

“New Opportunities of Advanced Metrology”

Thursday,
February 27,
2014

The 1st Meeting Room (第一會議室), Central Bldg, Sengen site, NIMS

	Chair : Daisuke Fujita 藤田大介	
09:40-09:45	Opening speech	Sukekatsu Ushioda 潮田資勝
09:45-09:50	Opening speech	Jow-Lay Huang 黃肇瑞 (National University of Kaohsiung)
09:50-10:15	Advanced Metrology in novel energy materials	Chun-Wei Chen 陳俊維 (National Taiwan University)
10:15-10:40	Transport properties of atomically thin semiconducting channels	Kazuhito Tsukagoshi 塚越一仁
10:40-11:05	Nano Metrology in Industrial Applications	Wei-En Fu 傅尉恩 (ITRI)
11:05-11:20	Coffee Break	
	Chair : Chun-Wei Chen 陳俊維	
11:20-11:45	Surface Superconductors on Silicon Revealed by Electron Transport Measurements and Scanning Tunneling Microscopy	Takashi Uchihashi 内橋隆
11:45-12:10	Toward Understanding Materials Physics Atom-by-Atom	Ming-Wen Chu 朱明文 (CCMS, National Taiwan Univ.)
12:10-12:35	Current status of advanced transmission electron microscopy with atomic resolution	Koji Kimoto 木本浩司
12:35-13:00	Atomic-Scale Interfacial Electronic Structures across Hetero-Epitaxial Structures by Cross-sectional STM	Ya-Ping Chiu 邱雅萍 (National Sun Yat-Sen Univ.)
13:00-13:45	Lunch Break	
	Chair : Takashi Uchihashi 内橋隆	
13:45-14:10	Advanced Nanoprobe Technologies for Materials Research	Daisuke Fujita 藤田大介
14:10-14:35	Interactions of metal clusters with carbon nanotubes and graphene	Jason Chang 張嘉升 (IOP, Academic Sinica)
14:35-15:00	Intra-molecular resolution with a cantilever-based atomic force microscopy	Oscar Custance
15:00-15:25	Dipolar Antiferromagnetic Spin Coupling and Quantum Confinement in Co Nanoislands Resolved by Spin-Polarized Scanning Tunneling Microscopy	Minn-Tsong Lin 林敏聰 (National Taiwan University)
15:25-15:50	State-aligned metastable helium beams for probing surface spin	Yasushi Yamauchi 山内泰

Academic Relations Section, NIMS Email to: academic-relations@nims.go.jp

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	Chair : Minn-Tsong Lin 林敏聰	
09:40-10:05	Studying of Nanomaterials by X-ray Microspectroscopy	Way-Fang Pong 彭維鋒 (Tamkang Univ.)
10:05-10:30	Recent instrumentation in surface/interface X-ray analysis	Kenji Sakurai 桜井健次
10:30-10:55	X-ray Scattering Study on High-k Oxides	Chia-Hung Hsu 徐嘉鴻 (NSRRC)
10:55-11:10	Coffee Break	
	Chair : Kenji Sakurai 桜井健次	
11:10-11:35	Experimental Approaches to the Quantum spin ice $\text{Yb}_2\text{Ti}_2\text{O}_7$	Lieh-Jeng Chan 張烈錚 (National Cheng-Kung Univ.)
11:35-12:00	Multi-scale analysis by neutron scattering and application to environment and energy materials	Hideaki Kitazawa 北澤英明
12:00-12:25	Simultaneous Grazing Incidence Small- and Wide-angle X-ray Scattering for Structure and Structure Kinetics of Organic Bulk Heterojunction Thin Film Solar cells	U-Ser Jeng 鄭有舜 (NSRRC)
12:25-12:50	Energy loss functions and IMFPs of semiconductors derived by factor analysis of reflection electron energy loss spectra	Hideki Yoshikawa 吉川英樹
12:50-13:35	Lunch Break	
	Chair : Way-Fang Pong 彭維鋒	
13:35-14:00	Creating, characterizing and probing new type of 2D novel systems	Shu-Jung Tang 唐述中 (National Tsing-Hua University)
14:00-14:25	Optical pumping NMR: dynamic nuclear polarization for semiconductors	Atsushi Goto 後藤 敦
14:25-14:50	Solid state NMR studies in condensed matter physics of NCKU	Chin-Shan Lue 呂欽山 (National Cheng-Kung Univ.)
14:50-14:55	Closing speech	Chun-Wei Chen 陳俊維 (National Taiwan University)
14:55-15:00	Closing speech	Daisuke Fujita 藤田大介