Rosetta Briegel Barton Lecture

CHEMISTRY AND BIOCHEMISTRY DEPARTMENT, THE UNIVERSITY OF OKLAHOMA NORMAN, OK 73019-3051 (405) 325-4811

Is Pleased To Announce a Seminar
Presented By

Dr. Todd O. Yeates
Professor, Department of Chemistry and Biochemistry
University of California, Los Angeles

“Giant Symmetric Protein Assemblies: In Nature and by Design”

Friday, February 26, 2016
At 3:15 pm
National Weather Center
David L. Boren Auditorium
Room 1313

Biography: Dr. Yeates earned his Ph.D. degree from the University of California at Los Angeles with Dr. Douglas Rees, where he was part of a team that determined the crystal structure of the bacterial photosynthetic reaction center. He then moved to The Scripps Research Institute for his postdoctoral studies with Dr. James Hogle where he determined the structure of poliovirus mutants. Dr. Yeates returned to UCLA in 1990 as an Assistant Professor in the Department of Chemistry and Biochemistry, where he is currently a full Professor. His work is interdisciplinary combining molecular biology, computational biology, and mathematics to focus on macromolecular structure and computational genomics. Some of his major research findings include: (i) an explanation for why proteins crystallize in certain favored arrangements; (ii) the development of new equations for detecting disorder in X-ray diffraction data from protein crystals; (iii) development of comparative genomics methods; (iv) development of designed protein cages or ‘nanohedra’; and (v) elucidation of the structure of the carboxysome shell and the shells of other bacterial microcompartments, which serves as primitive metabolic organelles inside many bacterial cells. Dr. Yeates is a member of the Molecular Biology Institute, the California Nanosystems Institute, and the UCLA-DOE Institute of Genomics and Proteomics. He has published approximately 170 research papers. He has received many honors including an NIH National Research Service Award, NSF Presidential Young Investigator award, Sidhu Award from the Pittsburgh Diffraction Society for his outstanding contribution to the crystallography field, McCoy Award for Excellence in Research from UCLA, Hansen-Dow Award for Excellence in Teaching from UCLA, and has been elected as a Fellow of the American Association for the Advancement of Science. Among his many service activities he has served as the mentor for the Cal State LA Bioinformatics Institute, DOE Genomes to Life Program, Scientific Advisory Board member for the Joint Center for Structural Genomics, Director of the UCLA X-ray Core Facility, and editorial member for the journals Protein Science and Protein Engineering, Design, and Selection. He has served on several NIH, NSF, and DOE grant review panels. For more information see his webpage at http://yeateslab.mbi.ucla.edu/?page_id=19

Refreshments will be served at 3:00 pm
Reminder ~ wear your ID

Please join us for a reception at 4:30 pm in the first floor atrium of SLSRC