

## Appendix 2

### 1999-2000 Presentations by XFD and UPD Staff

- Alp, E.E., International Conference on Applications of Mossbauer Effect, Aug. 29- Sept. 3, 1999, Garmisch-Partenkirchen, Germany
- Alp, E.E., Scientific Program at SESAME: A Synchrotron Radiation Source for the Middle East, Aug. 21, 1999, BESSY, Berlin, Germany
- Alp, E.E., Inelastic X-Ray Scattering Workshop, Jan 21, 2000, Argonne National Laboratory, Argonne, IL
- Alp, E.E., Workshop on Structural Biology at SESAME, April 17-20, 2000, Athens, Greece
- Alp, E.E., Festschrift in honor of Dr. Sunil Sinha, May 2, 2000, Argonne, Illinois
- Alp, E.E., Workshop on Experiments at New Generation Synchrotron Machines, May 18, 2000, Leuven, Belgium
- Alp, E.E., Workshop on Surface and Thin Films Studied by Synchrotron Radiation, May 19, 2000, Leuven, Belgium
- Alp, E.E., Euro-School on Dynamics of New Materials, 28-Aug. 28 - Sept. 8, 2000, Warnemunde, Germany
- Alp, E.E., Festcolloquium to honor Prof. E. Gerda, University of Hamburg, Sept. 9, 2000, Hamburg, Germany
- Alp, E.E., Workshop on Materials Science Beamlines at SESAME, Sept. 21-22, 2000, Ankara, Turkey
- Alp, E.E., Energy Recovery Linac Workshop, Dec. 2-3, 2000, Cornell University, Ithaca, NY
- Chu, Y., "Surface X-ray Scattering Studies of Conducting Ruthenium Oxide under Electrochemical Control," Sixth International Conference on Surface X-ray and Neutron Scattering, Sept. 1999, Noordwijkerhout, The Netherlands
- Chu, Y., "Novel Diffraction Technique for Measuring Strain," SRI-CAT Annual Meeting, Oct. 2000, APS, Argonne National Laboratory, Argonne, IL
- DeCarlo, F., "The Message Passing Interface (MPI) Standard: A Tool for X-ray Tomography Reconstruction," SRI-CAT Meeting, May 2000, APS, Argonne National Laboratory, Argonne, IL

- DeCarlo, F., "X-ray Tomography at 2-BM," SRI-CAT Annual Meeting, Oct. 2000, APS, Argonne National Laboratory, Argonne, IL
- DeCarlo, F., "Quasi-Real-Time Reconstruction X-ray Tomography at 2BM," PRT Organizing Meeting for the ALS Tomography Project, Dec. 2000, Lawrence Berkeley National Laboratory
- Dejus, R.J., "A Linear Integral-Equation-Based Computer Code for Self-Amplified Spontaneous Emission Calculations of Free-Electron Lasers," FEL99, Aug. 23-28, 1999, Hamburg, Germany
- Dejus, R.J., "Calculations of the Self-Amplified Spontaneous Emission Performance of a Free-Electron Laser," PAC99, Mar. 29 – Apr. 2, 1999, New York City, NY
- Freeland, J., "Understanding Correlations between Chemical and Magnetic Interfacial Roughness," X-ray Dichroism Workshop, Aug. 1999, Argonne, IL
- Freeland, J., "An Undulator Beamline for High-Resolution Intermediate-Energy (0.5 - 3 keV) Spectroscopy at the Advanced Photon Source," Synchrotron Radiation Instrumentation Conference, Oct. 1999, Stanford, CA
- Freeland, J., "Exploring Magnetic Structures with Polarized X-ray Reflectivity," Spallation Neutron Source- Reflectivity Workshop, May 2000, Argonne, IL
- Frigo, S., "Two and Three Dimensional Imaging of Buried Integrated Circuit Components," Auburn University, March 4, 1999, Auburn, AL
- Frigo, S., "Neutral Desorption Products Produced by Molecular Core Excitation," APS Annual Meeting, March 21, 1999, Atlanta, GA
- Frigo, S., "Two and Three Dimensional Imaging of Buried Integrated Circuit Components," APS Annual Meeting, March 23, 1999, Atlanta, GA
- Frigo, S., "Two and Three Dimensional Imaging of Buried Integrated Circuit Components," NSLS Users' Meeting, May 24, 1999, Brookhaven, NY
- Frigo, S., "Overview of Integrated Circuit Imaging at Advanced Photon Source Beamline 2-ID-B," SRI 99 Conference, Oct. 11, 1999, Stanford, CA
- Frigo, S., "Overview of Integrated Circuit Imaging at Advanced Photon Source Beamline 2-ID-B," SRI-CAT User's Meeting, Oct. 26, 1999, APS, Argonne National Laboratory, Argonne, IL
- Gluskin, E., "Recent Experiment Results at APS," Oct. 27-31, 1999, Brunnen, Switzerland

- Gluskin, E., "Developments of Undulator Lines for 4<sup>th</sup> Generation SR Sources," April 7-13, 2000, Osaka, Japan
- Gluskin, E., "Superconducting Undulator Prospects and Challenges for SASE FEL," July 8-12, 2000, Karlsruhe, Germany
- Gluskin, E., "Predicted Performance of the LCLS X-Ray Diagnostics," Sept. 9-16, 2000, Arcadisso, Italy
- Gluskin, E., "APS Experience with Long Undulator Lines," Nov. 5-15, 2000, Toyko, Japan
- Lai, B., "Fluorescence Microanalysis Using a Zone-Plate-Based Microprobe," Workshop on APS Innovations in Instrumentation, Tenth Users Meeting for the Advanced Photon Source, May 2000, APS, Argonne National Laboratory, Argonne, IL
- Lang, J., "Temperature Dependence of Rare Earth L Edge Dichroism," XAFS 99- Workshop on Dichroism, Aug. 1999, Argonne, IL
- Lang, J., "X-rays and Magnetism," Bradley University Colloquium, Sept. 1999, Bradley University,
- Makarov, O.A., "A New Gap Separation Mechanism for APS Insertion Devices," SRI99, Oct. 13-15, 1999, Stanford, CA
- Maser, J., "X-ray Fluorescence Analysis Using Microprobes with Zone Plate Optics," Workshop on APS Innovations in Instrumentation, Tenth Users Meeting for the Advanced Photon Source, May 2000, APS, Argonne National Laboratory, Argonne, IL
- McNulty, I., "Structure Determination by Flash X-ray Holography," BESAC Panel on Novel Coherent Light Sources, January 1999, DOE Headquarters, Gaithersburg, MD
- McNulty, I., "X-ray Holography at the Advanced Photon Source," SPIE Chicago Regional Chapter Meeting, April 1999, Chicago, IL
- McNulty, I., "Flash X-ray Holography," ICFA Advanced Beam Dynamics Workshop on Future Light Sources, April 1999, APS, Argonne National Laboratory, Argonne, IL
- McNulty, I., "Realtime X-ray Microtomography," Advanced Photon Source Technical Working Group Meeting, April 1999, APS, Argonne National Laboratory, Argonne, IL
- McNulty, I., "The 1-4 keV X-ray Microscopy and Coherence Program at APS Beamline 2-ID-B," National Synchrotron Light Source Annual Users Meeting, May 1999, NSLS, Brookhaven National Laboratory, Upton, NY

- McNulty, I., "Nanotomography with Intermediate Energy X-rays at the APS," Sixth International Conference on X-ray Microscopy, Aug. 1999, University of California at Berkeley, Berkeley, CA
- McNulty, I., "Coherent Imaging with LCLS," Workshop on the Science and Instrumentation for the LCLS, Oct. 1999, SLAC, Stanford, CA
- McNulty, I., "Flash Imaging and Related Issues of Damage," LCLS Scientific Advisory Committee Workshop, March 2000, SLAC, Stanford, CA
- McNulty, I., "Flash X-ray Holography: Prospects for XFELs," APS Beams and Applications Seminar, Nov. 2000, APS, Argonne National Laboratory, Argonne, IL
- McNulty, I., "ID Beam Sharing in Sector 2 of APS," APS Workshop on Multiple Beamlines from a Single Insertion Point, Nov. 2000, APS, Argonne National Laboratory, Argonne, IL
- McNulty, I., "Applications of Soft X-ray Coherent Scattering," Argonne Workshop on X-rays and Nanoscience, Dec. 2000, APS, Argonne National Laboratory, Argonne, IL
- Mills, D.M., "Some Thoughts on Photon Delay Techniques," Workshop on Methods and Instrumentation for an X-FEL, June 26 and 27, 2000, HASYLAB, Hamburg, Germany
- Moog, E.R., "The Undulator Line for the Advanced Photon Source Free-Electron Laser", invited talk presented at CAARI 2000, the 16<sup>th</sup> International Conference on the Application of Accelerators in Research and Industry, Nov. 1-4, 2000, Denton, TX
- Moog, E.R., Presentations on Insertion Device Magnetic Design and Tolerances at two LCLS Technical Advisory Committee Meetings, Feb. 11-12, 2000 and May 19-20, 2000
- Moog, E.R., "Optimization of the Design for the LCLS Undulator Line", FEL2000, Aug. 13-18, 2000, Durham NC.
- Moog, E.R., "APS Insertion Devices", seminar for ANL floor coordinators, Oct. 21, 1999, Argonne National Laboratory. Presentation was videotaped for later re-use with new coordinators.
- Moog, E.R., "The APS FEL Undulator", ICFA 17<sup>th</sup> Advanced Beam Dynamics Workshop on Future Light Sources, April 6-9, 1999, Argonne, IL
- Moog, E.R., "Radiation Measurements of the APS FEL," FEL99, Aug. 23-28, 1999, Hamburg, Germany. (Poster was prepared by Pat Den Hartog and won the award for best poster of the session!)
- Mooney, T., "EPICS and its Role in Data Acquisition and Beamline Control," SRI 99 Meeting, Oct. 14, 1999, Stanford, CA

- Retsch, C., "Effects of Focusing Optics on X-ray Speckle Contrast," SRI-CAT Meeting, Oct. 1999, Argonne National Laboratory, Argonne, IL
- Retsch, C., "Effect of Focusing Optics on X-ray Speckle Contrast," SRI 99 Meeting, Oct. 1999, Stanford, CA
- Shastri, S., "XFEL Event Rates for a Simple Multi-Photon Process: Two-Photon Absorption," Workshop on Nonlinear Optics, Quantum Optics, and Ultrashort Phenomena, July 13-14, 2000, DESY, Hamburg, Germany
- Shastri, S., "Femtosecond X-Ray Dynamical Diffraction - XFEL Implications," SPIE session on X-Ray FEL Optics and Instrumentation, July 30-31, 2000, San Diego, CA
- Shastri, S., "Femtosecond X-Ray Dynamical Diffraction," XFEL Workshop, Oct 12-13, 2000, Argonne National Laboratory
- Shu, D., "Front End and Beamline Instrumentation Development at the APS," Advanced Light Source, Oct. 12, 1999, LBNL, Berkeley, CA
- Shu, D., "Preliminary Test of an Automated Precision Crystal Sample Mounting Mechanism," International Workshop on Bio-Sample Mounting Automation, May 11, 2000, SSRL, Stanford, CA
- Shu, D., "Ultraprecision Motion Control Technique for High-Resolution X-ray Instrumentation," 1st International Workshop on Mechanical Engineering Design of Synchrotron Radiation Equipment and Instrumentation, July 14, 2000, PSI-SLS, Switzerland
- Sinha, S., "Scientific Uses for the X-ray FEL," Jan 18, 1999, Leone Panel Mtg. for BESAC
- Sinha, S., "Charge and Spin Ordering in CMR Materials," University of San Diego Physics Colloquium, Mar 11, 1999, San Diego, CA
- Sinha, S., "Charge and Spin Ordering in CMR Materials," Amer. Phys. Society 1999 March Centennial Mtg., Mar 20-26, 1999, Atlanta, GA
- Sinha, S., "Synchrotron X-ray Studies of Confined Fluids," NATO ASI Mtg., Apr 13, 1999, Geilo, Norway
- Sinha, S., "X-ray and Neutron Scattering Studies of Magnetic Roughness in Thin Films," European Synchrotron Radiation Facility Physics Colloquium, Apr 28, 1999, Grenoble, France
- Sinha, S., "Synchrotron Radiation Studies of Surface Fluctuations and Surface Phase Transition in Liquids," Adriatico Research Conference, Jun 29, 1999, Trieste, Italy
- Sinha, S., "Introduction to X-rays and Neutron Scattering," DOE Summer School, Argonne National Laboratory, July 16-17, 1999, Argonne, IL

Sinha, S., "Synchrotron X-ray Studies of Confined Fluids," Complex Materials Conference, Aug 22-27, 1999, Santa Barbara, CA

Sinha, S., "Spin and Charge Ordering in Layered Manganites," University of Illinois, Chicago Physics Colloquium, Oct 8, 1999, Chicago, IL

Sinha, S., "Spin and Charge Ordering in Layered Manganites." RISO National Laboratory, Oct 19, 1999, Denmark

Sinha, S., "X-ray Studies from Surfaces and Thin Films," Workshop on Off-Specular Scattering, Jan 29-Feb 1, 2000, Abingdon, UK

Sinha, S., "Resonant Magnetic X-ray and Neutron Scattering from Rough Interfaces," 5<sup>th</sup> Int'l Conference on the Physics of X-ray Multilayer Structures, Mar 5-9, 2000, Chamonix Mont-Blanc, France

Sinha, S., "Spin and Charge Ordering in Layered Manganites," University of Minnesota Physics Colloquium, Apr 13, 2000, Minneapolis, MN

Sinha, S., "Synchrotron X-ray Studies of Confined Fluids," LANL Physics Colloquium, Apr 27, 2000, Albuquerque, NM

Sinha, S., "Impact of Neutron Scattering on Science and Society," SNS User Meeting, May 22, 2000, Washington, DC

Sinha, S., "Inelastic X-ray Scattering Lectures," DOE Summer School, Argonne National Laboratory, August 14-16, 2000, Argonne, IL

Sinha, S., "Inelastic X-ray Scattering Lectures," Euro Summer School 2000, Aug 28-30, 2000, Rostock, Germany

Sinha, S., "Resonant Magnetic Scattering from Thin Films," 19<sup>th</sup> European Crystallography Mtg., Aug 31-Sep 2, 2000, Nancy, France

Sinha, S., "X-ray and Neutron Scattering Studies of Magnetic Roughness in Thin Magnetic Films," American Vacuum Society Mtg., Oct 2-6, 2000, Boston, MA

Sinha, S., "Novel Applications of Synchrotron Radiation to Semi-Conductors," A.K. Ramdas Symposium, Purdue University, Oct 21-22, 2000, Lafayette, IN

Sinha, S., "Diffuse Magnetic X-ray Scattering from Magnetic Films," Nano-Magnetism Mtg., Nov 7-12, 2000, Santa Fe, NM

Sinha, S., "Synchrotron X-ray Studies of Molecular Ordering in Confined Liquids," Material Research Society's 2000 Fall Mtg., Nov 26-28, 2000, Boston, MA

- Sinha, S., "What We can learn about Phonons from Inelastic X-ray Scattering," Synchrotron Radiation Research Center, Dec 6, 2000, Hsinchu, Taiwan
- Sinn, H., "Inelastic X-ray Scattering Technique," EuroSchool 2000, Aug. 2000, Rostock, Germany
- Srajer, G., "Investigating Magnetic Materials at the Advanced Photon Source," Workshop on Scientific Opportunities for Neutron Scattering at 30-Tesla, Jan. 14-15, 1999, Los Alamos, NM
- Srajer, G., "Measurements of Magnetic Properties by X-rays," Department of Physics Seminar, March 5, 1999, Tulane University, New Orleans, LA
- Srajer, G., "Magnetic Roughness Measurements at the Advanced Photon Source," Gordon Research Conference on X-ray Physics, July 29, 1999, Plymouth State College, NH
- Srajer, G., "Interfacial Structure and Magnetism in an Fe/Gd Multilayer," Workshop on X-ray Dichroism, Aug. 28, 1999, Argonne National Laboratory, Argonne, IL
- Srajer, G., "Measurements of Magnetic Properties Using X-rays," Department of Physics Seminar, Jan, 21, 2000, Purdue University, Lafayette, IN
- Srajer, G., "Magnetic Domains Mapping," 10<sup>th</sup> APS User Meeting, May 2000, Argonne National Laboratory, Argonne, IL
- Sturhahn, W., "Inelastic Nuclear Scattering Applications," National Conference on Synchrotron Radiation Instrumentation, Oct. 12-15, 1999, Stanford, CA
- Sturhahn, W., "Focusing for and with NRS," Nuclear Resonance Scattering at the X-FEL, April 27-28, 2000, Hamburg, Germany
- Sturhahn, W., "Sensitivity Limits for NRIXS," Nuclear Resonance Scattering at the X-FEL, April 27-28, 2000, Hamburg, Germany
- Sturhahn, W., "Nuclear Transitions with Short Lifetimes," Nuclear Resonance Scattering at the X-FEL, April 27-28, 2000, Hamburg, Germany
- Sturhahn, W., "Interferometry with Nuclear Resonant Radiation," Nuclear Resonance Scattering at the X-FEL, April 27-28, 2000, Hamburg, Germany
- Toellner, T., "Sub-meV Monochromators for X-FEL Sources," Workshop: Nuclear Resonant Scattering with X-FEL Radiation, April 27-28, 2000, HASYLAB, Hamburg, Germany
- Vasserman, I., "Insertion Device Magnetic Measurements," LCLS Technical Advisory Committee Meeting, May 19-20, 2000

Wang, J., "Sprays Studied by Synchrotron X-rays," seminar, Department of Mechanical Engineering, University of Illinois, Jan. 2000, Chicago, IL

Wang, J., "A Quantitative Measurement of Fuel Sprays Using Synchrotron X-rays," seminar, Corporate Research and Development, Robert Bosch GmbH, April 2000, Stuttgart, Germany

Wang, J., "A Quantitative Measurement of Fuel Sprays Using Synchrotron X-rays," seminar, Department of Aerospace and Mechanical Engineering, University of Missouri, April 2000, Columbia, MO

Wang, J., "The Characteristics of an X-ray Synchrotron Liquid Spectrometer," SNS Liquids Reflectometer Workshop, June 2000, Argonne, IL

Wang, Yu., "A Quasi-Realtime X-ray Microtomography System at the Advanced Photon Source," SPIE Annual Technical Symposium, Aug. 1999, San Diego, CA

Wang, Yu., "A Quasi-Realtime X-ray Microtomography System at the APS," Workshop on APS Innovations in Instrumentation, Tenth Users Meeting for the Advanced Photon Source, May 2000, APS, Argonne National Laboratory, Argonne, IL