

ICOOPMA08 FINAL PROGRAM

PLENARY, INVITED AND ORAL PAPERS

Includes changes to 18 July 08



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MONDAY, 21 July 2008

* Invited papers

	Maple Leaf		Aurora		Prairie	
	Session M		Session A		Session P	
8.30	Nano-photonics Photonic Crystals Chair: Al Meldrum	*J. Hvam Advances in Nanophotonics: Active Photonic Crystal Structures and Devices	Terahertz Spectroscopy, Imaging and Photonics Chair: Matt Beard	*P. Jepsen Application of Reflection Terahertz Time-Domain Spectroscopy for Characterization of Bottled Liquids	Organics I Chair: Jim McMullin	*H. Naito Optical Spectroscopic Studies of Polyfluorene and its Copolymers
9.00		*M. Fox Ultrafast Non-Linear Switching in AlGaAs Photonic Crystals		*D. Mittleman Subwavelength Terahertz Imaging		X. Meng, K. Fujita, Y. Zong, S. Murai, K. Tanaka, In Situ Synthesized Polymer Films Embedded with Superfine Silver Nanoparticles Towards Applications in Random Lasers with Coherent Feedback
9.15		M. Gharghi, B. Sadeghimakki, S. Sivoththaman, Optical Properties of Silicon Nanopillars Formed by Maskless Reactive Ion Etching		A. Ayeshehshim, I. R. Bushfield, F. A. Hegmann, Real-Time Terahertz Imaging Using Full-Field Electrooptic Sampling		J. Chen, D. Ban, X. Feng, Z. Lu, S. Fatholouloumi, A. J. S. Thorpe, H. C. Liu, Enhanced Efficiency in Near-Infrared Inorganic/ Organic Hybrid Optical Upconverter with an Embedded Mirror
9.30		X. Huo, A. Bakhtazad, J. Sabarinathan, Two Dimensional Photonic Crystal Waveguide based Micro-Pressure Sensors		D. G. Cooke, P. Uhd Jepsen, Terahertz photonics: Towards Active Components		M. F. Hossain, H. P. Chan, M. A. Uddin, R. K. Y. Li, Stress Induced Birefringence Analysis of Polymer Optical Waveguides
9.45						P. Thamyongkit, A. Muresan, A. B. Lysenko, I. Schmidt, D. Holten, J. R. Diers, D. Bocian, J. Lindsey, Investigation of Electronic Communication in Porphyrin Arrays for Light-Harvesting Application
10.00	C o f f e e					
10.30		Opening: Safa Kasap and Chris Haugen TRLabs President: Roger Pederson				
10.45	Chair: Frank Hegmann	PLENARY Alexander Gaeta (Cornell) Photonic Nanowires: Ideal Waveguides for Nonlinear Optics				
11.45		PLENARY Eli Yablonovitch (U of California Berkeley) Nano-Photonics, From Photonic Crystals to Plasmonics				

12.45		Lunch				
2.00	Photonic Devices Chair: Chris Haugen	*O. Wada Quantum Dots and Semiconductor Nanostructures for Photonic Signal Processing Devices	Thin Films Chair: Stephen O'Leary	*A. Sudbø Photonic Crystal Films	Organics II Chair: Heinz von Seggern	*J.-M. Nunzi Auger Fountain Electroluminescence in an Organic Diode
2.30		*A. Yoshikawa Novel InN/GaN MQW visible-light-emitters consisting of one monolayer-thick InN wells inserted in GaN matrix		*M.J. Brett Fabrication and Optical Applications of Porous Chiral Thin Films		*M.C. Petty Towards Organic Solid State Lighting
3.00		E. Boyd, M. Hensler, A. Lassesson, S. A. Brown, The Fabrication and Optical Characterisation of Devices based on Stannic Oxide Nano-Cluster Films		M. M. Hawkeye, M. J. Brett, Tailoring the Optical Properties of Thin Films by Controlling Nanostructure		M. Sugisaki, Masazumi Fujiwara¹, S. V. Nair, H. E. Ruda, R. J. Cogdell, H. Hashimoto, Spectrally-resolved Transient Grating Signal of β -carotene
3.15		Y. Kamiyama, A. Tomioka, T. Anzai, K. Iwamoto, W. Susaki, Near-Field Modulation of AlGaInP Laser Diode Emissions by an Aperture Probe of Near-Field Optical Microscope		L. Miao, S. Tanemura, Y. G. Cao, Optical Properties of In ₂ O ₃ Thin Films prepared by Rf Magnetron Sputtering		R. R. Tykwinski, W. A. Chalifoux, A. D. Slepko, F. A. Hegmann, A. Lucotti, M. Tommasini, D. Fazzi, M. Del Zoppo, G. Zerbi, The Surprising Third Order Nonlinear Optical Properties of Polyynes
3.30		Coffee				
4.00	Si Photonics Chair: Mike Bradley	*N. Koshida Photonic, Electronic, and Acoustic Device Applications of Nanocrystalline Silicon	Optical Properties and Applications Chair: Takeshi Aoki	Florian Lenz, R. Decorby, A. Meldrum, Sensitization Efficiencies in Er-doped SiO _x Films Containing Amorphous or Crystalline Silicon Nanoclusters	Organics III Chair: Mike Petty	*H. von Seggern Advances in Organic Light Emitting Transistors
4.15				M. Radion, S. Liudmila, N. Sergiy, S. Vasy, B. Volodymyr, M. Scott, Luminescence Study of Grown Sapphire: from starting Material to Single Crystal		
4.30		*L. Tsybeskov Light Emitting Silicon-Germanium Nanostructures for Optical Interconnects		J. Singh, Light emission from Dark Excitons in Light Emitting Devices		*D. Mills Integrated Optics Devices for Biosensing Applications
4.45				S. Patil, E. P. Samuel, R. Melnik, Thermopiezoelectric Effects on Optoelectronic properties of CdTe/ZnTe Quantum Wires		
5.00				B. Hilling, M. Lemmer, M. Wöhlecke, M. Imlau, A. A. Lebedev, V. V. Bryksin, M.P. Petrov, Space-charge Waves in Hexagonal Silicon Carbide		
5.15		R. Lockwood, A. Meldrum, Luminescence Simulations of Ensembles of Silicon Nanocrystals		*J. Ballato Novel Light Emitting Nanoparticles and Nanocomposites		J. Gao, G. Hunter, F. A. Hegmann, Photoconductive Gain in Pentacene Thin Film Photodetectors
5.30		P. Bianucci, J. R. Rodríguez, C. M. Hessel, A. Meldrum, J. G. C. Veinot, Whispering Gallery Mode Photoluminescence in Silicon-Nanocrystal coated Cylindrical Microcavities				M. Fujiwara, K. Yamauchi, M. Sugisaki, K. Yanagi, A. Gall, B. Robert, R. J. Cogdell, H. Hashimoto, Third-Order Optical Nonlinearity of β -Carotene Homologues Investigated by Third-Harmonic Generation Spectroscopy

5.45		S. Kuai, A. Meldrum, Fast Color-Switching Si Light-Emitting-Diode		A.Tomioka, Y. Kamiyama, Y. Oono, Y. Kosuge, Amplified Spontaneous Emissions from π -Conjugated Conductive Polymer Film: Evanescent-Field Modulation by a 1-D Photonic Crystal Cavity
6.00				

TUESDAY, 22 July 2008

*** Invited papers**

	Maple Leaf		Aurora		Prairie	
	Session M		Session A		Session P	
8.30	Materials and Sensors Chair: Raman Kashyap	*M. Fokine Manipulating Glass for Photonics	Optoelectronic Materials Chair: Tom Tiedje	*L. Fu and C. Jagadish Quantum Dot Optoelectronic Devices	Photovoltaics Chair: Jai Singh	*M.C. Beard Progress Towards Third Generation Photovoltaics
9.00		*H. Limberger Light Induced Stresses in Silica Fibers		*S. Baranovski Disorder Effects in Photoluminescence from Quantum Structures		*V. Dalal New Device Designs in Nanocrystalline Silicon Photovoltaic Devices
9.30		*O. Sezerman Fiber Optic Distributed Strain and Temperature Sensors		*H. Morkoc Optical Devices based on GaN		O.S. Martinez, R. C. Palomera, J. S. Cruz, X. Mathew , Co-evaporated Cd _{1-x} Mg _x Te Thin Films for Applications in Tandem Solar Cells
9.45						
10.00	C o f f e e					
10.30	Chair: Jeff Young	PLENARY Arthur Nozick (NREL) Third Generation Photovoltaics				
11.30		PLENARY Klaus Ploog (Paul Drude Institute) Prospects of Conventional and Dilute III-Nitrides for Light Emitters and Solid-State Lighting				
12.30	L u n c h					

2.00	Photonic Crystals Chair: Mark Fox	*P. Braun Adding Function to 3D Self-Organized Photonic Crystals through Materials Chemistry	Nanoparticles Chair: Frank Van Veggel	*A. Gomes Metallic Nanoparticles for Photonics and Bio Applications	Luminescence and Phosphors Chair: Sammynaiken	*S.W.S. McKeever Applications of Optically Stimulated Radiation Dosimetry in Space Studies and in Medicine
2.30		*R.J. Blaikie Near-field Imaging using Plasmonic-layer Reflection and Transmission		* J.-M. Baribeau Advances in Self-Assembled SiGe Dots and Nanostructures		*M. Blair Luminescence and Structural Properties of Nanophosphors
3.00		A. Hajiaboli, F. Fida, B. Cui, Y. Djaoued, S. Balaji, S. Badilescu, M. Kahrizi, V.-V. Truong, Optical Properties of Thick Metal Nanohole Arrays Fabricated by Electron Beam – and Nanosphere Lithography		*P. Desjardins Spatially-selective Tuning of the Electronic Properties of Self-assembled InAs/InP(001) Quantum Dots using Grown-in Defects and Ion Implantation Mediated Intermixing		A. Mandowski, Cascade Detrapping Phenomenon in Thermoluminescence
3.15		M. A. Summers, K. Tabunshchyk, A. Kovalenko, M. J. Brett, 2D-3D Photonic Crystal hetero-Structures by Glancing Angle Deposition				Cyril Koughia, G. Soundararajan, A. Edgar, C. Varoy, S. Kasap, Study of Radiation Energy Diffusion in Chalcogenide and Fluorochlorozirconate Glasses Doped With Erbium
3.30	Coffee					
4.00	Quantum Dots Nanostructures	*E.H. Sargent Infrared Colloidal Quantum Dot Optoelectronic Devices	Materials, Sensors and Devices and Optical Applications	*R. Martins DNA Detection using Amorphous Silicon Sensors with Gold Nanoparticles	Luminescence and Phosphors	*A. Edgar Novel Scintillating Materials for Radiation Detection and Imaging
4.30	Chair: Kimberley Hall	H. Amekura, H. Boldryeva, M. Ohnuma, N. Kishimoto, Ch. Buchal, S. Mantl, Optical Properties of Oxide Nanoparticles in SiO ₂ Fabricated by Ion Implantation and Thermal Oxidation	Chair: Ray DeCorby	V. Takats, F. Miller, H. Jain, Cs. Cserhati, S. Kokenyesi, Optical and e-beam Recording in Se-enriched Chalcogenide Layers of As-Se system	Chair: S. Tanabe	G. Bizarri, W. W. Moses, J. Singh, A.N. Vasil'ev, R.T. Williams, Influence of Different Order Radiative and Quenching Processes on the Non proportional Light yield in Scintillators
4.45		Singh, M. Dipole-Dipole Interaction in Nanoscale Photonic Quantum Wells		B.D. Fainberg, A. Nitzan, Optical Control of Current in Quantum-Dot and Molecular Tunneling Nanojunctions		R. Sammynaiken, S. Brunet, R. Hoffmeyer, R. Blyth, T. Regier, W. Chen, T. K. Sham, Time Resolved X-ray Excited Optical Luminescence (TRXEOL) investigation of Eu ²⁺ doped Zinc Oxide (ZnO) nanoparticles
5.00		G. Kaur, M. Iqbal, K. Shimakawa, M. S. Bakshi, Synthesis and Characterization of Se and Te Quantum Dots in the presence of Bovine Serum Albumin as Bioconjugate Materials		H. Hosseinkhannazer, J. N. McMullin, L. W. Kostiuik, Microfabrication and Characterization of Biochip Integrated Waveguides and Materials		G. Belev, C. Koughia, S. Panigrahi, H. von Seggern, A. Edgar, C. Varoy, S. Kasap, A Study of X-Ray Induced Luminescence in Sm-Doped Fluorochlorozirconate Glass Ceramics
5.15		H. Jiang, A. Bakhtazad, J. Sabarinathan, 3-D FDTD and Plasmon Band Analysis of Slab-Waveguide-excited Surface Plasmon Resonance of Periodic Array of Gold Nanostructures		J. P. Hulme, J. Gwak, N. J. Goddard, Thin Film Germanium Waveguide for Refractive Index Sensing		G. V. M. Williams, C. Dotzler, A. Edgar, Radiation-Induced Optically Stimulated Luminescence in Mn ²⁺ and Eu ²⁺ Doped RbMgF ₃
5.30		K. M. Krause, M.J. Brett, Spatially Graded Photonic Nanostructures for Sensing Applications		P. Jin, S. Ji, H. Kakiuchida, M. Tazawa, Surface Plasmon Resonance of Metal Nanoparticles for Smart		I. Kamma, P. Kommidi, Reddy, B. R., High Temperature Measurement using Rare-earth Luminescence

			Window Application	
5.45	D. Y. Kim, M. S. Kim, H. J. Park, G. S. Kim, H.-y. Choi, H. H. Ryu, M. Jeon, G. S. Cho, D.Y. Lee, J. S. Kim, J. S. Kim, J.S. Son, J. Y. Leem, Effects of GaAs/InGaAs Strained Layer Superlattices on Optical Properties of InAs Quantum Dots		G. Nemova, R. Kashyap, LPG Assisted High-Power Fibre Amplifier with Er ³⁺ Doped Cladding	X. Meng, S. Hesse, C. Fasel, J. Zimmermann, R. Riedel, H. von Seggern, A New Synthesis Route for the Highly Sensitive x-ray Storage Phosphor BaFBr:Eu ²⁺
6.00				
6.00	Coordinator: Al Meldrum (Chair) and Mike Bradley	POSTERS	Wild Rose Room	
		Drinks and light food during the Poster Session		
8.15	Poster Prizes			
8.45	End of Poster Session			

WEDNESDAY, 23 July 2008

* Invited papers

	Maple Leaf		Aurora		Prairie	
	Session M		Session A		Session P or Wild Rose	
8.30	Photonic Devices Chair: Cyril Koughia	*Y. Fujiwara Injection-type 1.5 μ m Light-emitting Diodes with Er,O-codoped GaAs exhibiting Extremely Temperature-stable Emission Wavelength	Semi-conductors for Opto-electronics Chair: Patrick McNally	*E. H. Linfield Recent Developments in Terahertz Quantum Cascade Lasers	Glasses for Photonics Chair: Animesh Jha	*Y. Ohishi Novel Photonics Glasses for Future Optical Signal Processing
9.00		M. Risch, M. Bradley , Prospects for Band Gap Engineering by Plasma Ion Implantation		C. Scurtescu, Z. Y. Zhang, A. J. Alcock, R. Fedosejevs, H. E. Ruda, Y. Y. Tsui , InAs/GaAs Quantum Dot Device and Materials for Passive Mode-locking of NIR Lasers		*J. Heo Tuning the Photoluminescence of Quantum Dots in Glasses
9.15		P. Desautels, M. Bradley, J.T. Steenkamp, J. Mantyka , Electroluminescence in Plasma Ion Implanted Silicon		D. Alexandrov, N. Dietz, I. Ferguson , Magnetic Properties of Epitaxial Layers of Mn _x Ga _{1-x} N Semiconductor Compound Alloy		*S. Tanabe Transparent Active Glass Ceramics Containing Fluorite Solid-Solutions for Lanthanide Applications
9.30		R. A. Ganeev, M. Suzuki, M. Baba, H. Kuroda, T. Ozaki , High-Order Harmonic Generation in Nanoparticle-Contained Laser-Produced Plasmas		D. N. Talwar , Study of Microscopic Structures in Dilute III-N-As Materials by Local Mode Spectroscopy and Numerical Simulations		
9.45		P. Bianucci, C. Fietz, J. W. Robertson, G. Shvets, C. K. Shih , Observation of Simultaneous Fast and Slow Light in a Microresonator				
10.00	Coffee					
10.30	Nano-structures Chair: N. Koshida	*K. A. Bosnick Discrete Carbon Nanotube Diodes	Semi-conductors for Opto-electronics Chair: Hadis Morkoc	*M. Willander Light Emission from Different Zinc Oxide Junctions and Nanostructures	Glasses for Photonics Chair: Andy Edgar	*G. C. Righini Photonic Properties and Applications of Glass Micro- and Nanospheres
11.00		*W. I. Milne Carbon Nanotubes for Photonic Devices		P. Hari, D. Spencer, M. Baumer, P. Utekar, M. Sluch, D. Teeters Surface Morphology Zinc Oxide Nanorods grown by Hydrothermal Deposition Technique		*A. Jha Rare-earth Oxide Doped Tellurite Glass Near and Mid-IR Fibre Lasers
11.15				L. Miao, S. Tanemura, H. Y. Yang, S. P. Lau , Random Laser Action in 3-D ZnO Nanostructure		
11.30		S. Manivannan, I. O. Jeong, J. H. Ryu, H. E. Lim, J. Jang, K. C. Park , Spin Coated Transparent Electrodes from Dispersed Single-Walled Carbon Nanotubes Solution for Display and Optoelectronics		F. O. Lucas, P. J. McNally, A. Cowley, L. Bradley, D. Danieluk , Structural, Optical and Electrical Properties of Co-evaporated CuCl/ KCl films		V. Takats, F. Miller, H. Jain, Cs. Cserhati, S. Kokenyesi , Direct Surface Patterning of Homogeneous and Nanostructured Chalcogenide Layers

11.45	J. H. Ryu, H. E. Lim, B. T. Son, J. W. Lim, N. Y. Song, I. O. Jeong, S. Manivannan, J. Jang, K. C. Park, Carbon Nanotube-emitter for X-ray Source	T. Boyko, W. Y. Ching, S. O. Kasap, A. Moewes, Spectroscopic Analysis of Amorphous and Crystal Phases of Silicon Nitride	T. Aoki, K. Fujimoto, C. Fujihashi, C. Koughia, S. O. Kasap, Observation of $^4F_{3/2} \rightarrow ^4I_{15/2}$ Radiative Transition in Nd^{3+} Ions in GaLaS Glass using Frequency-Resolved PL Spectroscopy
12.00	Y. P. Sun, Photoluminescent Carbon Dots and Various Applications	A. Cowley, B. Foy, D. Danilieuk, P. J. McNally, A. L. Bradley, E. McGlynn, A. N. Danilewsky, UV Emission on a Si Substrate: Optical and Structural Properties of Liquid Phase Epitaxy of γ -CuCl on Si	X Jiang, S Shen, A Jha, Melting Condition Effects on Photoluminescence of Bi_2O_3 doped Germanate Glass
12.15	R. Tomašiūnas, G. Statkutė, I. Mikulskas, A. Jagminas, Copper Selenide Nanowires: a New Material for Light-induced Applications.	T. Itoh, K. Matsuyama, K. Shimakawa, J. Orava, T. Wagner, M. Frumar, Optical Properties of Conductive ZnO Films Near Infrared Frequency	T. Nakanishi, S. Tanabe, Preparation and Luminescent Properties of Eu^{2+} -Activated Glass Ceramic Phosphor Precipitated with β - Ca_2SiO_4 and $Ca_3Si_2O_7$
12.30	Lunch		

12.30 – 2.15 ICG-TC20 Meeting at Ever Green Room

2.00	Semi-conductors Chair: Magnus Willander	*T. Tiedje Growth and Properties of Gallium Arsenide Bismide, a New Long Wavelength Semiconductor	Amorphous / Nano-crystalline Materials I Chair: Robert Collins	*K. Morigaki Recombination Processes and Light-Induced Defect Creation in Hydrogenated Amorphous Silicon	Photoinduced Effects in Glasses Chair: Miloslav Frumar	*T. Wagner Properties and Structure of $Ag_x(As_{33}S(Se, Te)_{67}100-x)$ Bulk Glasses and Films
2.30		*Y. Nanishi Potential, Achievements and Issues of InN and Related Alloys for Device Applications		*A. Nathan Nanocrystalline Silicon Thin Film Transistors In Optoelectronics Applications		*M. Mitkova Photoinduced Diffusion in Tetrahedrally Coordinated Chalcogenide Glasses
3.00		*R. Goldhahn Band Structure and Optical Properties of Nitride Semiconductors		C. Ogihara, K. Morigaki, Temperature Variation of Radiative Recombination Rate of Electron-hole Pairs Responsible for Defect Photoluminescence in a-Si:H		*K. Tanaka Visible Anisotropic Deformation of Chalcogenide Glass by Optical Force
3.15		A. Sazonov, Y. Vygranenko, M. Vieira, Photo-TFT with nc-Si/a-Si:H Bilayer Channel for Large Area Digital Imaging				
3.30	Coffee					
4.00	Materials and Devices Chair: Ken Bosnick	*K. Vahala Cavity Optomechanics: The New Physics of Back-action Cooling and Amplification	Amorphous / Nano-crystalline Materials II Chair: Arokia Nathan	*R. W. Collins Optical Analysis of Thin Films and Interfaces in Photovoltaic Devices	Glasses Chair: Maria Mitkova	*T. Komatsu Laser Patterning of Nonlinear Optical Single Crystal Lines in Glasses
4.30		M. P. Bradley, M. Risch, P. Desautels, D. Hunter, Electroluminescent Device Production via Plasma Ion Implantation		*T. Kamiya Electronic Structure, Doping, Defects, and Carrier Transport in Amorphous Oxide Semiconductors: Recent Progress		N. Terakado, K. Tanaka, Ag-Photodoping in Nano-Structured GeO_2 - GeS_2 Glasses
4.45		T. Mei, C. D. Xu, M. K. Chin, J. R. Dong, Polarized Edge-emitting Photoluminescence in Application of Quantum Well Intermixing Study for				J. Teteris Interaction between Light and Soft Materials

		Photonic Integration		
5.00		R. Kashyap, G. Nemova , High Efficiency Solid State Laser Cooling in Yb ³⁺ :ZBLANP Fibre with Tilted Fibre Bragg Grating Structures		E. Fortunato, P. Barquinha, L. Pereira, G. Gonçalves, R. Martins , Why Amorphous Oxide Semiconductors are so Attractive for Thin Film Transistors?
5.15 – 5.30		M. Gagné, L. Bojor, R. Maciejko, R. Kashyap , Novel long Fiber Bragg Grating Fabrication Technique based on Push-pull Phase-shifting Interferometry		F. Orapunt, L.-L. Tay, D. J. Lockwood, J.-M. Baribeau, M. Noël, J. C. Zwinkels, S. K. O’Leary , The Amorphous-to-crystalline Phase Transition in Thin Silicon Films deposited on Silica under Ultra-high Vacuum
				T. Kohoutek, J. Orava, J. Prikryl, T. Wagner, Mil. Vicek, P. Knotek, M. Frumar , Planar Chalcogenide Quarter Wave Stack Filters for Near-Infrared
				G. Lucovsky , Controlled Chemical Phase Separation in Binary and Ternary Composites: A Pathway to Isotropic Optical and Electrical Behaviour for Device Applications

BANQUET (ROYAL GLENORA CLUB)

6.00 – 6.30	Buses from the Conference Centre to Royal Glenora Club	
6.45		Cocktails
7.15		DINNER (Alberta's finest roast beef. Canadian fine red and white wines)
	A few words	Remarks: Safa Kasap
7.20	Poster prizes	Poster Prizes: Al Meldrum
8.30	Speaker	Dr. Philip Currie, The Dinosaur Detective / Chair, Frank Hegmann Title: A Centenary of dinosaur hunting in Alberta
9.30	A few words	Closing: Safa Kasap
10.00 – 10.30	Buses back to the Lister Centre	

THURSDAY, 24 July 2008

* Invited papers

	Maple Leaf		Aurora		Prairie		
	Session M		Session A		Session P		
8.30	Terahertz Imaging, Ultrafast Spintronics, and Meta-materials	*K. Fukunaga Terahertz Spectroscopy and Imaging Techniques for Non-invasive Art Analysis	Nanophotonics, Quantum, Dots and Related Topics	*S. Fan Dynamic and Non-Reciprocal Effects in Nanophotonics	Chalcogenide Glasses	*G. Lucovsky Microscopic Description of Strain-Reducing Chemical Bonding Self-Organizations in Non-Crystalline Alloys: <i>Applications in Electronic and Optoelectronic Devices</i>	
9.00		*K. C. Hall Femtosecond Optical Studies of Spintronic Materials		*M. R. Singh All-Photonic Switching in Nanophotonic Quantum Wells		*M. Frumar Binary and Ternary Tellurides for Optical and Electrical Data Storage	
9.30		Chair: Frank Hegmann		*W. J. Padilla Narrow-Band Perfect Metamaterial Based Absorber for Terahertz Imaging		J. Liu, Z. Lu, S. Raymond, P. J. Poole, P. J. Barrios, D. Poitras, High-power C-band Multi-wavelength Quantum-dot Laser	Chair: Tomas Wagner D. C. Bobela, P. C. Taylor, Insight into the Local Bonding Structure of Antimony and Tellurium in some Amorphous Phase Ge ₂ Sb ₂ Te _x Compounds
9.45						T. Iida, H. Ishihara, Unconventional Control of Excited States of a Dimer Molecule by a Localized Light Field between Metal Nanostructures	D. Franta, D. Nečas, J. Přikryl, M. Frumar, Modeling of Dielectric Response of Ge _x Sb _y Te _z (GST) Materials
10.00	Coffee						
10.30	Chair: Koichi Shimakawa	PLENARY Y. Arakawa (University of Tokyo) Advances In Quantum Dots for Nanophotonic and Quantum Information Devices					
11.30		PLENARY K. Tanioka (NHK) Ultra-Sensitive Imaging with HARP: From Concept to Realization at NHK					
12.30	Lunch						
2.00	Photonic Crystals	*J. C. Knight Nonlinear Optics with Tiny Bits of Glass: Photonic Crystal Fibres	Materials, Sensors and Devices	*J. S. Marsland Impact Ionization in Semiconductors: Recent Progress and Non-Local Effects	Nonlinear and Related Phenomena	*B. J. Eggleton Ultrafast All-optical Chalcogenide Glass Photonic Circuits	
2.30	Chair: Jorn Hvam	*T. F. Krauss Slow Light in Silicon Photonic Crystal Waveguides	Chair: Sergei Baranovskii	Y. Ohkawa, K. Miyakawa, T. Matsubara, K. Kikuchi, S. Suzuki, M. Kubota, N. Egami, A. Kobayashi, Temperature Dependence of Carriers in High Sensitivity HARP Photoconductive Film	Chair: Keiji Tanaka	*K. Kamada Recent Advancements in Molecular Design of Molecular Two-Photon Absorbers	
2.45				A. Reznik, M. Wronski, S. D. Baranovskii, O. Rubel, K. Jandieri, Y. Ohkawa, M. Kubota, K. Tanioka, J. A. Rowlands, Avalanche Multiplication in Amorphous Selenium Solid-State Photodetector			

3.00		R. C. Gauthier , Photonic Quasi-Crystals	A. Sultana, J. A. Rowlands, K. S. Karim , The Effect of K-edge Reabsorption of Selenium on the Performance of a Protein Crystallography Detector	A. Villafranca, K. Kasala, M. Ponte, I. Burgess, L. Qiu, W. Shimmell, K. Saravanamuttu , Nonlinear Light Propagation In Photoresponsive Systems: From Self-Trapped Beams To 3-D Lattices Of White Light
3.15		M. R. Singh, A. Hatef , Time Evolution of Absorption Process in Nonlinear Metallic Photonic Crystals	N. Safaviana, M. H. Izadia, A. Sultanaa, K. S. Karima, A. Nathanb, J. A. Rowlands , Noise Analysis of a Novel Hybrid Active-Passive Pixel for Medical X-ray Imaging	A. D. Slepko, S. E. Schrauth, B. Shim, A. L. Gaeta , Formation of a Spatio-temporal Shell Pulse by using Non-degenerate Two-photon Absorption
3.30	Coffee			
4.00	Closing Session	*M. G. Kuzyk (Special Invited) Transmitting Mechanical Forces on a Beam of Light		
4.30	Chair: Safa Kasap	PLENARY Jeff Young (UBC) Nanostructures to Miniaturize Nonlinear Optics		
5.30	Closing	Closing: Safa Kasap, Jai Singh and Sandor Kokenyesi		

