2009 RCIQE International Seminar on "Advanced Semiconductor Materials and Devices"



March 2-3, 2009 Conference Hall, Hokkaido University

Co-Sponsored by Research Center for Integrated Quantum Electronics (RCIQE) and Global COE Program of Center for Next-Generation Information Technology based on Knowledge Discovery and Knowledge Federation, Hokkaido University

Drogram

	riog	grain		
(Monday, March 2)		(Tuesday, March 3)		
10:00 - 10:10	"Opening Address"	_	Advanced Device Technology -	
- Semiconductor Nanowires - 10:10 - 10:50 "Vapor-liquid-solid growth of III-V nanowires:		10:00-10:40	"InGaAs MISFET with hetero-laucher" Y. Miyamoto, Tokyo Institute of Technology	
10:50-11:30	Mechanisms, difficulties, challenges" JC. Harmand, F. Glas, G. Patriarche, L. Largeau, M. Tchernycheva, C. Sartel and L. Liu, CNRS-LPN, France "Heterostructured wurtzite/zinc-blende GaAs/GaAsSb nanowires: New possibilities for	10:40-11:20	"Cooperation of R&D's on compound semiconductor materials with advanced electron devices in NTT laboratories" N. Shigekawa, M. Hiroki and H. Sugiyama, NTT Photonics Labs.	
	band-structure engineering in nanowire based photonic devices" H. Weman, Norwegian University of Science and Technology, Norway	11:20-11:40	"Electrochemical formation and sensor application of InP porous nanostructures" <i>T. Sato, Hokkaido University</i>	
		11:40-13:10	Lunch Break	
11:30-11:50	"III-V semiconductor nanowires and their device application" T. Fukui, S. Hara, K. Hiruma and J. Motohisa, Hokkaido University	- Nanoelectronic Materials and Devices -		
		13:10-13:50	"Novel-functional single-electron device using nanodot array with multiple outputs"	
11:50-13:20	Lunch Break		Y. Takahashi ¹ , T. Kaizawa ¹ , M. Arita ¹ , A. Fujiwara ² , Y. Ono ² and H. Inokawa ³ ,	
- Spintronics -			¹ Hokkaido University, ² NTT Basic Research Labs., ³ Shizuoka University	
13:20-14:00	"Characterization of spintronic materials - Are ferromagnetic clusters in semiconductors useful for spintronics?" P. J. Klar, Justus-Liebig-University of Giessen, Germany	13:50-14:30 14:30-14:50	"Siliconphotonics and plasmonics for on-chip interconnection" K. Ohashi, NEC and MIRAI-Selete "Semiconductor surfaces and growth of	
14:00-14:20	"Ferromagnetic MnAs nanoclusters position- controlled by selective-area MOVPE toward	14.50-14.50	nanowires: A first-principles study" H. Koga, Hokkaido University	
	magneto-resistive device applications" S. Hara, Hokkaido University and JST-PRESTO	14:50-15:00	"Closing Remarks"	
14:20-14:40	Coffee Break	Registration fee: free, Reception fee: 1000 yen		
- Graphen -		Correspondence: Taketomo Sato, RCIQE, Hokkaido University		
14:40-15:20	"Novel microscopies for graphene on SiC" M. Nagase, H. Hibino, H. Kageshima, H. Yamaguchi, NTT Basic Research Labs.	FAX: +81-11-716-6004 e-mail: taketomo@rciqe.hokudai.ac.jp URL: http://www.rciqe.hokudai.ac.jp/conferences/seminar2009.html		
15:20-15:40	"Theoretical investigation of graphene-channel field-effect transistors" E. Sano, Hokkaido University			
15:40-16:00	"Fabrication and characterization of graphene transistor on SiC" K. Yoh and K. Konishi, Hokkaido University			
16:00-17:30	Poster Viewing Session			

Lab Tour to RCIQE (17:00-18:00)

Reception (Centennial Hall, Hokkaido Univ.)

18:00-19:30