

The 7th Workshop on X-ray and Neutron Scattering techniques for Surface Nano-Characterization

Workshop Program

2009.12.1 (Tue)

• Welcoming

진행 : 신관우 교수(서강대)

- 13:00 - 13:10 *Welcome Speech* 김만원 교수(KAIST)/노도영 교수(GIST)
13:10 - 13:20 History of workshop and overview 신관우 교수 (서강대)

• Session I : Instrumentation and Facility

좌장 : 최성민 교수 (KAIST)

- 13:20 - 13:40 Facility Report of PAL : PLS, PLS-II, and PAL XFEL 남상훈 부소장 (PLS)
13:40 - 14:00 Current Status of HANARO Neutron Beam Facility 이기홍 부장 (KAERI)
14:00 - 14:20 Current Status of GIST NCRC : CELA 노도영 소장 (NCRC)

• COFFEE BREAK

- 14:20 - 14:40 Coffee Break

• Session II : Hard Condensed Matter

좌장 : 고도경 교수 (광주과학기술원)

- 14:40 - 15:05 High-pressure synchrotron X-ray powder diffraction study of small-pore zeolites 이용재 교수 (연세대)
15:05 - 15:30 Searching underneath magnetic information using polarized neutron reflectometry 박성균 교수 (부산대)
15:30 - 15:55 Atomic structures of ordered TI overlayers self-assembled on Si(111)-7x7 surface 정진욱 교수 (POSTECH)

• COFFEE BREAK

- 15:55 - 16:15 Photo time & Coffee Break

• Session III : Soft Condensed Matters

좌장 : Prof. M. James (ANSTO)

- 16:15 - 16:40 Humidity-Induced Phase Transitions in Ion-Containing Block Copolymer Membranes 박문정 교수 (POSTECH)
16:40 - 17:05 Self-Assembled Superstructures of 1D Nanoparticles in Phospholipids 김태환 박사 (KAERI)
17:05 - 17:30 Evidence of a liquid-to-layered transition when interface and surface regions overlap in thin liquid films 유청송 박사 (PLS)

좌장 : 이기봉 교수 (POSTECH)

• Session IV : Advanced Techniques for New Sciences

- 17:30 - 17:55 Tailoring, Control and Stabilization of Structured Light 고도경 교수 (GIST)
17:55 - 18:20 Sample environments for HANARO 이창희 실장 (KAERI)
18:20 - 18:30 Discussion : Sample environments for new sciences 이창희 실장 (KAERI)

2009.12.2 (Wed)

• Session V : Softmatter & Biological Interfaces

좌장 : 유청중 박사 (PLS)

- 09:00 - 09:25 Different behavior of nano structure as solvent in P3HT based OPVs
김효정 박사 (서울대)
09:25 - 09:50 Characterization of Engineered Surfaces and Molecular Sensing by Neutron
and X-ray Reflectometry Prof. M. James (ANSIO)
09:50 - 10:15 Exfoliation of organoclay nanocomposites based on
polystyrene-*block*-polyisoprene-*block*-poly(2-vinylpyridine) copolymer:
Solution blending versus melt blending 김진곤 교수 (POSTECH)

• COFFEE BREAK

- 10:15 - 10:30 Coffee Break & Board Meeting

• Session VI : Hard Condensed Matter II

좌장 : 박성균 교수 (부산대)

- 10:30 - 10:55 X-ray laser seeded with high harmonics 김철민 박사 (APRI)
10:55 - 11:20 Antiferromagnetic Interlayer exchange couplings in $Ga_{1-x}Mn_xAs$ /GaAs diluted
ferromagnetic semiconductor multilayers 정재호 교수 (고려대)
11:20 - 11:45 X-ray and Raman Scattering Techniques in Characterization of $YNbO_4$ and
 $YTbO_4$ phosphors doped by Eu^{3+} Dr. M. Nazarov (GIST)

• Closing Remarks

- 11:45 - 11:55 *Closing remarks* 노도영 소장 (NCRC)