7TH International Conference on Surface X-ray and Neutron Scattering

23-27 September 2002

Granlibakken Conference Center

Tahoe City, California

Program

Monday 23 September

15:00 – 17:00. Registration

17:00 – 18:00. Welcome reception, Garden Deck

18:00 – 19:30. Dinner, GranHall

Session 1: New Methods – Neutron Spin Echo, Lake-Bay Room (19:30 – 21:00)

19:30 – 19:40. Welcoming remarks

19:40 – 20:20. 1.1. (Invited) *Enhancing neutron reflection experiments using neutron spin echo*
R. Pynn[1], M. Fitzsimmons[1], H. Fritsche[2], J. Major[3], T. Rekveldt[4], [1] Los Alamos National Laboratory, USA, [2] Hahn-Meitner Institute, Germany, [3] Max-Planck-Institut für Metallforschung, Germany, [4] Delft University of Technology, Netherlands (2749)

20:20 – 21:00. 1.2. (Invited) *A combination of neutron resonance spin echo and reflectometry: a new technique for probing surface and interface order*
J. Major[1], C. Anderson[1], H. Dosch[1], G.P. Felcher[2], K. Habicht[3], T. Keller[4], S.G.E. te Velthuis[2], [1] Max-Planck-Institut für Metallforschung, Germany, [2] Argonne National Laboratory, USA, [3] Hahn-Meitner-Institut, Germany, [4] Max-Planck-Institut für Festkörperforschung, Germany (2645)

Tuesday 24 September

7:30 – 8:30. Breakfast, GranHall

Session 2: Magnetic Films – I, Lake-Bay Room (8:30 – 10:10)

8:30 – 9:10. 2.1. (Invited) *Magnetization reversal in exchange-biased films*
M.R. Fitzsimmons[1], C. Leighton[2], J. Nogues[3], A. Hoffmann[4], K. Liu[5], C.F. Majkrzak[6], J.A. Dura[6], J.R. Groves[1], R.W. Springer[1], P.N. Arendt[1], V. Leiner[7], H. Lauter[7], H. Fritzsche[8], I.K. Schuller[9], [1] Los Alamos National Laboratory, USA, [2] University of Minnesota, [3] Institucio Catalana de Recerca i Estudis Avancats and Department de Fisica, [4] Argonne National Laboratory, [5] University of California at Davis, [6] National Institute of Standards and Technology, [7] Institute Laue Langevin, [8] Hahn-Meitner Institute, [9] University of California at San Diego (2588)

9:10 – 9:30. 2.2. *Twisted ground state in antiferromagnetically coupled multilayers*
H. Lauter[1], V. Lauter-Pasyuk[2], B.P. Toperverg[3], L. Romashev[4], M. Milyaev[4], V. Ustinov[4], [1] Institute Laue Langevin, France, [2] TU München c/o ILL, France, [3] FZ Jülich, Germany, [4] IMP, Russia (2666)

9:30 – 10:10. 2.3. (Invited) *Tailoring polarized neutron reflectometry for chiral magnetic structures*
K.V. O'Donovan[1], J.A. Borchers[1], C.F. Majkrzak[1], O. Hellwig[2], E.E. Fullerton[2], [1] National Institute of Standards and Technology, USA, [2] IBM Almaden Research Center, USA (2746)

10:10 – 10:40. Coffee break, Mountain Deck

Session 3: Film Growth and Surface Structure – I, Lake-Bay Room (10:40 – 13:00)

10:40 – 11:20. 3.1. (Invited) *In situ x-ray studies of vapor phase epitaxy of $PbTiO_3$*
G.B. Stephenson[1], D.D. Fong[1], M.V.R. Murty[1], S.K. Streiffer[1], J.A. Eastman[1], O. Auciello[1], P.H. Fuoss[1], C. Thompson[2], A. Munkholm[3], [1] Argonne National Laboratory, USA, [2] Northern Illinois University, USA, [3] Lumileds Lighting, USA (2662)

11:20 – 11:40. 3.2. *The Role of Vacancies in Homoepitaxial Crystal Growth: X-ray Scattering Studies of Noble Metals*
P.F. Miceli[1], C.E. Botez[1], W.C. Elliott[1], K. Li[1], E. Lu[1], E. Conrad[2], P.W. Stephens[3], [1] University of Missouri-Columbia, USA, [2] Georgia Institute of Technology, USA, [3] SUNY, USA (2661)

11:40 – 12:00. 3.3. *Grazing incidence scattering techniques to study nano-structured thin films*
T.H. Metzger, ESRF, France (2586)

12:00 – 10:20. 3.4. *Surface behaviour at the charge density wave transition in $NbSe_2$*
B.M. Murphy[1], J. Stettner[1], M. Traving[1], M. Sprung[1], I. Grotkopp[1], M. Mueller[1], M. Tolan[2], W. Press[3], [1] Christian-Albrechts-University, Kiel, Germany, [2] Univ. Dortmund, Germany, [3] Institut Laue-Langevin, France (2621)

12:20 – 12.40. 3.5. *Diffuse X-ray Scatter from Co/Cu Multilayers: Probing the Kinetics of Surfactant Assisted Growth*
B.L. Peterson, R.L. White, B.M. Clemens, Stanford University, USA (2695)

12:40 – 13:00. 3.6. *Direct determination of the atomic structure of systems with two-dimensional periodicity*
Y. Yacoby, Hebrew University, Israel

13:00 – 14:00. Lunch, Garden Deck

14:00 – 17:00. Free time

17:00 – 18:00. Reception, Pavilion

18:00 – 19:30. Dinner, GranHall

Session 4: Poster Session – Scattering from Solids, Pavilion (19:30 – 21:30)

4.1. *Formation of Ordered Oxygen Phases in Epitaxial Nb(110) Layers*
O. Hellwig, IBM Almaden Research Center, USA, H.W. Becker, Institut fuer Experimentalphysik / Ionenstrahlenphysik, Ruhr Universitaet Bochum, Germany, H. Zabel, Institut fuer Experimentalphysik / Festkoerperphysik, Ruhr Universitaet Bochum, Germany (2517)

4.2. *Magnetic polarizations of Cu layers in immediate proximity to ferromagnetic layers*
N. Hosoito[1], H. Hashizume[1], T. Ohkochi[2], G. Srajer[3], D. Haskel[3], [1] Nara Institute of Science and Technology, Japan, [2] Kyoto Univ., Japan, [3] Argonne National Laboratory, USA (2568)

4.3. *Cap layer influence on the spin reorientation transition of an ultrathin Co film*
R. Sellmann[1], J. Hunter Dunn[2], J. Langer[1], A. Hahlin[3], O. Karis[3], D. Arvanitis[3], H. Maletta[1], [1] Hahn-Meitner-Institut Berlin, Germany, [2] Stanford Synchrotron Radiation Lab, [3] University of Uppsala, Sweden (2575)

4.4. *Energy-dispersive detection of coherent X-ray scattering*
U. Pietsch, T. Panzer, J. Grenzer, A. Pucher, University of Potsdam, Germany, Germany (2592)

4.5. *Porous silicon studies using x-ray grazing incidence techniques*
V. Chamard[1], G. Dolino[2], P. Bastie[2], D. Le Bolloc_h[3], E. Elkaim[4], C. Ferrero[3], J.P. Lauriat[4], F. Rieutord[5], D. Thiaudiere[4], [1] Univ. Dortmund, Germany, [2] Laboratoire de Spectrometrie Physique, France, [3] ESRF, France, [4] LURE, France, [5] DRFMC/CEA, France (2600)

4.6. *Structural and magnetic properties of EuSe/PbSe, EuSe/PbTe and EuSe/EuTe superlattices grown by molecular beam epitaxy*
R.T. Lechner[1], T. Schülli[1], G. Springholz[1], G. Bauer[1], D. Lott[2], A. Schreyer[2], H. Clemens[2], H. Krenn[3], [1] Johannes Kepler Universitaet Linz, Austria, [2] GKSS Forschungszentrum GmbH, Germany, [3] Karl Franzens Universität, Austria (2609)

4.7. *The study of the structure and exchange coupling of the Py(Ni80Fe20)/Cr multilayers on sapphire substrates*
K.L. Yu[1], M.Z. Lin[1], C.H. Lee[1], J.C.A. Huang[2], Z.A. Ku[2], [1] National Tsing Hua University, Taiwan, [2] National Cheng Kung University, Taiwan (2614)

4.8. *In-situ Neutron Reflection study of the Li intercalation mechanism in thin film anatase TiO_2*
M. Wagemaker, A.A. van Well, IRI TU Delft, Netherlands (2623)

4.9. *Quasi-in-situ reflection mode EXAFS at the Ti K-edge of lithium intercalated rutile and mixed anatase/rutile TiO_2 thin films*
M. Wagemaker[1], D. Lützenkirchen-Hecht[2], P. Keil[2], R. Frahm[2], A.A. van Well[1], [1] IRI TU Delft, Netherlands, [2] Bergische Universität Gesamthochschule Wuppertal, Germany (2624)

4.10. *Influence of x-ray illumination on thin Ti - Carbon films*
K.M. Zimmermann[1], L. Bruegemann[1], D. Weissbach[2], R. Dietsch[2], M. Tolan[3], [1] Bruker-AXS GmbH, Germany, [2] Fraunhofer IWS, Germany, [3] University Dortmund, Germany (2628)

4.11. *Deuterium in 001-oriented $Mo_{0.5}V_{0.5}/V$: the vanishing superlattice*
V. Leiner, Institute Laue Langevin, France, H. Zabel, Ruhr-Universität Bochum, Germany, J. Birch, Linköping University, Sweden, B. Hjörvarsson, Uppsala University, Sweden (2638)

4.12. *The ADAM reflectometer at ILL*
V. Leiner[1], H. Zabel[2], M. Wolff[2], [1] Institute Laue Langevin, France, [2] Ruhr-Universität Bochum, Germany (2640)

4.13. *Resonant Magnetic Scattering of X-Rays from Magnetically Rough Films in the DWBA**
D.R. Lee, Argonne National Laboratory, USA, S.K. Sinha, University of California (San Diego), USA (2673)

4.14. *Study of Surface Structural Inhomogeneities of the MnO2 Thin Films by the Small-Angle X-Ray Scattering*
L. Skatkov, PCB "Argo", 4/23 Shaul ha-Melekh Street, Israel, V. Gomozov, Kharkov Polytechnical University, Ukraine (2679)

4.15. *Quantitative determination of the resonant magneto-optical constants at the Gd $M_{4,5}$ edges*
J. Miguel[1], J.F. Peters[1], O.R.M. Toulemonde[1], J.B. Goedkoop[1], S. Dhesi[2], N.B. Brookes[2], [1] University of Amsterdam, Netherlands, [2] ESRF, France (2694)

4.16. *Spin-polarized neutron reflectivity and magnetization study of Nb/Al multilayers*
P.F. Miceli[1], S.W. Han[1], J. Farmer[1], G.P. Felcher[2], R. Goyette[2], G.T. Kiehne[3], J.B. Ketterson[3], [1] University of Missouri-Columbia, USA, [2] Argonne National Laboratory, USA, [3] Northwestern University, USA (2726)

4.17. *Magnetism at a buried Co/Pd interface probed by standing-wave enhanced magnetic circular dichroism*
S.K. Kim, J. Kortright, Lawrence Berkeley National Laboratory, USA (2752)

4.18. *Structure determination of submonatomic Sn layers in Fe/Cr(Sn)Cr magnetic multilayers using anomalous x-ray scattering techniques*
K. Ishiji, H. Okuda, N. Hosoito, H. Hashizume, Nara Inst. of Sci. and Tech, Japan (2761)

4.19. *Structural characterization of ZnO / Al2O3(11-20) and Au/ZnO/Al2O3(11-20) films by x-ray scattering*
M. Ay, A. Nefedov, H. Zabel, Ruhr-Universität Bochum, Germany (2765)

4.20. *Improved compact X-ray sources*
A. Mozelev, RADICAL, Austria (2550)

Wednesday 25 September

7:30 – 8:30. Breakfast, GranHall

Session 5: Film Growth and Surface Structure – II, Lake-Bay Room (8:30 – 10:30)

8:30 – 9:10. 5.1. (Invited) *Use of coherent x-ray diffraction to image surface structure*
I.K. Robinson, U. of Illinois at Urbana-Champaign, USA (2728)

9:10 – 9:30. 5.2. *X-ray scattering measurements of concentration enhanced interdiffusion at Si/SiGe interfaces*
D.B. Aubertine, N. Ozguven, A.F. Marshall, P.C. McIntyre, Stanford University, USA (2564)

9:30 – 9:50. 5.3. *Grazing incidence small angle X-ray scattering for measuring particle/pore-size distributions in thin films*
K. Omote, Y. Ito, K. Inaba, Rigaku Corporation, Japan (2620)

9:50 – 10:10. 5.4. *Vertical alignment of GaN quantum dots stacked in multilayers: correlation length, depth resolved strains analysis and elastic energy distribution*
V. Chamard[1], T.H. Metzger[2], V. Hol_[3], M. Sztucki[2], M. Tolan[1], E. Bellet-Amalric[4], B. Daudin[4], C. Adelmann[4], H. Mariette[4], [1] Univ. Dortmund, Germany, [2] ESRF, France, [3] Laboratory of Thin Films and Nanostructures, Masaryk University, Czech Republic, [4] CEA-CNRS joint group, France (2601)

10:10 – 10:30. 5.5. *Determination of absolute indium content in InGaN/GaN multiple quantum wells using anomalous x-ray scattering*
D.Y. Noh[1], H.H. Lee[1], K.S. Liang[2], [1] K-JIST, South Korea, [2] SRRC, Taiwan (2611)

10:30 – 11:00. Coffee break, Mountain Deck

Session 6: Soft X-rays, Lake-Bay Room (11:00 – 13:00)

11:00 – 11:40. 6.1. (Invited) *Magnetic x-ray scattering as a probe of heterogeneous magnetic thin films*
E.E. Fullerton, IBM Almaden Research Center, USA (2776)

11:40 – 12:00. 6.2. *Resonant Small-Angle X-Ray Scattering of Polymers at the Carbon K Edge*
I. Koprinarov[1], G. Mitchell[2], B. Landes[2], J. Lyons[2], B. Kern[2], M. Devon[2], J.B. Kortright[3], [1] McMaster University, Canada, [2] The Dow Chemical Company, USA, [3] Lawrence Berkeley National Laboratory, USA (2612)

12:00 – 12:20. 6.3. *Detailed study of magnetic reversal in stripe domain systems using Resonant X-ray Magnetic Scattering*
J.F. Peters[1], J. Miguel[1], O.R.M. Toulemonde[1], J.B. Goedkoop[1], S. Dhesi[2], N.B. Brookes[2], [1] University of Amsterdam, Netherlands, [2] ESRF, France (2690)

12:20 – 12:40. 6.4. *Probing Thin Film Magnetic Domain Structures by Resonant Soft X-ray Small Angle Scattering*
O. Hellwig[1], J.B. Kortright[2], E.E. Fullerton[1], [1] IBM Almaden Research Center, USA, [2] Lawrence Berkeley National Laboratory, USA (2518)

12:40 – 13:00. 6.5. *Magnetic X-ray Reflectivity Study of Fe/Cr Multilayer*
D. Lott[1], C.C. Kao[2], C. Sanchez-Hanke[2], G.P. Felcher[3], J.S. Jiang[3], S.D. Bader[3], [1] GKSS Forschungszentrum GmbH, Germany, [2] Brookhaven National Laboratory, USA, [3] Argonne National Laboratory, USA (2608)

13:00 – 14:00. Lunch, Garden Deck

14:00 – 17:00. Free time

17:00 – 18:00. Reception, Pavilion

18:00 – 19:30. Dinner, GranHall

Session 7: Poster Session – Scattering from Soft Matter & Liquids, Pavilion (19:30 – 21:30)

7.1. *Interaction of the antimicrobial frog peptide, PGLa, with lipid monolayers studied by X-ray grazing incidence diffraction and reflectivity*
O. Konovalov[1], K. Lohner[2], I. Myagkov[3], B. Struth[1], [1] European Synchrotron Radiation Facility, France, [2] Institute für Biophysik und Röntgen-strukturforschung, Austria, [3] Research Institute for Physical Problems, Russia (2525)

7.2. *Growth control of organic thin films*
B. Nickel[1], L. Casalis[1], M.F. Danisman[1], G. Scoles[1], S. Ianotta[2], R. Ruiz[3], [1] Princeton U, USA, [2] Instituto di Fotonica e Nanotechnologie CNR, Italy, [3] Vanderbilt U, USA (2551)

7.3. *Neutron Reflection from the Liquid/Liquid Interface*
J. Webster, ISIS, United Kingdom, A. Zarbakhsh, Queen Mary, United Kingdom, J. Bowers, Exeter University, United Kingdom (2573)

7.4. *Model lung surfactant lipid monolayers and the influence of pulmonary surfactant B on the lipid phase behaviour*
F. Bringezu[1], G. Brezesinski[2], J.A. Zasadzinski[3], J. Ding[3], A. Waring[4], [1] University of Leipzig, Germany, [2] Max Planck Institute of Colloids and Interfaces, Germany, [3] University of California Santa Barbara, USA, [4] UCLA, USA (2582)

7.5. *Capillary waves on water*
C. Gutt[1], M. Tolan[1], T. Ghaderi[1], A. Madsen[2], T. Seydel[3], V. Chamard[1], [1] Univ. Dortmund, Germany, [2] ESRF, France, [3] ILL, France (2599)

7.6. *Investigation of confined and thin film polymers using x-ray scattering methods*
O.H. Seeck[1], M. Mihaylova[1], H. Kim[2], S.K. Sinha[2], D. Lambreva[3], Y. Serero[3], W. deJeu[3], [1] FZ Juelich GmbH, Germany, [2] University of California (San Diego), USA, [3] AMOLF, Netherlands (2605)

7.7. *X-ray scattering at metal-polymer interfaces*
R. Weber[1], I. Grotkopp[1], V. Chamard[2], J. Stettner[1], W. Press[3], M. Tolan[2], O.H. Seeck[4], [1] Institut fuer Experimentelle und Angewandte Physik, Germany, [2] Univ. Dortmund, Germany, [3] Institut Laue-Langevin, France, [4] FZ Juelich GmbH, Germany (2607)

7.8. *Generic phase behavior of branched-chain phospholipid monolayers*
G. Brezesinski, Max Planck Institute of Colloids and Interfaces, Germany, F. Bringezu, University of Leipzig, Germany (2616)

7.9. *Neutrons reflectivity applied to DNA chips*
F. Cousin, A. Menelle, F. Boué, Laboratoire Léon Brilloin, France (2629)

7.10. *Hydrogen as a tuning agent of the interlayer exchange coupling*
V. Leiner[1], K. Westerholt[2], H. Zabel[2], B. Hjörvarsson[3], [1] Institute Laue Langevin, France, [2] Ruhr-Universität Bochum, Germany, [3] Uppsala University, Sweden (2636)

7.11. *Real-Time In-Plane Diffusion of Au Nanoparticles in Polymer Thin Films*
S. Narayanan[1], R. Guico[1], D.R. Lee[1], J. Wang[1], A. Gibaud[2], S.K. Sinha[3], [1] Argonne National Laboratory, USA, [2] University de Maine, France, [3] University of California (San Diego), USA (2663)

7.12. *Neutron Reflection study on the Lipophilic C60-derivative at the Air-water Interface*
U.S. Jeng[1], T.L. Lin[1], Z.-.M. Lin[1], Z.A. Chi[2], /.M.C. Shih[2], L.Y. Chiang[3], K. Shin[4], [1] NTHU, Taiwan, [2] NCHU, Taiwan, [3] NTU, Taiwan, [4] NIST, USA (2665)

7.13. *SANS studies of polyelectrolyte multilayers on colloids and hollow capsules*
I. Estrela-Lopis, S. Leporatti, E. Donath, Leipzig University, Germany (2754)

7.14. *Design and estimated performance of the SNS liquids reflectometer*
J.F. Ankner, C. Rehm, Oak Ridge National Laboratory, USA (2766)

7.15. *SNS: The next generation neutron source*
J.F. Ankner, Oak Ridge National Laboratory, USA (2778)

7.16. *Liquid Surface/Interface Spectrometer at ChemMatCARS Synchrotron Facility at the Advanced Photon Source*
Binhua Lin[1], M. Meron[1], J. Gebhardt[1], T. Graber[1], P.J. Viccaro[1], M. Schlossman[2], [1]University of Chicago, [2]University of Illinois at Chicago

7.17. Thursday 26 September

7:30 – 8:30. Breakfast, GranHall

Session 8: Liquids and Soft Matter – I, Lake-Bay Room (8:30 – 10:30)

8:30 – 9:10. 8.1. (Invited) *High Energy X-rays for the Study of solid-liquid Interfaces*
H. Reichert, Max-Planck-Institut fuer Metallforschung, Germany (2739)

9:10 – 9:30. 8.2. *Capillary waves on water*
C. Gutt[1], M. Tolan[1], T. Ghaderi[1], A. Madsen[2], T. Seydel[3], V. Chamard[1], [1] Univ. Dortmund, Germany, [2] ESRF, France, [3] ILL, France (2596)

9:30 – 9:50. 8.3. *X-ray Photon Correlation Spectroscopy on polymer films with Molecular Weight Dependence*
H. Kim[1], A. Rühm[2], L. Lurio[3], J. Basu[1], J. Lal[4], S. Mochrie[5], S.K. Sinha[1], [1] University of California (San Diego), USA, [2] Max-Planck-Institut für Metallforschung, Germany, [3] Northern Illinois University, USA, [4] Argonne National Laboratory, USA, [5] Yale University, USA (2651)

9:50 – 10:10. 8.4. *Real time measurements of nanoparticle diffusion in ultrathin polymer films using x-ray standing waves*
R.S. Guico[1], S. Narayanan[1], J. Wang[1], K. Shull[2], [1] Argonne National Laboratory, USA, [2] Northwestern University, USA (2664)

10:10 – 10:30. 8.5. *Lipid discrimination of antimicrobial peptides studied by GIXD*
F. Bringezu, University of Leipzig, Germany, G. Brezesinski, Max Planck Institute of Colloids and Interfaces, Germany, A. Waring, UCLA, USA, R.I. Lehrer, UCLA, USA (2593)

10:30 – 11:00. Coffee break, Mountain Deck

Session 9: Liquids and Soft Matter – II, Lake-Bay Room (11:00 – 13:00)

11:00 – 11:40. 9.1. (Invited) *Surface dynamics of polymer films studied via XPCS*
S.G.J. Mochrie[1], H. Kim[2], S.K. Sinha[2], J. Lal[3], J. Basu[2], A. Ruehm[4], L.B. Lurio[4], [1] Yale University, USA,[2] University of California (San Diego), USA, [3] Argonne National Laboratory, USA, [4] MIT, USA (2770)

11:40 – 12:00. 9.2. *Dynamics of a liquid crystal surface near the Nematic-to-Smectic A transition. A critical scattering study applying coherent X-rays*
A. Madsen[1], G. Grübel[1], J. Als-Nielsen[2], [1] ESRF, France, [2] Niels Bohr Institute, Denmark (2527)

12.00 – 12:20. 9.3. *X-ray and neutron surface investigations of highly viscous liquids*
T. Seydel, ILL, France, A. Madsen, ESRF, France, M. Tolan, Univ. Dortmund, Germany, B.M. Ocko, BNL, USA, J. Major, MPI Stuttgart, Germany (2558)

12:20 – 13.00. 9.4. (Invited) *Thin-film polymers used as x-ray waveguides*
T. Salditt, Universität des Saarlandes, Germany (2745)

13:00 – 14:00. Lunch, Garden Deck

14:00 – 17:00 Free time

17:00 – 18:00. Reception

18:00 – 19:30. Dinner, GranHall

Session 10: Magnetic Films – II, Lake-Bay Room (19:30 – 21:30)

19:30 – 20:10. 10.1. (Invited) *Supermatrix formalism to model off-specular neutron scattering*
B.P. Toperverg, FZ Jülich, Germany (2713)

20:10 – 20:50. 10.2. (Invited) *Mapping magnetic disorder in magnetic multilayers*
S. Langridge[1], R.M. Dalgliesh[1], C.H. Marrows[2], B.J. Hickey[2], M. Ali[2], A.T. Hindmarch[2], [1] Rutherford Appleton Laboratory, United Kingdom, [2] University of Leeds, United Kingdom (2755)

20:50 – 21:10. 10.3. *Polarized neutron reflectivity studies on laterally structured stripe arrays*
K. Theis-Bröhl, V. Leiner, T. Schmitte, H. Zabel, Ruhr-Universität Bochum, Germany (2626)

21:10 – 21:30. 10.4. *Self-assembled nanomaterials: magnetic nanoparticles in copolymer films studied by off-specular neutron scattering*
V. Lauter-Pasyuk[1], H. Lauter[2], G. Gordeev[3], P. Müller-Buschbaum[4], B.P. Toperverg[5], W. Petry[4], [1] TU München c/o ILL, France, [2] Institute Laue Langevin, France, [3] PNPI, Russia, [4] TU München, Germany, [5] FZ Jülich, Germany (2652)

Friday 27 September

7:30 – 8:30. Breakfast, GranHall

Session 11: Liquids and Soft Matter – III, Lake-Bay Room (8:30 – 10:10)

8:30 – 8:50. 11.1. *X-Ray and Neutron Surface Studies of Cholera Toxins Interaction with Lipid Monolayer at the Air-Water Interface*
J. Majewski, Los Alamos National Laboratory, USA, T. Kuhl, University of California Davis, G. Smith, Oak Ridge National Laboratory, K. Kjaer, Risoe National Laboratory, Denmark, S. Satija, National Institute of Standards and Technology (2541)

8:50 – 9:10. 11.2. *Structure of Brushite-Water Interface*
J. Arsic, D. Kaminski, P. Poodt, E. Vlieg, University of Nijmegen, Netherlands (2635)

9:10 – 9:30. 11.3. *In situ x-ray standing wave profiling of biomolecular adsorption at a charged interface*
M.J. Bedzyk, K. Zhang, J. Libera, H. Cheng, M. Olvera de la Cruz, L. Cao, Northwestern University, USA (2676)

9:30 – 9:50. 11.4. *Thermal denaturation of interfacial protein layers*
J.W. White[1], M.J. Henderson[1], S.A. Holt[2], [1] Australian National University, Australia, [2] ISIS, United Kingdom (2727)

9:50 – 10:10. 11.5. *X-ray and neutron scattering studies of mesoporous silicate films*
S.A. Holt, ISIS, United Kingdom, J.L. Ruggles, University of Queensland, Australia, J.W. White, Australian National University, Australia (2583)

10:10 – 10:40. Coffee break, Mountain Deck

Session 12: New Methods –Direct Inversion, Lake-Bay Room (10:40 – 12:00)

10:40 – 11:20. 12.1. (Invited) *Solving the inverse problem of surface x-ray diffraction*
D.K. Saldin, University of Wisconsin-Milwaukee, USA (2737)

11:20 – 12:00. 12.2. (Invited) *Phase Determination and Direct Inversion in Specular Neutron Reflectometry*
C. Majkrzak, N.F. Berk, National Institute of Standards and Technology, USA (2718)

12:00 – 12:10. Closing remarks

12:10 – 13:10. Lunch, Garden Deck

13:10. Adjourn