabama Section of The American Chemical Society, Birmingham, AL, on 3/20/97.
45. "ABEC Resins: From Aqueous Biphasic Novelties to Selective Aqueous Biphasic Extraction Chromatography Resins for Metal Ions," Presented by R. D. Rogers at the University of Alabama at Huntsville, Huntsville, AL, on 3/28/97.
46. "The SMART System at The University of Alabama: Experiences, Reflections, and Data," Presented by R. D. Rogers at the Siemens Area Detector Users Group Meeting (SADUG97), Athens, GA, on 4/19/97.
47. "Coordination Chemistry and Separations of Actinides," Presented by R. D. Rogers at Florida State University, Tallahassee, FL, on 4/24/97.
48. "Polyethylene Glycol-Based Aqueous Biphasic Systems and ABEC Resins for the Selective Removal and Recovery of Metal Ions," Presented by R. D. Rogers at the University of Birmingham, Birmingham, England, UK, on 5/21/97.
49. "Polyethylene Glycol-Based ABEC Resins for the Selective Removal of Technetium from Hanford Tank Wastes," Presented by R. D. Rogers at British Nuclear Fuels, Ltd., Preston, England, UK, on 5/22/97.
50. "Aqueous Biphasic Systems: New Technologies for Metal Ion Separations," Presented by R. D. Rogers at Queen's University, Belfast, Northern Ireland, UK, on 5/27/97.
51. "Clean Separation Technologies," Presented by R. D. Rogers at the University of New Hampshire, Durham, NH, on 7/24/97.
52. "Clean Separation Technologies," Presented by R. D. Rogers at the University of Marburg, Marburg, Germany, on 9/26/97.
53. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Clemson University, Clemson, SC, on 10/1/97.
54. "Utilization of Polyethylene Glycol in Industrially and Environmentally Important Separations," Presented by R. D. Rogers at Union Carbide, South Charleston, WV, on 10/3/97.
55. "Clean Separation Technologies," Presented by R. D. Rogers at The University of Alabama (Chemical Engineering Department), Tuscaloosa, AL, on 10/9/97.
56. "Polyethylene Glycol-Based Aqueous Biphasic Systems and ABEC Resins for the Selective Removal and Recovery of Metal Ions," Presented by R. D. Rogers at the University of Tennessee at Knoxville, Knoxville, TN, on 2/5/98.
57. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Oak Ridge National Laboratory, Oak Ridge, TN, on 2/6/98.
58. "Green Separation Science: Traditional Polymeric Supports to Crystal Engineered Inorganic Polymers," Presented by R. D. Rogers at Tennessee Technological University, Cookeville, TN, on 2/19/98.
59. "Coordination Chemistry to Crystal Engineering," Presented by R. D. Rogers at the University of Puerto Rico, San Juan, PR, on 4/6/98.
60. "Clean Separations Using Non-Toxic Aqueous Polymers: In Support of Vision 2020," Presented by R. D. Rogers in the J. Clarence Karcher Lecture series at the University of Oklahoma, Norman, OK, on 4/23/98.
61. "Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at the University of Mississippi, Oxford, MS, on 12/4/98.
62. "Green Separation Science and technology: Using Environmentally Benign Liquid/Liquid Extraction Media for Metal Ion Separations: Aqueous Biphasic Systems and Room temperature Ionic Liquids," Presented by R. D. Rogers at the Exxon Research and Development Laboratories, Baton Rouge, LA, on 5/7/00.

63. "Green Separation Science and Technology: Using Environmentally Benign Liquid/Liquid Extraction Media, Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at the University of South Alabama, Mobile, AL, on 5/21/99.
64. "Environmentally Benign Liquid/Liquid Extraction Media: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at Pacific Northwest National Laboratory, Richland, WA, on 10/7/99.
65. "Environmentally Benign Liquid/Liquid Extraction Media: Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Presented by R. D. Rogers at Washington State University, Pullman, WA, on 10/8/99.
66. "A Toolbox Approach to Green Separations Science & Technology: Crystal Engineering, Aqueous Biphasic Systems, and Room Temperature Ionic Liquids," Presented by R. D. Rogers at The University of Kentucky, Lexington, KY, on 10/28/99.
67. "Room Temperature Ionic Liquids as VOC Solvent Replacements," Presented by R. D. Rogers at Mercer University, Macon, GA, on 11/9/99.
68. "Ionic Liquids in Separations," Presented by R. D. Rogers at Queen's University, Belfast, Northern Ireland, UK, during Ionic Liquid Week, 1/31/00-2/4/00.
69. "Green Chemistry and Ionic Liquids: Sustainable Industrial Development from Academic Challenges," Presented by R. D. Rogers at Birmingham Southern College, Birmingham, AL, on 2/29/00.
70. "Ionic Liquids in Separations," Presented by R. D. Rogers as the 2<sup>nd</sup> Queen's University Ionic Liquid Laboratory Lecture, Queen's University, Belfast, Northern Ireland, UK on 4/3/00.
71. "Ionic versus Molecular Solvents: Challenges in Adopting Ionic Liquids as Alternative Reaction Media," Presented by R. D. Rogers at the University of Florida, Gainesville, FL on 5/3/00.
72. "The Role of the Sugar Industry in the New Green Chemistry & Engineering Paradigm of Sustainable Industry," Presented by R. D. Rogers at the Sugar Cane Growers Cooperative of Florida, Belle Glade, FL on 5/4/00.
73. "Ionic Liquids & Their Application to Separation Processes," Presented by R. D. Rogers at Union Carbide, South Charleston, WV on 5/9/00.
74. "Crystal Engineering of Coordination Polymers," Presented by R. D. Rogers at Université Louis Pasteur, Strasbourg, France on 6/7/00 (Visiting Professor Lecture).
75. "Green Chemistry and Applications of Ionic Liquids as Solvents," Presented by R. D. Rogers at Université Louis Pasteur, Strasbourg, France on 6/16/00 (Visiting Professor Lecture).
76. "How Green Chemistry can Shape the Future of the Chemical Industry," Presented by R. D. Rogers at the Green Chemical Processes –Issue, Challenges, Innovations, Technical Symposium, BP Amoco Chemicals Central Technology, Naperville, IL on 7/11/00.
77. "Engineering Tetrapyrrolylporphyrin Coordination Complexes for Metal Ion Recognition in Crystalline Materials or on Surfaces," Presented by R. D. Rogers at Emory University on 9/28/00.
78. "Ionic Liquids as Alternatives to Organic Solvents" Presented by R. D. Rogers at North Carolina State University, Raleigh, NC on 10/5/00.
79. "Ionic Liquids as Alternatives to Organic Solvents" Presented by R. D. Rogers at Kennedy Space Center, Cape Canaveral, FL on 10/6/00.
80. "Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Dow Agrosiences LLC, Indianapolis, IN on 10/30/00.
81. "Ionic Liquids," Presented by R. D. Rogers at University of Massachusetts at Boston, Boston, MA on 11/28/00.
82. "Room Temperature Ionic Liquids as Alternative Reaction Media," Presented by R. D. Rogers at Tulane University, New Orleans, LA on 12/5/00.
83. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Louisiana State University, Baton Rouge, LA on 1/31/01.
84. "Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Dow Corning, Midland, MI on 2/5/01.
85. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at University of South Florida, Tampa, FL on 4/19/01. "Ionic Liquids as 'Green' Alternatives to Organic Solvents," Presented by R. D. Rogers at Cognis Corporation, Cincinnati, OH on 5/16/01.
87. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at the U.S. Environmental Protection Agency, Washington, DC on 5/23/01.
88. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Tennessee State University, Nashville, TN on 10/18/01.
89. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at the University of Illinois at Urbana-Champaign, Urbana, IL on 2/12/02.
90. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Wesleyan University, Middletown, CT on 2/15/02.
91. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers at Kansas State University, Manhattan, KS on 2/22/02.
92. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Stellenbosch University, Stellenbosch, South Africa on 3/20/02.
93. "Non-Sugar Products from Sugarcane for the New Millennium: Green Pathways to a Carbohydrate Economy?" Presented by R.

- D. Rogers to the Sugar Milling Research Institute, Durban, South Africa on 3/26/02.
94. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Monsanto Company, St. Louis, MO on 6/6/02.
  95. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to The Dow Chemical Company, Midland, MI on 6/19/02.
  96. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to The Lubrizol Corporation, Cleveland, OH on 7/24/02.
  97. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Honeywell Corporation, Buffalo, NY on 8/14/02.
  98. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Eastman Corporation, Kingsport, TN on 10/28/02.
  99. "Ionic Liquids: What are They? Are They Useful? And the Case of the Missing Data," Presented by R. D. Rogers to Savannah River Technical Center, SC on 11/13/02.
  100. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Auburn University, Auburn, AL on 1/16/03.
  101. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to GE Global Research Center, Schenectady, NY on 2/3/03.
  102. "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers to AstraZeneca, Loughborough, United Kingdom on 3/28/03.
  103. "Green Chemistry" in Pursuit of Traditional Chemical Research, Education, and Service: A Path Forward for the University of Massachusetts- Boston?" Presented by R. D. Rogers to the University of Massachusetts-Boston, Boston, MA on 5/5/03.
  104. "Radiochemistry in the Rogers Group at The University of Alabama," Presented by R. D. Rogers at The University of Alabama, Tuscaloosa, AL on 8/28/03.
  105. "Challenges and Opportunities in the Use of Ionic Liquids: Separations, Extractions, and the Choice of Ionic Liquid," Presented by R. D. Rogers to Los Alamos National Laboratory, Los Alamos, NM on 9/18/03.
  106. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Mississippi State University, Starkville, MS on 10/17/03.
  107. "Ionic Liquids as Green Solvents: Engineering New Bio-Based Materials," Presented by R. D. Rogers at the University of Alabama at Huntsville, Huntsville, AL on 1/16/04.
  108. "Green Chemistry and Applications of Ionic Liquids as Solvents: Synergies and Ironies," Presented by R. D. Rogers to Sun Yat-Sen University, Guangzhou, China on 2/23/04.
  109. "A Burnum Legacy: Red Chemistry, Green Chemistry, and My Road from Alabama to Alabama" Presented by R. D. Rogers to The University of Alabama (Burnum Award Address), Tuscaloosa, AL on 4/6/04.
  110. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids for Extreme Environments (i.e. NASA)?" Presented by R. D. Rogers to Marshall Space Flight Center, Huntsville, AL on 4/8/04.
  111. "Green Chemistry" in Pursuit of Traditional Chemical Research, Education, and Service: A Path Forward for the University of Central Florida?" Presented by R. D. Rogers to the University of Central Florida, Orlando, FL on 4/14/04.
  112. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to BASF Corporation, Ludwigshafen, Germany on 4/26/04.
  113. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to Merck KGaA, Darmstadt, Germany on 4/27/04.
  114. "Advanced Materials from Direct Dissolution of Cellulose," Presented to by R. D. Rogers to Gulf States Paper Corporation, Tuscaloosa, AL on 6/7/04.
  115. "Applications of Ionic Liquid Technologies to f-Element Separations," Presented by R. D. Rogers to the E. O. Lawrence Berkeley Laboratory, Berkeley, CA on 6/16/04.
  116. "Ionic Liquids: An Overview," Presented by R. D. Rogers to Stepan Company, Northfield, IL on 8/20/04.
  117. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to the U. S. Environmental Protection Agency, National Risk Management Research Laboratory, Cincinnati, OH on 9/1/04.
  118. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to Davidson College, Davidson, NC on 9/2/04.
  119. "Ionic Liquids: An Overview," Presented by R. D. Rogers to The Proctor & Gamble Company, Cincinnati, OH on 11/10/04.
  120. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the Swiss Federal Institute of Technology at Lausanne, Switzerland, on 10/13/04.
  121. "Ionic Liquid Processing of Cellulose," Presented by R. D. Rogers to Lenzing AG, Lenzing, Austria, on 10/18/04.
  122. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids?" Presented by R. D. Rogers to the University of South Dakota, Vermillion, SD on 11/1/04.
  123. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the Naval Research Laboratory, Washington, DC on 11/9/04.
  124. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the University of Missouri, Columbia, MO on 11/11/04.
  125. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to Howard

- University, Washington, DC on 12/3/04.
126. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 12/13/04.
  127. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to Wake Forest University, Winston, NC on 1/12/05.
  128. "Supramolecular Chemistry in Alternative Solvents: Are Nonvolatile Ionic Liquids Effective Crystallization Solvents or Fodder for Co-Crystals?" Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 3/16/05.
  129. "Green Chemistry – An Overview," Presented by R. D. Rogers to the University of Bucharest, Bucharest, Romania on 3/17/05.
  130. "Ionic Liquids: Solvents for Cellulose," Presented by R. D. Rogers to the U.S. Bureau of Engraving and Printing, Washington, DC on 4/29/05.
  131. "Ionic Liquids: Applications are Coming; Get Ready Now!," Presented by R. D. Rogers to NIEHS, Raleigh, NC, on 5/4/05.
  132. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between" Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 5/26/05.
  133. "Ionic Liquids: Solvents for Green Chemistry or Advanced Technological Fluids? (R&D, Trends, and Practical Application)," Presented by R. D. Rogers to Merck KGaA, Darmstadt, Germany on 6/16/05.
  134. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents for Crystal Engineering to Advanced New Materials," Presented by R. D. Rogers to The University of Tokyo, Tokyo, Japan on 7/20/05.
  135. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Tokyo University of Agricultural and Technology, Tokyo, Japan on 7/21/05.
  136. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents for Crystal Engineering to Advanced New Materials," Presented by R. D. Rogers to Kyoto University, Kyoto, Japan on 7/22/05.
  137. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Eastman Kodak Company, Rochester, NY on 8/9/05.
  138. "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers to the Air Force Research Laboratory, Edwards Air Force Base, CA on 8/11/05.
  139. "A Platform Strategy Using Ionic Liquids to Dissolve and Process Cellulose for Advanced New Materials," Presented by R. D. Rogers to FMC BioPolymer, Princeton, NJ on 9/13/05.
  140. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the Changchung Institute of Applied Chemistry, Chinese Academy of Sciences, Changchung, China on 9/27/05.
  141. "Energetic Ionic Liquids: Fundamental Studies Relating Target Structures and Key Physical Properties," Presented by R. D. Rogers to the American Pacific/Georgia Tech. Roundtable, Atlanta, GA on 10/6/05; (also Panel Member for the Energetic Materials Panel Discussion).
  142. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the University of South Carolina, Columbia, SC on 11/18/05.
  143. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies for New Advanced Materials," Presented by R. D. Rogers to the University of Southern Mississippi, Hattiesburg, MS on 12/2/05.
  144. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to the DuPont 2005 Discovery Chemistry Seminar Series, DuPont Central Research and Development, Wilmington, DE on 12/7/05.
  145. "Green Chemistry and Applications of Ionic Liquids as Solvents," Presented by R. D. Rogers to Jackson State University, Jackson, MS on 1/27/06.
  146. "Designer Ionic Liquids Enabling Sustainable Technologies," Presented by R. D. Rogers to Millennium Chemical/Lyondell, Baltimore, MD on 2/28/06.
  147. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers as the Arnold C. Ott Lectureship in Chemistry (research presentation), Grand Valley State University, Allendale, MI on 4/5/06.
  148. "Green Chemistry: Can Society and the Chemical Industry Co-Exist?" Presented by R. D. Rogers as the Arnold C. Ott Lectureship in Chemistry (public lecture), Grand Valley State University, Grand Rapids, MI on 4/5/06.
  149. "Ionic Liquids," Presented by R. D. Rogers to Albion College, Albion, MI on 4/7/06.
  150. "How the Center for Green Manufacturing Can Impact Alabama," Presented by R. D. Rogers to the Tuscaloosa League of Women Voters, Tuscaloosa, AL on 4/20/06.
  151. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the 7<sup>th</sup> Annual Science Symposium *The Science of Sustainability, A Balance for the Future*, St. Olaf College, Northfield, MN on 5/5/06. (Invited Keynote Lecture)
  152. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Cologne, Cologne, Germany on 5/16/06.
  153. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at IREs Chimie Nucleaire Strasbourg, France on 6/14/06.
  154. "Green Chemistry, Ionic Liquids, Advanced Materials, and Everything in Between," Presented by R. D. Rogers at the Institute Le Bel, Université Louis Pasteur, Strasbourg, France on 6/15/06 (Visiting Professor Lecture).
  155. "Strategies Toward the Design of Energetic Materials," Presented by R. D. Rogers at the Institute Le Bel, Université Louis Pasteur, Strasbourg, France on 6/16/06 (Visiting Professor Lecture).

156. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the Stamford Seminar Series, Cytex Industries, Inc., Stamford, CT on 10/18/06.
157. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Texas San Antonio, San Antonio, TX on 10/20/06.
158. "Green Chemistry and Applications of Ionic Liquids as Solvents: Enabling Sustainable Technologies For New Advanced Materials," Presented by R. D. Rogers at the University of Texas Arlington, Arlington, TX on 11/10/06.
159. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers at the University of Toledo, Toledo, OH on 1/17/07.
160. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers to Lyondell Chemical Co., Newton Square, PA on 2/13/07.
161. "The Past, Present, and Future of Ionic Liquids: From Designer Solvents to Advanced New Materials," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 9/10/07.
162. "Applications and The Third Evolution of Ionic Liquids: Physical to Chemical to Biological Properties," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 9/10/07.
163. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Technische Universiteit Eindhoven, Eindhoven, The Netherlands on 9/24/07.
164. "Ionic Liquids as Transformational Technologies," Presented by R. D. Rogers to Nippon Chemical Industrial Company, Tokyo, Japan, on 4/21/08.
165. "The Evolution of Ionic Liquids – From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers at the Danish Technical University (2008), Copenhagen, Denmark, on 6/16/08.
166. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Brookhaven National Laboratory, Upton, NY on 7/14/08.
167. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Abbott, Waukegan, IL on 8/14/08.
168. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to the University of Alabama at Birmingham, Birmingham, AL on 9/8/08.
169. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to AMGEN, South San Francisco, CA on 9/10/08.
170. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples for the Fragrance Industries," Presented by R. D. Rogers to Givaudan, Ashford, United Kingdom on 10/01/08.
171. "Green Chemistry and the Industrial Revolution," Presented by R. D. Rogers to the Royal Institution of Great Britain as an invited Friday Evening Discourse, London, United Kingdom on 11/14/08. (Invited)
172. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to The U.S. Army Research Office/U.S. Army Research Laboratory Ionic Liquids in Electroactive Devices MURI Annual Review, Philadelphia, PA on 12/16/08. (Invited Guest Speaker)
173. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Rutgers University, New Brunswick, NJ on 1/20/09. (Invited Colloquium Speaker)
174. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Abbott, Waukegan, IL on 2/20/09. (Invited Abbott Seminar Series)
175. "Ionic Liquids and the Green Industrial Revolution," Presented by R. D. Rogers to The Queen's University of Belfast, Belfast, United Kingdom on 3/2/09. (Inaugural Lecture)
176. "The 'Ionic Liquid Talk'," Webinar presented by R. D. Rogers to the American Chemical Society Publications Division from Belfast, Northern Ireland to Washington, DC on 4/24/09.
177. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 8/22/09.
178. "From Green Chemistry to a 'Green' Industrial Revolution: Are Ionic Liquids Pointing the Way?" Presented by R. D. Rogers to the Foster Colloquium University of Buffalo, Buffalo, NY on 10/30/09. (Invited Colloquium Speaker)
179. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to Tuskegee Institute, Tuskegee, AL, on 11/30/09.
180. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to The Westerveld Company, Tuscaloosa, AL, on 12/16/09.
181. "Ionic Liquid Cracking of Biomass: Beyond Cellulose to Biorefineries," Presented by R. D. Rogers to The University of Colorado, Boulder, CO, on 1/12/10.
182. "Ionic Liquid Advances and Retreats as Solvents and Materials," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 1/27/10.
183. "Ionic Liquids with or without Biological Activity for use in Personal Care Products," Presented by R. D. Rogers to Colgate-Palmolive, Piscataway, NJ on 1/27/10.



184. "Crystallization Process in Ionic Liquids," Presented by R. D. Rogers to Nippon Chemical Industrial, Tokyo, Japan on 2/8/10.
185. "Ionic Liquids Laboratory to Commercialization," Presented by R. D. Rogers to the Institute of Process Engineering, Chinese Academy of Sciences, Beijing, China on 04/28/10.
186. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to the Massachusetts Institute of Technology, Cambridge, MA on 06/10/10.
187. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to the Arch Chemicals Inc., Innovation Committee, Atlanta, GA on 09/15/10.
188. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Joint Bioenergy Research Institute, Lawrence Berkeley National Laboratory, Emeryville, CA on 10/05/10.
189. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Lanzhou University, Lanzhou, China on 10/28/10.
190. "Ionic Liquids: Laboratory to Commercialization," Presented by R. D. Rogers to The Chinese Academy of Sciences Institute of Chemical Physics, Lanzhou, China on 10/29/10.
191. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Jiaotong University, Xi'an, China on 11/01/10.
192. "Ionic Liquids: Laboratory to Commercialization Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Northwest University, Xi'an, China on 11/01/10.
193. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to Monsanto, St. Louis, MO on 11/11/10.
194. "Ionic Liquids: Introduction, Brief History, Evolution, and Potential Applicability to Your Projects," Presented by R. D. Rogers to Frontier Scientific and Echelon, Logan, UT on 12/09/10.
195. "Vignettes of Ionic Liquids Strategies in the Rogers Group," Presented by R. D. Rogers to Tokyo University of Agricultural and Technology, Tokyo, Japan on 1/13/11.
196. "Vignettes of Ionic Liquids Strategies in the Rogers Group," Presented by R. D. Rogers to Nippon Chemical Industrial Company, Tokyo, Japan, on 1/14/11.
197. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to University of Guelph on 1/24/11.
198. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Tennessee Technological University, Cookeville, TN on 2/8/11.
199. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Oak Ridge National Laboratory, Oak Ridge, TN on 2/9/11.
200. "An Editor's Perspective on Contentious Issues Arising During the Peer Review Process," Presented by R. D. Rogers to the National Chemical Laboratory, Pune, India, on 6/24/11.
201. "An Editor's Perspective on Contentious Issues Arising During the Peer Review Process," Presented by R. D. Rogers to the Indian Institute of Science, Bangalore, India, on 6/27/11.
202. "Ionic Liquids: Unique Environments for f-Element Chemistry," Presented by R. D. Rogers to the Changchung Institute of Applied Chemistry, Chinese Academy of Sciences, Changchung, China on 07/26/11.
203. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Merck, Summit, NJ on 09/09/11.
204. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to Loyola University, New Orleans, LA on 11/21/11.
205. "The Evolution of Ionic Liquids - From Solvents and Separations to Advanced Materials and Pharmaceuticals: Examples from the Ionic Liquid Cookbook," Presented by R. D. Rogers to Ruhr Universität Bochum, Bochum, Germany on 12/01/11.
206. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Fraunhofer Institute for Wood Research Wilhelm Klauditz Institute, Braunschweig, Germany on 12/05/11.
207. "Ionic Liquids: Solvents and Materials," Presented by R. D. Rogers to Reliance Industries Limited, Mumbai, India on 03/09/12.
208. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Central Salt & Marine Chemicals Research Institute, Bhavnagar, Gujarat, India on 03/15/12.
209. "Ionic Liquids in Support of the Pharmaceutical Industries," Presented by R. D. Rogers to Novartis, Basel, Switzerland on 05/07/12.
210. "Green Chemistry, Technology, & Innovation (on the road to 'Shrimp Bandages')," Presented by R. D. Rogers to the Mobile Kiwanis Club, Mobile, AL on 6/27/12.
211. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the University of Mississippi, Oxford, MS on 11/01/12.

212. "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers to the U.S. Army ERDC Environmental Laboratory, Vicksburg, MS on 11/02/12.
213. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to McGill University, Montreal, Quebec, Canada on 11/06/12.
214. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to The University of Tennessee at Martin, Martin, TN on 02/18/13.
215. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to The University of Aveiro, Aveiro, Portugal on 04/29/13.
216. "A study of Ionic Liquids in the pharmaceutical sector - How can the liquid state help us master the solid state?" Presented by R. D. Rogers to Instituto de Tecnologia Quimica e Biologica (ITQB), Lisbon, Portugal on 04/30/13.
217. "Ionic Liquid Solvents for the Grand Challenge Inherent in a Biorefinery: Extraction and Separation of Lignin, Cellulose, and Hemicellulose," Presented by R. D. Rogers to the Sugar Milling Research Institute, Council for Scientific and Industrial Research Forestry and Forest Products Research Centre, University of KwaZulu-Natal Chemical Engineering Department, and Durban University of Technology, Durban, South Africa on 07/03/13.
218. "A study of Ionic Liquids in the pharmaceutical sector - How can the liquid state help us master the solid state?" Presented by R. D. Rogers to McGill University, Montreal, Quebec, Canada on 08/21/13.
219. "Fine Tuning Double Salt Ionic Liquids and Their Applications in the Pharmaceutical Industry," Presented by R. D. Rogers at Novartis, Basel, Switzerland on 09/11/13.
220. "A study of Ionic Liquids in the pharmaceutical sector" Presented by R. D. Rogers to Nova University, Ft. Lauderdale, FL on 10/11/13.
221. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Cologne, Cologne, Germany, 11/28/13.
222. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Bochum, Bochum, Germany, 11/29/13.
223. "Unique Roles for Ionic Liquids in a Biorefinery: Extraction, Separation, and Processing of Lignin, Cellulose, Hemicellulose, and Chitin" Presented by R. D. Rogers to Mississippi State University, Starkville, MS on 02/14/14.
224. R. D. Rogers, "Liquid Engineering to Crystal Engineering: How Ionic Liquids Can Help Us Master the Pharmaceutical Solid State," Presented by R. D. Rogers to the University of Rostock, Rostock, Germany, 04/07/14.
225. R. D. Rogers, "Liquid Engineering: Ionic Liquids for the Pharmaceutical Sector in Drug Development, Drug Delivery, and as Drugs," Presented by R. D. Rogers to Takeda Millennium, Cambridge, MA, 05/09/14.
226. R. D. Rogers, "Ideality vs. Reality of Green Chemistry in the Development of Advanced Materials from Renewable Polymers," Presented by R. D. Rogers before the North Alabama Section of the American Chemical Society, Huntsville, AL, 09/08/14.
227. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to Iowa State University, Ames, IA on 11/03/14.
228. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to McGill University Macdonald Campus, Montreal, QC Canada on 04/16/15.
229. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to Institut für Technische und Makromolekulare Chemie, RWTH Aachen, Aachen, Germany on 04/30/15.
230. R. D. Rogers, "Sustainability, from Ideas to Implementation: Can Ionic Liquids Help?" Presented by R. D. Rogers to L'Oréal, Aulnay sous Bois, France on 05/11/15.
231. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to the University of Calgary (Department of Chemistry), Calgary, AB, Canada on 07/07/15.
232. R. D. Rogers, "Is 'Sustainability' a new paradigm for the future chemical industry? Cross border perspectives and what we need to train the next generation to face," Presented by R. D. Rogers to Alberta Innovates Technology Futures, Calgary, AB, Canada on 07/09/15.
233. "Utilization of Ionic Liquids in Support of Continuous Pharmaceutical Manufacturing: Fine Tunability of Double Salt Ionic Liquids," Presented by R. D. Rogers at Novartis, Basel, Switzerland on 09/14/15.
234. R. D. Rogers, "Liquid Engineering: Ionic Liquids for the Pharmaceutical Sector in Drug Development, Drug Delivery, and as Drugs," Presented by R. D. Rogers to the Department of Pharmacology and Therapeutics, McGill University, Montreal, QC, Canada on 11/09/15.
235. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers to Concordia University, Montreal, QC, Canada on 11/13/15.
236. R. D. Rogers, "Innovation is the Gateway to the Biomass Biorefinery and Ultimately A sustainable Bio-based Economy," Presented by R. D. Rogers as a Waterloo Institute for Nanotechnology (WIN) Distinguished Lecture to the University of Waterloo, Waterloo, ON, Canada on 11/19/15.

237. R. D. Rogers, "Green Chemistry and Advanced Materials from Renewable Polymers: Education, Research, and Entrepreneurship to Motivate the Next Generation of Scientists," Presented by R. D. Rogers to West Virginia University (Department of Chemical Engineering), Morgantown, WV on 12/04/15.
238. "Before Applications You Need Understanding: Does the Nature of the Bonding in Double Salt Ionic Liquids 'Prove' a Difference Between Ionic Liquids and Molecular Liquids?," Presented by R. D. Rogers to Reliance Industries Limited, Mumbai, India on 01/19/16.
239. "Millions of New Ionic Liquids are Hiding in Plain Sight: Understanding the Nature of the Bonding in Double Salt Ionic Liquids (aka Ionic Liquid Mixtures)," Presented by R. D. Rogers to the PATH Workshop, University of Aveiro, Aveiro, Portugal on 05/09/16.

## F. Theses and Dissertations Directed:

1. M. M. Benning, "Actinide/Crown Ether Chemistry," Ph.D., Northern Illinois University, 1988.
2. L. Nuñez, "Structural, Magnetic, and Superconducting Properties of  $\text{YBa}_2\text{Cu}_{3-x}\text{Fe}_x\text{O}_{7-\delta}$  Single Crystals," Ph.D., Northern Illinois University, 1990.
3. R. F. Henry, "Synthesis and Characterization of Novel Macrocycles and Their Complexes," M. S., Northern Illinois University, 1990.
4. A. N. Rollins, "Controlling the Primary Coordination Sphere: Complexation of the 4-f Elements by Crown Ethers as Models for Potential Extraction Systems," Ph.D., Northern Illinois University, 1993.
5. A. H. Bond, "Heavy Main Group Metal Ions: Structural Chemistry of Polyether Complexes and Aqueous Biphasic Separations," Ph.D., Northern Illinois University, 1995.
6. C. B. Bauer, "Polyether Complexation Chemistry of Hard Metal Ions: Structural Investigation and Partitioning Behavior in Aqueous Biphasic Systems," Ph.D., Northern Illinois University, 1995.
7. J. Zhang, "Polyethylene Glycol (PEG) Chemistry: Partitioning of Chaotropic Ions in PEG-Based Aqueous Biphasic Systems and Structural Investigation of Lanthanide Isothiocyanate/PEG Complexes," Ph.D., Northern Illinois University, 1997.
8. K. S. Granger, non-thesis option, M.S., The University of Alabama, 2000.
9. H. D. Willauer, "Fundamentals of Phase Behavior and Solute Partitioning in ABS and Applications to the Paper Industry," Ph.D., The University of Alabama, 2002.
10. A. E. Visser, "Metal Ion Separations in Aqueous Biphasic Systems and Room Temperature Ionic Liquids," Ph.D., The University of Alabama, 2002. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
11. G. A. Broker, non-thesis option, M.S., The University of Alabama, 2003.
12. S. T. Griffin, "The Development and Applications of ABEC Resins," Ph.D., The University of Alabama, 2004.
13. M. Dilip, non-thesis option, M.S., The University of Alabama, 2004.
14. M. A. Klingshirn, "Relating Ionic Liquids and Polyethylene Glycols to Green Chemistry, Organometallic Catalysis, and Materials Science," Ph.D., The University of Alabama, 2005.
15. M. B. Turner, "Ionic Liquids in the Life Sciences: Are Ionic Liquids Useful in the Manipulation of Biomolecules?," Ph.D., The University of Alabama, 2005.
16. W. M. Reichert, "The Effects of Cation-Anion Interactions on the Properties of Ionic Liquids," Ph.D., The University of Alabama, 2005.
17. R. P. Swatloski, "Ionic Liquids as Green Solvents: Enabling New Materials and Technologies," Ph.D., The University of Alabama, 2005.
18. G. A. Broker, "Crystal Engineering Studies of some Nitrogen Containing Multifunctional Ligands," Ph.D., The University of Alabama, 2006.
19. V. A. Cocalia, "Separations, Solvation, and Coordination of Actinides in Ionic Liquids," Ph.D., The University of Alabama, 2006.
20. K. E. Gutowski, "Computational Thermodynamic Studies of the Formation and Stability of Ionic Liquids and Actinide-Ligand Complexes," Ph.D., The University of Alabama, 2006. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
21. N. J. Bridges, Ph.D., "Ionic Liquids and Water: An Investigation of Solvation," The University of Alabama, 2007.
22. C. C. Hines, "Ionic Liquids for Crystallization: Echoes of Solvation in the Solid State," M.S., The University of Alabama, 2007 (Recipient of The University of Alabama's Award for Excellence in Research by a Masters Student)
23. M. L. Moody, "A Study of the Influence of Water on Polyethylene Glycol Solutions," Ph.D., The University of Alabama, 2007
24. M. Smiglak, "A Modular "Ionic Liquid" Platform for the Custom Design of Energetic Materials," Ph.D., The University of Alabama, 2007. (Recipient of The University of Alabama Award for Excellence in Research by a Doctoral Student)
25. M. Dilip, "Towards Greener Separations: Role of water in Aqueous Biphasic Systems," Ph.D. The University of Alabama, 2008.
26. W. L. Hough, "Functional Ionic Liquids for Use in Pharmaceutical Applications," Ph.D. The University of Alabama, 2010.
27. N. Sun, "Dissolution and Processing of Cellulosic Materials with Ionic Liquids: Fundamentals and Applications," Ph.D. The University of Alabama, 2010.
28. D. M. Drab, "A Versatile Design Platform for Multi-Heterocyclic Ionic Liquid Synthesis," Ph.D. The University of Alabama, 2011.
29. M. L. Maxim, "Ionic Liquids Platform for Biomass Dissolution Leading to Advanced Biocomposite Materials," Ph.D. The University of Alabama, 2012.
30. P. A. Beasley, "Understanding the Effects of Molecular Additions in Energetic Ionic Liquids," M.S. The University of Alabama, 2013.
31. P. M. McCrary, "Controlling the Properties of Energetic Ionic Liquids by Stabilizing Reactive Nanomaterials," Ph.D. The University of Alabama, 2014.
32. Kelley, S. P., "Isolation of Soft Donor Complexes of d- and f-Block Metals Using Ionic Liquids," Ph.D. The University of Alabama, 2015.