Preface

The 17th International Symposium on Molten Salts and Ionic Liquids will be held October 10 – October 15, 2010 in Las Vegas, NV as part of the 218th Meeting of the Electrochemical Society. As with previous years, its success will be due to strong international participation, with researchers and scientists from 17 countries presenting their contributions to the field.

The Molten Salts and Ionic Liquids Symposium would not exist without the financial support it receives from both internal and external sources. The Physical and Analytical Electrochemistry, Energy Technology, and Electrodeposition Divisions of the Electrochemical Society provided much of the funding to host this symposium. In addition, the U.S. Air Force Office of Scientific Research and the U.S. Army Research office provided much needed funds to support the travel and registration for international and young investigators presenting at the meeting. The co-organizers for this symposium were Paul C. Trulove, United States Naval Academy, Hugh C. De Long, Air Force Office of Scientific Research, Robert A. Mantz, Army Research Office, Minoru Mizuhata, Kobe University, Wesley A. Henderson, North Carolina State University, and Douglas M. Fox, American University.

The topics covered at this symposium continue to be a well distributed mix between fundamental property exploration and unique applications of molten salts and ionic liquids. Over 60 oral and 20 poster presentations will be given during the symposium on topics ranging from gas adsorption and phase behavior, solvent behavior of organic and biopolymer solutions, new ionic liquids and novel materials from ionic liquids, electrodeposition of metals, power and energy applications, and electrode processes. The 2010 recipient of the Max Bredig Award is C. Austen Angell of the Arizona State University, USA. In his award address, he will discuss the ionic liquid structure and its applications as an electrochemical solvent.

Douglas M. Fox
American University
July 24, 2010
C. Austen Angell is the 2010 recipient of the Max Bredig Award in Molten Salt Chemistry. Prof. Angell holds B.Sc. and M.Sc. degrees from the University of Melbourne, and a Ph.D. degree from London University, Imperial College of Science where he was a Stanley Elmore Fellow and also the winner of the Armstrong Medal for research excellence. He has held positions at the University of Melbourne, Argonne National Laboratory, and Purdue University before moving to Arizona State University in 1989, where he presently holds the position of Regents' Professor of Chemistry. Prof. Austen has made many significant contributions over his distinguished career as evidenced by his almost 500 publications and his awards, including: MRS Turnbull Lecture (2006), ACS Joel Henry Hildebrand award for the study of liquids (2004), the Neville Mott award of the Journal of Non-Crystalline Solids (1992), and the Morey award of the American Ceramic Society (1990). More importantly, Prof. Angell has been one of the pivotal researchers in the molten salt and ionic liquid community for the past 50 years, and he has led the way in the development of the fundamental science of these fascinating and important systems dating back to his very first publication in 1958. Professor Angell has consistently been the genesis for both the development of new classes of ionic liquids and innovative new ideas about how to understand them, and he has been instrumental in drawing upon concepts from other scientific communities and applying them to molten salts and ionic liquids to help explain their unique properties.
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The Electrochemical Society (ECS) is an international, nonprofit, scientific, educational organization founded for the advancement of the theory and practice of electrochemistry, electrothermics, electronics, and allied subjects. The Society was founded in Philadelphia in 1902 and incorporated in 1930. There are currently over 7,000 scientists and engineers from more than 70 countries who hold individual membership; the Society is also supported by more than 100 corporations through Corporate Memberships.

The technical activities of the Society are carried on by Divisions. Sections of the Society have been organized in a number of cities and regions. Major international meetings of the Society are held in the spring and fall of each year. At these meetings, the Divisions and Groups hold general sessions and sponsor symposia on specialized subjects.

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