

2002/2003 SSRL Users' Organization Executive Committee (SSRLUO-EC) Ballot

The SSRL Users' Organization Executive Committee represents the scientific user community to the SSRL administration, the SLAC Scientific Policy Committee and the DOE in matters of operation, policy and improvements. Members are elected by the SSRL user community via majority vote and serve a two-year term.

Continuing SSRLUO-EC Members for 2002/2003

	Name	Institution	Field	Institution Type	Office
	Uwe Bergmann	LBL	Materials/Chemistry	Gov't Lab	Chair
	Corwin Booth	LBL	Materials/Chemistry	Gov't. Lab	Ex-Officio
*	Benjamin Bostick	Stanford University	Environmental/Geosciences	University	
	Jane DeWitt	Calif. State Univ.	Structural Molecular Biology	University	
	Erik Nelson	LLNL	Materials/Chemistry	Gov't Lab.	
	Nicholas Pingitore	University of Texas	Environmental/Geosciences	University	
	Dave Stout	Scripps Institute	Macromolecular Crystallography	Institution	

* graduate student

Slate of Nominees

Vote for:

1 materials/chemistry candidate,
1 structural molecular biology candidate,
2 macromolecular crystallography candidates,
1 LCLS candidate,

and **1 graduate student (any discipline)**

*** (brief description of candidates provided below) ***

	Name	Institution	Field	Institution Type	Vote with "X"
	Juana Acrivos	California State Univ.	Materials/Chemistry	University	
	Joy Andrews	California State Univ.	Materials/Chemistry	University	
	Alex Bell	Univ. of California	Materials/Chemistry	University	
	Anneli Munkholm	Lumileds Lighting	Materials/Chemistry	Company	
	Martina Ralle	Oregon Graduate Inst.	Structural Molecular Biology	Institution	
	Timothy Stemmler	Wayne State University	Structural Molecular Biology	University	
	Richard Brennan	OHSU	Macromolecular Crystallography	University	
	Andrew Fisher	Univ. of California	Macromolecular Crystallography	University	
	Robert Liddington	Burnham Institute	Macromolecular Crystallography	Institution	
	Joseph Noel	Salk Institute	Macromolecular Crystallography	Institution	
	Richard Lee	LLNL	LCLS	Gov. Lab	
*	Deanne Jackson Rudd	Stanford University	Materials/Chemistry	University	

* Graduate Student

PLEASE RETURN BALLOT BY 12 noon on OCTOBER 07, 2002 TO:

Cathy Knotts, SSRL User Research Administration

Fax: (650) 926-3600

Email: knotts@slac.stanford.edu

Materials/Chemistry

Juana (Jennie) Acrivos has done experiments at SSRL since 1978. She is a chemist at SJSU (Professor). Her students' first work at SSRL (Alan Robertson and Kevin Hathaway) showed how metal (Rb and Ba) in ammonia solutions change valence from 0 (in metallic solutions) to ionic values as the dilution is increased. The dynamics of intercalation chemistry was investigated in the '80s for TaS₂ exposed to N₂H₄ in the beam (John Reynolds and Stuart S P Parkin). Battery action was revealed by investigating the Se edge shifts in (C(graphite)|C_x(H₂SeO₄)|C_xN₂H₄) (Adrienne Fishgrund), The late '90s revealed the dynamics of phase transitions in superconducting cuprates near the BaL₃- edge. Thaddeus Norman uncovered phase transition phenomena in the NiS₂-xSex system by Se and Ni XAS. Now together with Maria Angeles Navacerrada (Complutense University in Madrid) she has uncovered novel periodic lattice distortions in nano-scale films of YBCO at room temperature by XRD. She works with both undergraduate and graduate students and is present at all times.

Joy Andrews, Assoc. Prof. of Chemistry at CSU Hayward, has had 10 years' experience at SSRL, first with UCB from 1992-1996, and continuing with research in the remediation of heavy metals in the environment with plants and novel materials. Her work on safety and other committees at LBNL and CSUH will inspire her to help shape the professional and innovative environment at SSRL.

Alexis T. Bell is Professor, Department of Chemical Engineering, University of California, Berkeley (1967-present). His research is on the relationships between the local composition and structures of catalytically active centers and the activity and selectivity of these centers. He uses the facilities at SSRL to obtain EXAFS and XANES data to identify the local structure of metal cations exchanged into zeolites and supported metal oxo units. Quantum chemical calculations of proposed structures are carried out and these are used to produce simulated radial structure functions for comparison with those obtained from experimental data.

Anneli Munkholm is a senior scientist at Lumileds Lighting. Her research interests include surface x-ray scattering, real-time x-ray studies of crystal growth, and III-V materials. Anneli was a graduate student at SSRL from '93 to '97. She was a postdoc and held a staff position in the Materials and Chemistry Divisions at Argonne National Laboratory, where she worked at the APS and was involved in a wide variety of synchrotron experiments incl. GIXS, XSW, ASAXS and time-resolved EXAFS.

Structural Molecular Biology

Martina Ralle is a research scientist at OHSU in Oregon. Her research involves XAS spectroscopy as a probe for metal binding in proteins involved in copper homeostasis in humans. She has been a general user since 1994 and comes to SSRL 2-3 times a year to measure samples and to swim with the Stanford masters.

Tim Stemmler is an assistant professor in the Department of Biochemistry and Molecular Biology at Wayne State University. His research is directed at characterizing the structure/function relationship of a series of iron binding proteins that help regulate mitochondrial iron homeostasis and cellular respiration.

Macromolecular Crystallography

Richard Brennan is the Richard T. Jones Professor of Structural Biology in the Department of Biochemistry and Molecular Biology at the Oregon Health & Science University. His research focusses on structure-function studies on (1) protein-nucleic acid interaction, (2) multidrug recognition and binding by both cytosolic and membrane bound proteins and (3) enzymes involved in nucleobase salvage. Dick and his lab members have used SSRL for its intensity data collection and MAD experiments exclusively over the past several years.

Andrew J. Fisher is an associate professor of chemistry and molecular & cellular biology at University of California-Davis. His research focuses on biological macromolecular structure-function relationships in enzymes involved in sulfate activation/assimilation and viral proteins that suppress apoptosis. His research has required extensive use of SSRL beam lines over the past eight years and has been a general user of synchrotron radiation sources since the late 80's.

Bob Liddington is a professor at the Burnham Institute in La Jolla. He has two major areas of interest in structural biology: cell adhesion and migration (especially the structural basis of integrin-mediated signaling pathways), and bacterial virulence factors (especially how they affect host signaling pathways). This research has made extensive use of SSRL beam lines.

Joseph P. Noel, Ph.D. is a professor in the structural biology laboratory at the Salk Institute and the director of a new initiative in Chemistry, Proteomics, and Metabolism. Joe is making use of structural biology, biochemistry, and chemistry to achieve a thorough understanding of proteins affecting cell growth and cell division. These studies provide a chemical view of how the cell controls when and how it grows and divides. In addition, it provides important information about how cancer cells have lost the ability to control these processes. In all plants, multi-enzyme complexes form intricate metabolic grids to synthesize small, structurally complex secondary metabolites. These chemicals perform wide-ranging biochemical, physiological and ecological functions in plants. Joe's group is deciphering the structure of these enzymes and their complexes. The goal of his research is to use the three-dimensional shapes of these enzymes determined in his laboratory as a scaffold for re-engineering changes into these enzymes. These alterations then give rise to the synthesis of new chemical agents in a controlled laboratory setting. In addition, by integrating this structural knowledge with biochemistry, sequence information, and metabolomics, they are gaining a more complete understanding of the evolutionary history of secondary metabolism in plant systems.

LCLS

Richard Lee is a Senior Scientist in the Physics and Advanced Technologies Directorate at Lawrence Livermore National Laboratory responsible for developing scientific efforts in high and moderate energy density science. He has been a member of the LCLS Science Advisory Committee since its inception and was the team leader for the Plasma and Warm Dense Matter experiment that was one of the five 'First Experiments for LCLS'. He is currently actively involved in both experiment and theory related to ultra fast x-ray scattering studies of laser-excited solids.

Graduate Students

Deanne Jackson Rudd is currently a graduate student in the Department of Chemistry at Stanford University. Her research at SSRL involves using XAS K-edges and EXAFS to probe the electronic and geometric structure of metalloproteins and protein model complexes.