

**CD-Proceedings**

**ACOFT/AOS '04**



Australian National University  
Canberra, 5–8 July, 2004

**conference 2004**

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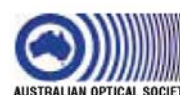
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## Program Day 1—Monday 5 July 2004

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
<b>ACOFT: Lasers Amplifiers And Nonlinear Devices 1</b>		
10.00am	<i>John Harvey (Invited)</i>	Fibre Optic Parametric Amplifiers In The Visible Using A PCF
10.30am	<i>Graham Town</i>	Dual Wavelength DBR Fibre Laser
10.45am	<i>Brendan Dobson</i>	Directional Explosions Of Solitons Produced By Passively Mode-Locked Lasers
11.00am	<i>Kenneth Lee</i>	Thermal Poling Of Long Lengths Of Optical Fibre With Internal Electrodes Integrated
11.15am	<i>Kamal Gupta</i>	Mode-Locked Fibre Lasers Generating Optical Pulse Trains Via Inter-Mode Beating In Regenerative Feedback Loop
11.30am	<i>Yucheng Zhao</i>	Four-Cascaded Raman Laser Based On Germanium-Doped Silica Fibre
11.45am	<i>Wenn Jing Lai</i>	The Fibre Ring Laser
12.00pm	<i>Ross McKerracher</i>	Tunable Wavelength Conversion In One-Pump Fibre Parametric Amplifiers
12.15pm–1.30pm	<b>LUNCH</b>	

<b>ACOFT: Optical Networks</b>		
1.30pm	<i>Richard Lauder (Invited)</i>	Systems Industry Perspective
2.00pm	<i>William Shieh</i>	Applying Feed Forward Phase Compensation To Optical Carrier Recovery
2.15pm	<i>Peter Farrell</i>	Safety Issues In Next Generation All Optical Networks
2.30pm	<i>Kerry Hinton</i>	Optically Monitored Histogram Transforms
2.45pm	<i>Leigh Palmer</i>	Polarisation Mode Dispersion Emulator Design For Low Background Autocorrelation
3.00pm	<i>Arthur Lowery</i>	Improving Performance Of Red Shift Wavelength Converters
3.15pm	<i>Sarah Dods</i>	Optical Performance Monitoring Combining Optical Signal Processing And Histogram Techniques
3.30pm–4.00pm	<b>AFTERNOON TEA</b>	

<b>ACOFT: Microstructured Fibres</b>		
4.00pm	<i>Boris Kuhlmeier (Invited)</i>	Microstructured Optical Fibres: Principles And Applications
4.45pm	<i>Tim Birks (Invited)</i>	New Waveguides For Old: Tapering Conventional And Photonic Crystal Fibres Down To The Nano-Scale
5.15pm	<i>Stephane Coen</i>	The Compressibility Of Supercontinuum Spectra Generated In Photonic Crystal Fibres
5.30pm	<i>Eric Magi</i>	Transverse Characterisation Of Tapered Photonic Crystal Fibres
5.45pm	<i>Yannick Lize</i>	Low-Loss Single-Mode Nanostructured Silica Photonic Wire
6.00pm	<i>Martijn Van Eijkelenborg</i>	Solution-Doped Microstructured Polymer Optical Fibre Amplifiers And Fibre Lasers
6.15pm	<i>Peter Domachuk</i>	Microfluidic Tunable Transverse Photonic Crystal Fiber Switch
6.30pm–7.00pm	<b>BREAK</b>	
7.00pm–8.30pm	<b>POST-DEADLINE SESSION</b>	

The program is correct at the time of publication however the Joint Organising Committee reserves the right to change the speaker program where necessary.

## Program Day 2—Tuesday 6 July 2004

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
<b>ACOFT: Novel Photonic Devices</b>		
8.30am	<i>Pierre Viktorovitch (Invited)</i>	2D Photonic Crystal Circuits
9.00am	<i>Brendan Hanna</i>	Gap Solitons And Mutual Focusing In Nonlinear Periodic Structures
9.15am	<i>Nicolae Nicorovici</i>	Impedance Models Of Photon Conductance In Photonic Crystal Waveguides
9.30am	<i>David Mechin</i>	New Similariton Solutions Of The Generalised Nonlinear Schrodinger Equation
9.45am	<i>Thomas White</i>	Photonic Crystal Based Mach-Zehnder Interferometer
10.00am	<i>Shane Huntington</i>	Topographic And Optical Enhancement Of NSOM Probes
10.15am	<i>Daniel Kitcher</i>	Distributed Temperature Sensors In Non-Uniform And Non-Linearly Chirped Fibre Bragg Gratings
10.30am–11.00am	<b>MORNING TEA</b>	

<b>ACOFT: Laser, Amplifiers and Nonlinear Devices II</b>		
11.00am	<i>Shu Namiki (Invited)</i>	Nonlinear-Fiberoptic Devices For Ultra Fast Optical Signal Processing
11.30am	<i>Justin Blows</i>	Four-Wave-Mixing Induced Crosstalk In Optical Fibre Parametric Amplifiers With Orthogonally Polarized Pumps
11.45am	<i>Anton Desyatnikov</i>	Robust Two-Dimensional Soliton Lattices In Photorefractive Medium
12.00pm	<i>Frederique Vanholsbeeck</i>	Numerical Model Of Four-Wave Mixing Assisted Raman Fiber Laser
12.15pm	<i>Simon Fleming</i>	Second Harmonic Imaging Of Thermally Poled Optical Fibres
12.30pm	<i>David Lancaster (Invited)</i>	Laser Research At The DSTO
1.00pm–2.00pm	<b>LUNCH</b>	

<b>ACOFT: RF Photonics</b>		
2.00pm	<i>Anthony Holland (on behalf of Yuvaraja Visagathilager)</i>	Investigation Of Flip Chip Interconnects For High-Speed Linbo3 Modulators
2.15pm	<i>Mingya Shen</i>	Photonics-Based Optical Frequency Comb Generation
2.30pm	<i>Sana Mansoori</i>	RF Transversal Filter With Negative Coefficients
2.45pm	<i>David Hunter</i>	True-Time Delay Beam Forming Using A Multichannel Chirped Fibre Grating
3.00pm–5.00pm	<b>ACOFT POSTER SESSION</b>	

<b>ACOFT: Planar Waveguide Devices</b>		
5.00pm	<i>Erol Harvey (Invited)</i>	Optical Lithography And Microfluidic Photonics
5.30pm	<i>John Love</i>	Single Material Slab Waveguides
5.45pm	<i>Xinshi Luo</i>	Preparation And Photosensitivity Of Tio2-Doped Hybrid Sol-Gel Glass Films
6.00pm	<i>Anthony Holland</i>	Fabrication Of Polymer Rib Waveguides Using SU-8
6.15pm	<i>David Moss</i>	Bragg Gratings In Silicon-On-Insulator Waveguides Using Focused Ion Beam Milling
6.30pm	<i>Yinlan Ruan</i>	Fabrication And Characterization Of Rib Chalcogenide Waveguides
7.00pm–11.00pm	<b>CONFERENCE DINNER</b>	

## Program Day 3—Wednesday 7 July 2004

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
<b>Joint ACOFT / AOS Plenary</b>		
9.00am	<i>Alan Willner (Invited)</i>	Emerging Issues In Optical Communication Systems
9.40am	<i>Brian Wilson (Invited)</i>	Biophotonics: Emerging Optical Technologies And Applications In Medicine And Biomedical Sciences
10.20am–10.50am	<b>MORNING TEA</b>	

<b>Joint ACOFT/AOS Plenary</b>		
10.50am	<i>Malgorzata Kujawinska (Invited)</i>	Optical Metrology: From Micromasurements To Multimedia
11.30am	<i>Brian Orr (Invited)</i>	Narrowband Tunable Optical Parametric Oscillators: Photonics And Nonlinear Optics Meet Molecular Spectroscopy
12.10pm	<i>Ross McPhedran</i>	AOS Medal Presentation & Address
12.40pm	<i>Peter Kemeny (Invited)</i>	Photonics Applications Of Synchrotron Radiation
1.00pm–2.00pm	<b>LUNCH</b>	

<b>AOS: Laser Applications</b>		
2.00pm	<i>Judith Dawes (Invited)</i>	Ytterbium lasers: tunable and efficient
2.30pm	<i>Simon Parkin</i>	An Optically Driven Micro-Viscometer
2.45pm	<i>Aaron McKay</i>	Stable Broadly Tunable Source At Microwave Frequencies Using Dual Mode Diode Pumped Nd:YAG Laser
3.00pm	<i>Adrian Ratnapala</i>	Frequency Locking By Direct Measurement Of Laser Detuning
3.15pm	<i>Peter Dekker</i>	Nonlinear Optical Characterisation Of Frequency-Doubling Crystals: 'Natural Quasi-Phase Matching'
3.30pm–4.00pm	<b>AFTERNOON TEA</b>	

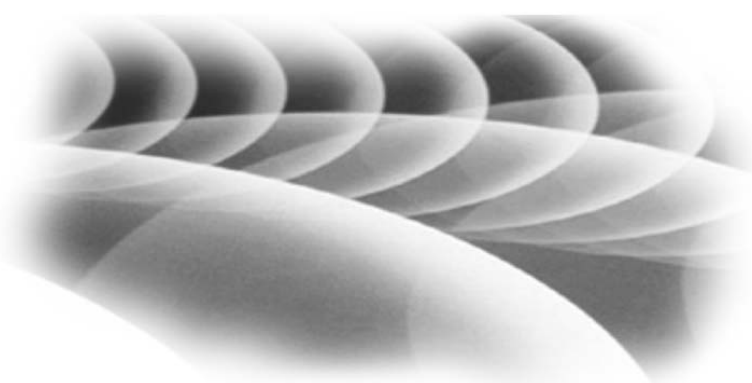
<b>AOS: Non Linear Optics And Novel Photonic Systems</b>		
4.00pm	<i>Guangyong Zhou</i>	Ultrafast-Laser Driven Micro-Explosions And Three-Dimensional Void-Based Photonic Crystal Fabrication In A Solid Polymer Material
4.15pm	<i>Michael Feise</i>	Sub-Wavelength Imaging With Layered Left-Handed Media
4.30pm	<i>Ara Asatryan</i>	Lamb Shift Of Sources In Two-Dimensional Photonic Crystals
4.45pm	<i>Tim Davis</i>	Optical Interference From Nano Photonic Resonators
5.00pm	<i>Dmitri Gramotnev</i>	New Plasmonic Sub-Wavelength Waveguides—Next To Zero Losses At Sharp Bends
5.15pm	<i>Wieslaw Krolikowski</i>	Nonlocal Incoherent Solitons
5.30pm	<b>AOS ANNUAL GENERAL MEETING</b>	
6.00pm	<b>AOS COUNCIL MEETING</b>	
6.30pm–9.00pm	<b>AOS POSTER SESSION</b>	

## Program Day 4—Thursday 8 July 2004

<i>Time</i>	<i>Speaker</i>	<i>Title</i>
<b>AOS: Quantum Optics</b>		
9.00am	<i>Andrew White (Invited)</i>	Linear Optical Quantum Computing
9.30am	<i>Kirk McKenzie</i>	Sub Khz Squeezing For Gravitational Wave Detection
9.45am	<i>Peter Rohde</i>	Temporal Mode-Matching Effects in Linear Optics Quantum Computation
10.00am	<i>Magnus Hsu</i>	Continuous Wave Position-Momentum Entanglement
10.15am	<i>Paul Edwards</i>	Quantum Communication Trials Over Long Atmospheric Paths
10.30am–11.00am	<b>Morning Tea</b>	

<b>AOS: Classical Optics</b>		
11.00am	<i>Andrew Blakers (Invited)</i>	Photovoltaic Energy Conversion
11.30am	<i>Ling Fu</i>	A Fibre-Optic Second Harmonic Generation Microscope
11.45am	<i>Malcolm Gourlay</i>	Experimental Demonstrations Of Signal To Noise Ratio Improvement Of Fourierdomain OCT
12.00pm	<i>Celine Aruldoss</i>	A Non-Interferometric Technique For Determining The Mutual Optical Intensity Of Partially Coherent Sources
12.15pm	<i>Jan Burke</i>	A New Class Of Tunable Phase-Shifting Formulae For Multi-Surface Interferometry
12.30pm–1.45pm	<b>Lunch (Second AOS Council Meeting)</b>	

<b>AOS: Coherent Light Matter Interactions</b>		
1.45pm	<i>Wilbert Rooijackers</i>	Matter Wave Coherence In A Ferromagnetic Ring
2.00pm	<i>Chris Vale (Invited)</i>	Bose-Einstein Condensation On An Atom Chip
2.30pm	<i>Barry Sanders (Invited)</i>	Optical Quantum Fingerprinting
2.45pm	<i>Elliot Fraval</i>	Solid State Spin Qubit Decoherence Times In Excess Of 20s Achieved Using Dynamic Decoherence Control
3.00pm	<b>AOS Student awards</b>	
3.15pm	<b>Close of Conference</b>	



## ACOPT Poster Sessions

Posters listed by Presenting Author

<b>P01</b>	<i>Adrian Ankiewicz</i>	Nonlinearly Nonlocal Discrete Complex Quintic Ginzburg-Landau Equation—Selected Solutions
<b>P02</b>	<i>Lindsay Botten</i>	Symmetry of Modes in Coupled Photonic Crystal Waveguides
<b>P03</b>	<i>Lam Bui</i>	Four-Element Broadband Photonic Phased Array Antenna Using the Vector Sum Phase Shifters
<b>P04</b>	<i>Douglas Bulla</i>	OH Absorption Peak on Silica Planar Waveguide Deposited by HARE-PECVD
<b>P06</b>	<i>Stephen Collins</i>	Temperature and Strain Dependence of Fluorescence Lifetime in Pr-Doped Fibres
<b>P07</b>	<i>Claire Rollinson</i>	Photosensitivity of Tin-Doped Aluminosilicate Optical Fibre
<b>P08</b>	<i>Milad Dagher</i>	Thermal Stability of Fibre Bragg Gratings Written in Er <sup>3+</sup> -Doped Fibre
<b>P09</b>	<i>Steven Trpkovski</i>	Ultra Stable Fibre Bragg Gratings at Very High Temperatures
<b>P010</b>	<i>Malin Premaratne</i>	Application of Genetic Algorithm Techniques to Optimize Optical Component Selection Problem
<b>P011</b>	<i>Peter Domachuk</i>	Experimental and Finite Difference Time Domain Technique Characterization of Transverse In-line Photonic Crystal Fiber
<b>P012</b>	<i>Peter Farrell</i>	An optimization Problem Arising in Optical Fibre Sensor Design
<b>P013</b>	<i>Eric Magi</i>	Control Scheme for Polarisation Induced Signal Fading in Multiplexed Optical Fibre Interferometric Sensors
<b>P014</b>	<i>Andrei Rode</i>	3-D Memory Bits Recording and Reading with Femtosecond Laser
<b>P015</b>	<i>Brant Gibson</i>	Thin-Film Palladium Coatings on Single-Mode Fibre Tapers
<b>P016</b>	<i>Kazimir Kolossovski</i>	Optimised Time-Frequency Discrete Layer-Peeling Algorithm to Reconstruct Fibre Bragg Gratings
<b>P017</b>	<i>Kazimir Kolossovski</i>	Iterative Clipping of Fibre Bragg Grating Designs
<b>P018</b>	<i>Teddy Kurniawan</i>	An Optimized Performance of Subcarrier Multiplexing Within Analogue Optical Link
<b>P019</b>	<i>Weitang Li</i>	Dry Etching of SiO <sub>2</sub> Thin Films for Optical Waveguide Fabrication
<b>P020</b>	<i>Stuart Jackson</i>	The Effect of Pump Configuration on the Operation of a Hybrid Raman Fibre Amplifier and Laser Pumped with High Power Nd <sup>3+</sup> -Doped Fibre Laser
<b>P021</b>	<i>Arthur Lowery</i>	Effect of Laser Intensity and Frequency Noise on an Optical Signal Processing Circuit
<b>P022</b>	<i>Arthur Lowery</i>	Efficient Simulation of Microwave Photonic Systems
<b>P023</b>	<i>Arthur Lowery</i>	Efficient Simulation of Electronic Dispersion Compensation for 10 Gbps Single-Mode Links
<b>P025</b>	<i>Joe Mok</i>	Suppressing Phase Ripple Induced System Penalties Using All-Optical Regenerators
<b>P026</b>	<i>Arnan Mitchell</i>	Design of Antireflection Coatings for CWDM by Numerical Optimization
<b>P027</b>	<i>Simon Fleming</i>	Doping of Silica Optical Fibres by Vapour Deposition of Metalorganic and Chloride Precursors
<b>P028</b>	<i>Mingya Shen</i>	Serrodyne Optical Frequency Translation Using Photonic Generated Sawtooth Waveform
<b>P029</b>	<i>Alexei Tikhomirov</i>	Characterisation of DFB Fibre Laser Gratings Using Heat-Scan Method
<b>P030</b>	<i>Adrian Ankiewicz</i>	Coupling Between Multiple Defects in Photonic Band Gap Structures with Variable Defect Parameters
<b>P031</b>	<i>Steve Winnall</i>	L-band Dispersion Compensation of Uncooled Coaxial Lasers for Coarse WDM Applications
<b>P032</b>	<i>Jin Zhe</i>	An Improved Approach to Design Silica Multimode Interference Couplers
<b>P033</b>	<i>Ruth Jarvis</i>	Characterisation of Chalcogenide Glass for Magneto-optic Waveguides

## AOS Poster Sessions

Posters listed by Presenting Author

<b>P01</b>	<i>Annabel Alexander</i>	Development of a Quantum Memory
<b>P02</b>	<i>Ara Asatryan</i>	Universal Conductance Fluctuations of Photons in Disordered Photonic Crystals
<b>P03</b>	<i>Andrew Chalmers</i>	The Manukau Goniospectrophotometer
<b>P04</b>	<i>Vince Vella</i>	Predictions of Temperature Independence in Fluorescence Lifetime of Praseodymium-Doped Fluoride Glass
<b>P05</b>	<i>Rohan Dalton</i>	Entanglement Concentration For Spatial Qutrits
<b>P06</b>	<i>Anton Desyatnikov</i>	Composite Bound States of Self-Trapped Laser Beams
<b>P07</b>	<i>Alanna Fernades</i>	Enhanced Particle Removal via Reduced Laser Beam Dimensions
<b>P09</b>	<i>Djenan Ganic</i>	Determination of Trapping Force Exerted on a Microparticle—Vectorial Diffraction Approach
<b>P010</b>	<i>Dmitri Gramotnev</i>	Scattering of Waves at Extreme Angles in Planar Holographic Gratings in Uniaxial Crystals
<b>P011</b>	<i>Dmitri Gramotnev</i>	Geometrical Optics Approach for the Analysis of One-Dimensional Plasmons in Metallic Wedges and Grooves
<b>P024</b>	<i>Dmitri Gramotnev</i>	Single-Mode Wedge Channel Polariton Sub-Wavelength Waveguides
<b>P012</b>	<i>Katie Green</i>	Fabrication of Super-Smooth Ring Laser Gyro Mirrors
<b>P013</b>	<i>Mark Gross</i>	Ion Beam Sputtered Low-loss Optical Coatings for Ultra-high Reflectance Mirrors
<b>P014</b>	<i>Joanne Harrison</i>	Nitrogen-Vacancy Centre in Diamond for Information Processing
<b>P015</b>	<i>John Holdsworth</i>	Concentration Quenching of Fluorescence in Heavily-Doped Pr <sup>3+</sup> : ZBAN Glasses
<b>P016</b>	<i>Smitha Kuriakose</i>	The Effect of Fluorescence Intermittency on Ensemble Fluorescence of Semiconductor Nanocrystals: Bleaching Due to Blinking
<b>P018</b>	<i>Smitha Kuriakose</i>	Near Field Scattering by a Microscopic Dielectric Particle in the Vicinity of an Interface—A Finite Difference Time Domain (FDTD) Model
<b>P017</b>	<i>Gregor Knoener</i>	Microfluid Vortices Probed by Optical Tweezers
<b>P019</b>	<i>Wenn Jing Lai</i>	660th-1230th Order of Rational Harmonic Detuning in a Fibre Ring Laser
<b>P020</b>	<i>Jevon Longdell</i>	Two Qubit Operations Using Optically Active Centres in Solids
<b>P021</b>	<i>Craig McCarthy</i>	Fabrication of Miniature Optical Components for a High-Precision Space Interferometer
<b>P022</b>	<i>Richard Mildren</i>	Efficient Multiwavelength Output in the Green to Red from a $\text{kgd}(\text{WO}_4)_2$ Raman Laser
<b>P023</b>	<i>Hamish Ogilvy</i>	Stable, Gain-switched, Multi-kilohertz Alexandrite Laser, Pumped Using 671nm Output from a Frequency Doubled ND:GdVO <sub>4</sub> Laser
<b>P025</b>	<i>Jan Burke</i>	Absolute Calibration of the Entire Reference Surface in a Fizeau Interferometer
<b>P026</b>	<i>Katrina Seet</i>	Holographic Digital Fourier Microscopy (DFM) for Selective Imaging of Biological Tissue
<b>P027</b>	<i>Matthew Sellars</i>	Growing a Scalable Quantum Computer
<b>P028</b>	<i>Paul Steinvurzel</i>	Long Wavelength Transmission in ARROW-PCF Waveguides
<b>P029</b>	<i>Amelie Verhaege</i>	Optical Fibre Probe for Microdialysis
<b>P030</b>	<i>Julien Vintrou</i>	Theoretical and Experimental Study of Aspects of the Signal-to-Noise Ratio of Spectral-Domain Optical Coherence Tomography
<b>P031</b>	<i>Till Weinhold</i>	Generation of Multiphoton NOON-States



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