

Workshop on Neutron and X-ray Scattering for the Structure and Dynamics of Nanoscale Materials

in Conjunction with the 4th Workshop on X-ray
and Neutron Scattering Techniques for Surface
Nano-Characterization

일시 2006. 12. 7(목) 9:30~18:00 ~ 8(금) 9:00~13:00

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한국 중성자방 이용 전문연구회

Workshop on Neutron and X-ray Scattering for the Structures and Dynamics of Nanoscale Materials

December 7-8, 2006

KAIST, Mechanical Building(N7), ME Auditorium(#1501), Daejeon, Korea
<http://neutron.kaist.ac.kr/NeutronXrayWorkshop>

December 7, Thursday

9:30~10:00	Registration
10:00~10:10	Opening Remark (Mahn Won Kim / President of KIAS)
	Session I : Neutron Facility (Chair : Sung-Min Choi / KAIST)
10:10~10:40	Byung-Jin Jun / Director of HANARO Center, KAERI <i>HANARO's Vision for Neutron Science and Technology</i>
	Session II : Nanostructured Soft Matter I (Chair : Hongdoo Kim / Kyunghee Univ.)
10:40~11:10	Kookheon Char / Seoul National Univ. <i>SANS and SAXS Studies on the Nanostructured Polymeric Materials</i>
11:10~11:40	Joona Bang / Korea Univ. <i>SAXS and SANS Study on the Cubic Packing of Spherical Block Copolymer Micelles</i>
11:40~12:10	Daewon Sohn / Hanyang Univ. <i>Neutron and X-ray Scattering Studies of Nanofiber Structure</i>
12:10~13:30	Lunch Time
	Session III : Dynamics & Theory in Nanoscale Materials (Chair : Do Young Noh / GIST)
13:30~14:00	Antonio Faraone / NIST, USA <i>Neutron Spin Echo Spectroscopy for the Investigation of Dynamics in Protein</i>
14:00~14:30	Hyotcherl Ihee / KAIST <i>Structural Reaction Kinetics and Dynamics Probed by Time-resolved X-ray Diffraction</i>
14:30~15:00	Jun Han Cho / Dankook Univ. <i>Analysis of Nanostructured Materials from Block Copolymers : Small-angle Neutron Scattering, Neutron Reflectivity, and Molecular Theory</i>
15:00~15:30	Sung-Min Choi / KAIST <i>SANS and Neutron Spin Echo Studies of Self Assembling Soft Materials</i>
15:30~15:50	Coffee Break
	Session IV : Nanoscale Phenomena in Thin Films (Chair : Kwanwoo Shin / Sogang Univ.)
15:50~16:20	Young-Soo Seo / Sejong Univ. <i>No Intrinsic Air nanobubble on a Polystyrene Thin Film at a Water Interface</i>
16:20~16:50	Du Yeol Ryu / Yonsei Univ. <i>Thickness Dependence of Crosslinked Copolymer Material for Surface Modification</i>
16:50~17:20	Chang Soo Kim / KRISS <i>Thickness Measurements of Nano-scale Gate Oxide Films using XRR</i>
17:20~17:50	Ki Bong Lee / Postech <i>X-ray Reflectivity Analysis for Interlayer Thickness between High-k Dielectrics and Si Substrates</i>
18:00~	Banquet

December 8, Friday

	Session V : Nanostructured Soft Matter II (Chair : Kookheon Char / Seoul National Univ.)
9:00~9:30	Moonhor Ree / Postech <i>Nondestructive, Quantitative Synchrotron Grazing Incidence X-ray Scattering Analysis of Nanostructures Supported with Substrates</i>
9:30~10:00	Jon Otto Fossum / NTNU, Norway <i>Complex Physical Phenomena in Nanolayered Silicates (Clays)</i>
10:00~10:30	Jin Kon Kim / Postech <i>Analysis of Nanoporous Structures in Block Copolymer Thin Films</i>
10:30~10:50	Coffee Break
	Session VI : Optics, New Methods & Instruments (Chair : Baek Seok Seong / KAERI)
10:50~11:20	Do Young Noh / GIST <i>Coherent X-ray Diffractive Imaging</i>
11:20~11:50	Hwa Shik Youn / Pohang Accelerator Laboratory <i>X-ray Microscopy</i>
11:50~12:20	Hyon Chol Kang / GIST <i>Nanometer Focusing of Hard X-rays by a Multilayer Laue Lens</i>
12:20~12:50	Young Soo Han / KAERI <i>Development of 40m Small Angle Neutron Scattering Instrument for Studying Nanoscale Materials</i>
12:50~12:55	Closing Remark (Hark Rho Kim / KAERI)
13:00~	Lunch time