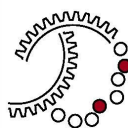




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Australia Japan Nanophotonics Workshop 9-10th December 2008

TUESDAY 9TH December		
<i>Session Chair: Prof. C. JAGADISH, ANU</i>		
9.00-9.30	Prof. Motoichi Ohtsu, University of Tokyo	Nanophotonics: Exchanging the dressed photons
9.30-10.00	Prof. Ross McPhedran, University of Sydney	Interaction and finite wavelength effects in cloaking by plasmonic resonance
10.00-10.30	Prof. Kazunari Matsuda, Kyoto University	Nano-carbon optics: fundamental physics and application of carbon nanotubes
10.30-11.00	MORNING TEA	
<i>Session Chair: Prof. M. OHTSU, UNIVERSITY OF TOKYO</i>		
11.00-11.30	Prof. Hirokazu Hori, University of Yamanashi	Function and fundamental processes of nano-optoelectronics devices and systems
11.30-12.00	Prof Barry Luther-Davies, Australian National University	Nanophotonic nonlinear devices for all-optical signal processing.
12.00-12.30	Prof. Kenzo Miyazaki, Kyoto University	Nanostructuring of thin film surfaces in femtosecond laser ablation
12.30-1.30	LUNCH	
<i>Session Chair: Prof. PAUL MULVANEY, UNIVERSITY OF MELBOURNE</i>		
1.30-2.00	Prof. Richard Blaikie, University of Canterbury	Near-field Imaging with Surface Plasmons
2.00-2.30	Prof. Yasuo Ohdaira, Niigata University	Observation of optical near-field excitation by fluorescent molecules at a planar boundary
2.30-3.00	Dr. James Rabeau, Macquarie University	Single colour Centres in diamond nanocrystals.
3.00-3.30	AFTERNOON TEA	
<i>Session Chair: Prof. LAURIE FARAONE, UNIVERSITY OF WESTERN AUSTRALIA</i>		
3.30-4.00	Prof. Toshiharu Saiki, Keio University	Ultrafast Phase Change in a GeSbTe Film Induced by Femtosecond Laser Pulses
4.00-4.30	Prof. Rob Elliman, Australian National University	Original Synthesis and properties of optically-active silica nanowires
4.30-5.00	Prof. Masakazu Sugiyama, University of Tokyo	Crystal growth technology for the integration of multiple materials and functions
5.00-5.30	Dr. Hoe Tan, Australian National University	Nanowires and Quantum Dots grown by MOCVD for Optoelectronic Device Applications
5.30-6.30	POSTER SESSION	
7.00-9.00	BBQ DINNER	



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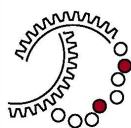
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WEDNESDAY 10TH December		
<i>Session Chair: Prof. RICHARD BLAIKIE, UNIVERSITY OF CANTERBURY</i>		
9.00-9.30	Prof Paul Mulvaney, University of Melbourne	Surface Plasmon Spectroscopy of Single Gold Nanocrystals
9.30-10.00	Dr. Naokatsu Yamamoto, NICT	Control of density and emission wavelength of III-V semiconductor quantum dots
10.00-10.30	Prof Lindsay Botten, University of Technology, Sydney	Modelling of photonic crystal devices - semi-analytic approaches
10.30-11.00	MORNING TEA	
<i>Session Chair: Prof. TANYA MONRO, UNIVERSITY OF ADELAIDE</i>		
11.00-11.30	Prof. Takashi Yatsui, University of Tokyo	Nanophotonic operation and fabrication driven by optical near fields
11.30-12.00	Prof Laurie Faraone, University of Western Australia	Recent Advances in Optical MEMS Technologies For Electrically-Tuneable Multi-Spectral Infrared Sensors and Arrays
12.00-12.30	Dr. Makoto Naruse, NICT, University of Tokyo	Hierarchical scaling in nanophotonics and its system applications
12.30-1.30	LUNCH	
<i>Session Chair: Prof. ROSS MCPHEDRAN, UNIVERSITY OF SYDNEY</i>		
1.30-2.00	Prof. Tanya Monro, University of Adelaide	Nanostructured optical fibres
2.00-2.30	Dr Dragomir Neshev, Australian National University	Nonlinear nanostructures for light manipulation
2.30-2.45	CONCLUSIONS	

The Australia-Japan Nanophotonics Workshop is supported by the Commonwealth through the Australia-Japan Foundation of the Department of Foreign Affairs and Trade



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Posters

Infrared absorption in graphene in the presence of phonon scattering	Dr. Wen Xu	Dep. of Theoretical Physics, Research School of Physical Sciences & Engineering, ANU
Effects of growth rate on crystallographic properties of InP nanowires	Miss Suriati Paiman	Dep of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, ANU
Modeling Evanescent Behaviour in Silver Superlenses	Mr. Ciaran Moore	Dep. of Electrical and Computer Engineering University of Canterbury, Christchurch, New Zealand
Formation of Colloidal Gold Nanoparticles Using Femtosecond Laser Ablation	Mr. Mushtag Sobhan	Dep. of Physics, Macquarie University, NSW, Australia
Quantum Dot Doped Porous Silicon Photonic Structures	Dr. Peter Reece	School of Physics, University of New South Wales, Sydney
Preparation of Gold Shell Protected Magnetite Nanoparticles Using Polyethyleneimine	Dr. May Lim	School of Chemistry, 4 Electron Microscope Unit, University of New South Wales, Sydney
GaAs Nanowires for Optoelectronics: Nanowire Structure, Phase Purity and Compositional Purity	Miss Hannah Joyce	Dep. of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, The Australian National University
Application of self-assembled quantum dots for optoelectronic devices	Dr. Fu Lan	Dep. of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, The Australian National University
Straight GaAs Nanowires on Si (111) Substrates Coated by Thin GaAs Buffer Layer	Mr. Jung-Hyun Kang	Dep. of Electronic Materials Engineering, Research School of Physical Sciences and Engineering, The Australian National University
Ultrafast photonic hammer: A new strategy to synthesise super-hard materials Reversible photomodification of LiNbO ₃ and LiTaO ₃ by femtosecond laser pulses	Dr. Andrei Rode	Laser Physics Centre, Research School of Physical Sciences and Engineering, the Australian National University