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Position

Research Professor
Center for Biomolecular Sciences and the
Department of Medicinal Chemistry and Pharmacognosy
Center for Structural Biology
Center for Clinical and Translational Science
University of Illinois at Chicago

Background

Ph.D., Physical Chemistry, University of Washington, 1975
Department of Chemistry and Chemical Engineering, Caltech, 1981-1986
Departments of Biochemistry and Chemistry, University of Alberta, 1986-1991
Department of Chemistry, University of California, Berkeley, 1995-2001
Lawrence Berkeley National Laboratory, 1996-2001
Molecular Biology, The Scripps Research Institute, 1998-2001
Center for Biomolecular Sciences, UIC, 2001-present

Honors

Standard Oil Company of California Research Fellow, 1975-1979
Myron A. Bantrell Research Fellow in Chemical Catalysis, Caltech, 1981-1986
R&D 100 Award for High-throughput Nanovolume Crystallization, LBNL, 2002

Relevant Activities

Structural Biology Review Panel, NASA, 1098-2003
U. S. National Committee for Crystallography, 2006-2011
NSF Workshop, CyberEnabled Instrumentation in Chemistry, 2007-2009
Annual Session & Local Chair, Treasurer, American Crystallographic Association, 1993-2010
Session Co-Chair, International Union of Crystallography Congress, 2008-2014
Co-Editor, *Acta Crystallographica: Structural Chemistry*, 2012-2018

Interests

Structure and function of biological molecules
Structure-based drug discovery, including natural product library screening and crystallization
Development of new X-ray diffraction methods: hardware, and software
Applications of synchrotron radiation in structure determination and spectroscopy

Goals Narrative

I am a protein and small molecule crystallographer, and have used several of the experimental stations at the APS as well as at other synchrotron facilities. The APS is a world-class facility hosting innovative projects with state-of-the-art resources. APS user input, coupled with long-term strategies for the adoption of new improvements and instrumentation, will keep the APS at the forefront of national and international scientific research. In addition, Chicago area schools, from middle and high schools to our colleges and universities, should tap the APS as a regional resource to foster greater interest in the STEM areas of research and inquiry. I look forward to working with the APS user community and the APS technical staff and management.