

Mark R. Antonio

Argonne National Laboratory
Chemical Sciences and Engineering Division
9700 South Cass Avenue, Building 200
Argonne, IL 60439-4837
Phone: 630/252-9267
Fax: 630/252-4225
E-mail: mantonio@anl.gov

Professional Experience

- **1993-Present.** Inorganic chemistry, materials syntheses—including actinide/lanthanide-element reactions and complexants for separations, synchrotron radiation research, electroanalytical science, molecular spectroscopy, and *in situ* techniques for the characterization of solids and solutions of relevance to solvent extraction and ion exchange.
- **1982-1992.** Project Leader, Analytical Sciences Laboratory, British Petroleum (BP) Research, Cleveland, OH. Developed advanced analytical capabilities and equipment for the solution of commercially sensitive problems in catalysis, facilitated-transport separations, and oil production resulting in significant cost-savings and improvements in procedures.

Education

- Ph.D. Inorganic Chemistry, Michigan State University, East Lansing, MI, 1983
- M.S. Physical Chemistry, Fairleigh Dickinson University, Madison, NJ, 1978
- B.S. Chemistry, Worcester Polytechnic Institute, Worcester, MA, 1975

Career Activities & Highlights

- Member, Advanced Photon Source Proposal Review Panel—Spectroscopy, 2006–2009
- Adjunct Professor, Department of Chemistry, Lewis University, Romeoville IL, 2008–present
- Co-organizer, Symposium JJ “Actinides—Basic Science, Applications, and Technology”, Materials Research Society Meeting, Boston, MA, 28 November–2 December 2005
- Co-organizer, Symposium 177 “Synchrotron Radiation Research in the Pacific Rim and Emerging Techniques and Applications”, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, 15–20 December 2005
- Member, DOE/BES Review Panel of Chemical Sciences Research Programs at Lawrence Berkeley National Laboratory, 8-11 March 2005
- Invited participant, DOE/BESAC-Sponsored Catalysis/Nanoscience Planning Workshop, Gaithersburg, MD, 14-16 May 2002
- Elected, Advanced Photon Source Users Organization Steering Committee, ANL, 1998–2001

- Co-organizer, Symposium on “Chemical Applications of Synchrotron Radiation”, International Chemical Congress of Pacific Basin Societies, Honolulu, HI, 14–19 December 2000
- Adjunct Professor, Department of Materials Science and Engineering, Case Western Reserve University, Cleveland OH, 1994–2001
- Member, National Synchrotron Light Source Proposal Study Panel–Spectroscopy, 1993–1995
- Member, American Chemical Society (34 years); Royal Society of Chemistry (26 years); American Crystallographic Association (19 years)

In the News

- “Separating Radioactive Materials” **Chemical Technology**, Issue 11, 5 October 2006
- “In the EC Literature” **Current Separations** Issue 21(1), January 2005, 27
- “Workshop on Advancing Actinide Science” **Synchrotron Radiation News** Sept/Oct 2004, 11
- “Workshop on *In Situ* Chemical Processes...” **Synchrotron Radiation News** Sept/Oct 2003, 27
- “Synchrotron Radiation Shines” **Chem. Eng. News** 15 January 2001, 44
- “22nd Annual SSRL Users’ Meeting” **Synchrotron Radiation News** January/February 1996, 11

Publications & Patents

- Publications: 102, including 4 cover articles–
 - Inside Cover **Angew. Chem., Int. Ed.** Issue 48/33, 3 August 2009
 - Cover Article **Dalton Trans.** Issue 38, 14 October 2006
 - Cover Article **Angew. Chem., Int. Ed.** Issue 44/14, 2 April 2005
 - Cover Article **Eur. J. Inorg. Chem.** Issue 16, 18 August 2003
- Co-editor of 1 book
 - Actinides 2005—Basic Science, Applications and Technology, Materials Research Society: Warrendale, PA, Vol. 893, 2006
- BP Technical Reports: 24