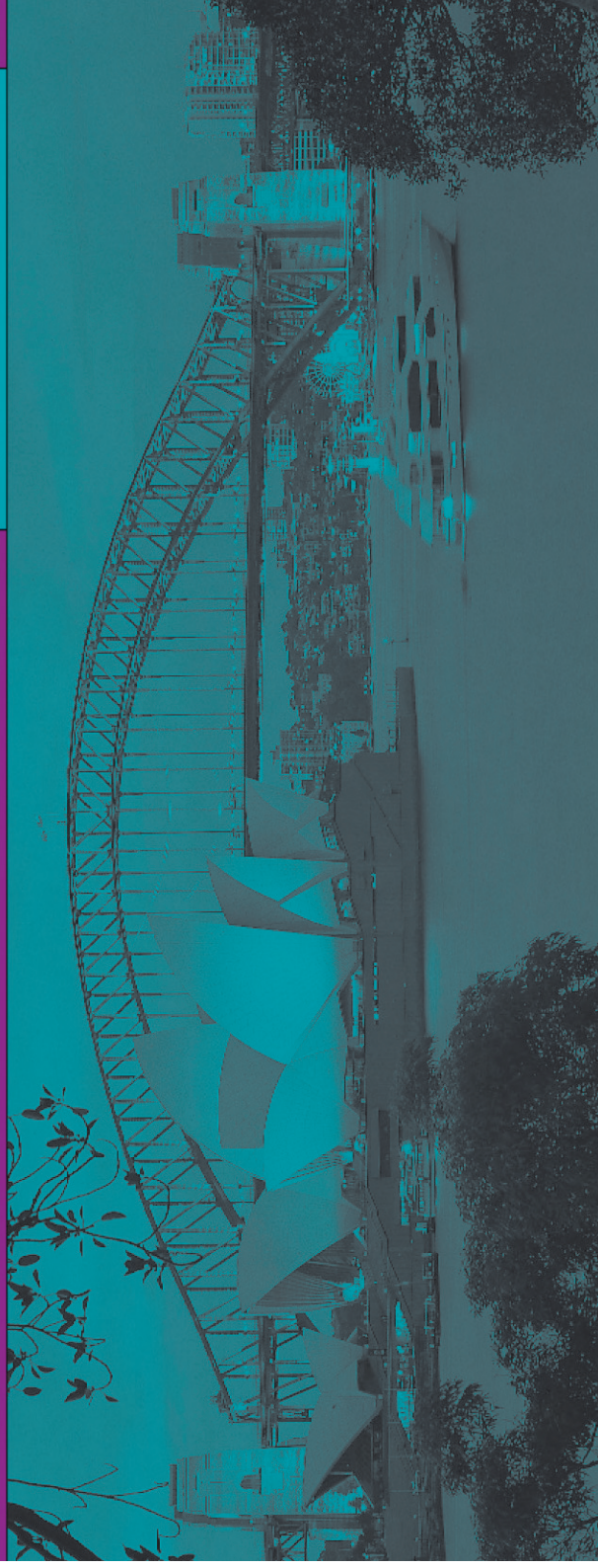


Conference CD-ROM



BGPP/ACOFT 2005

4-8 July 2005 Sydney Australia



Speaker & Title Index

DAY 1 MONDAY 4 JULY 2005

PLENARY SESSION

0930 - 1030		Ballroom 2&3
<i>Session Chair:</i>	<i>TBC</i>	
0930 - 1000	Introductory Remarks, General Chairs	
1000 - 1030	The Demands of Photonic Networking Peter Magill	
1030 - 1100	<i>Morning Tea</i>	<i>Ballroom 1</i>

PLENARY SESSION

1100 - 1230		Ballroom 2&3
<i>Session Chair:</i>	<i>TBC</i>	
1100 - 1145	Acousto-Optic Long Period Fiber Gratings: Science, Engineering and Business Byoung Yoon Kim	
1145 - 1230	Optically-Induced Lattices as Nonlinear Photonic Crystals Yuri Kivshar	
1230 - 1400	<i>Lunch Break</i>	

CONCURRENT SESSION ONE

BGPP: Grating Devices (Applications)		Ballroom 2
1400 - 1530		
<i>Session Chair:</i>	<i>Morten Ibsen</i>	
1400 - 1430	FBG-based Optical Correlators for Networking Functions Alan Willner	
1430 - 1445	Novel Dual-Direction Gires-Tournois Etalon Based on Single Complex Fiber Bragg Grating Xuewen Shu	
1445 - 1500	All-Fiber Periodic Filter With Widely Tunable Frequency Spacing Julien Magne	

1500 - 1515 **Wavelength tunable Fiber Ring Laser Based on an All-Fiber Acousto-Optic Tunable Filter**
Pedram Dashti

1515 - 1530 **UV written 1x8 Optical Splitters**
Massimo Olivero

ACOFT: Manufacturing

Ballroom 3

1400 - 1530

Session Chair: *TBC*

1400 - 1430 **To Be Confirmed**
Stuart Jackson

1430 - 1445 **Aluminium Loss in Solution-Doped Silica Optical Fibres**
Feng Tang

1445 - 1500 **Computational Fluid Dynamics and the MCVD Process**
Catherine Cheung

1500 - 1515 **A Polyamide-Based Electrically Conductive Coating For Poling Log Lengths of Fibre**
Kenneth Lee

1515 - 1530 **Novel Technique For Fabrication of Extra-Long FBGs**
Zourab Brodzeli

1530 - 1600 Afternoon Tea

Ballroom 1

CONCURRENT SESSION TWO

BGPP: Poling (Nonlinear)

Ballroom 2

1600 - 1730

Session Chair: *Valerio Pruneri*

1600 - 1630 **The Achievements of the GLAMOROUS Project on Poling**
Walter Margulis

1630 - 1645 **High Second Order Susceptibility in Thermally Poled Chalcogenide Glasses**
Hassina Zeghlache

1645 - 1700 **Glass Waveguides for Periodic Poling**
Jacob Fage-Pedersen

1700 - 1715 **Direct Laser Ablation Technique for Fabrication of Optical Waveguides in Amorphous Materials and Nonlinear Crystals**
Lutfu Celebi Ozcan

1715 - 1730	Time Evolution of the Nonlinear Profile during Thermal Annealing of Poled Infrasil Samples Yves Quiquempois
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ACOFT: Novel Photonic Devices

Ballroom 3

1600 - 1730

Session Chair: TBC

1600 - 1615	Efficient Couplers for Photonic Crystals Waveguides Ross McPherdran
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1615 - 1630	Application of Optical Trapping to Micro-Photonics Peter Domachuk
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1630 - 1645	Forward cladding modes coupling assisted by tilted grating with large tilting angle Kaiming Zhou
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1645 - 1700	Characterisation of Fiber Bragg Grating Growth using Optical Frequency Domain Reflectometry and Layer-Peeling Gordon Flockhart
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1700 - 1715	All-Optical Pulse Regeneration in Chalcogenide Waveguides Using an Integrated Bragg Grating Filter V Ta'eed
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1715 - 1730	All-Fibre Polarisation Control Walter Margulis
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1730 – 2030	BGPP & ACOFT POSTER SESSION
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Ballroom 1

1800 - 1930	Welcome Reception
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Foyer

DAY 2 TUESDAY 5 JULY

CONCURRENT SESSION THREE

BGPP: Grating Based Sensors (Applications)

Ballroom 2

0830 - 1000

Session Chair: Pierre-Yves Fonjallaz

0830 - 0900 Advanced In-fibre Grating Optical Sensors and Applications

Ian Bennion

0900 - 0915 Implementation of High-Sensitivity Optical Biosensors using Lightly Etched Dual-Peak LPGs

Xianfeng Chen

0915 - 0930 Distributed Sensing of Diametric Load using Optical Low Coherence Reflectometry and Fiber Bragg Grating

Hans Georg Limberger

0930 - 0945 Three Parameter Sensing With a Single Bragg Grating In Non-Birefringent Fiber

Claire Rollinson

0945 - 1000 Direct Accurate Determination of the Spatial Refractive Index Profile in Bragg Gratings

Zhaowei Zhang

ACOPT: Nonlinear

Ballroom 3

0830 - 1000

Session Chair: TBC

0830 - 0900 Intermediate Asymptotic Evolution and Photonic Bandgap Fiber Compression of Optical Solitons

John Dudley

0900 - 0915 Experimental Demonstration of a Compressing Nonlinear Amplifying Loop Mirror

Wonkeun Chang

0915 - 0930 Dynamical Model For Pulsating Solitons In Mode-locked Lasers

Eduard Tsoy

0930 - 0945 An All-Optical Regenerator with Intrinsic BER Improvement

Martin Rochette

0945 - 1000 Chaotic and Regular Pulsations of Solitons in Fibre Lasers

Nail Akhmediev

CONCURRENT SESSION FOUR**BGPP: Grating Characterisation and Design (Properties)**

Ballroom 2

1030 - 1200*Session Chair:* Leon Poladian**1030 - 1100 Inverse Scattering For One-Dimensional Periodic Optical Structures and Application To Design and Characterisation**

Johannes Skaar

1100 - 1115 Bragg Waveguides and Gratings with Negative Index Materials

Bertil Nistad

1115 - 1130 UV Writing of Accurately Chirped FBGs using in-situ Optical Frequency Domain Reflectometry and Inverse Scattering

Sven Kieckbusch

1130 - 1145 Full Characterisation of the Temporal Response of Phase-Shifted SSFBGs Using Electroabsorption Modulator Based Frequency Resolved Optical Gating

Chun Tian

1145 - 1200 Slow Light in Moire Fibre Bragg Gratings

Joe Mok

ACOF: Microstructured Fibres 1

Ballroom 3

1030 - 1200*Session Chair:* TBC**1030 - 1100 Soft Glass Microstructured Fibres: Fundamentals and New Opportunities for Nonlinear Fibre Devices.**

Tanya Monro

1100 - 1115 Continuum Generation in Silica Microstructured Fibre using a Dual-Wavelength Q-switched Laser in the Normal Dispersion Regime

Matthew Fellow

1115 - 1130 Diffraction in Air-Clad Fibres

Mattias Aslund

1130 - 1145 Directional Coupling in a Twin-core Photonic Bandgap Fiber

Jesper Laegsgaard

1145 - 1200 Exact Modelling of the Long Wavelength Properties of the Fundamental Mode in Microstructured Optical Fibres

Lindsay Botten

1200 - 1330 *Lunch Break*

CONCURRENT SESSION FIVE

BGPP: Physical and Chemical Properties of UV-Induced Effects (Photosensitivity)

Ballroom 2

1330 - 1500

Session Chair: *Martin Kristensen*

1330 -1400 **Ground and Excited State Properties of Intrinsic and Extrinsic Point Defects in Silica from Ab Initio Calculations**

Gianfranco Pacchioni

1400 - 1415 **Solid-state Autocatalysis and Oscillatory Reactions in Thermally Processed Hydrogen Loaded Germanosilicate Fibres**

John Canning

1415 - 1430 **VUV and IR Absorption Spectra in OH-Flooded Standard Germanosilicate Preform Plates**

Matthieu Lancry

1430 - 1445 **Effect of Hot Isostatic Press on Photosensitivity in Silica-Based Waveguides on Si**

Makoto Abe

1445 - 1500 **Study of Photosensitivity as a Function of Polarization for UV-Light in Optical Fibre using Blue Luminescence**

Henrik Rokkjaer Sorensen

ACOF: Microstructured Fibres 2

Ballroom 3

1330 - 1500

Session Chair: *TBC*

1330 - 1345 **Experimental and Theoretical Analysis of the Fundamental Mode "Cutoff" in Photonic Crystal Fibre Tapers**

Hong Nguyen

1345 - 1400 **Effects of Material Loss in Anti-resonant Fiber Waveguides**

Paul Steinvurzel

1400 - 1415 **Low Bend-loss Micro-coil Loops in Micro-structured Fibre Photonic Wires**

Eric Magi

1415 -1430 **Measuring Chromatic Dispersion In Photonic Crystal Fibres Based on Modulation Instability**

Kwan Leung Gordon Wong

1430 - 1445 **Suspended Core Microstructured Polymer Optical Fibre: Connecting to Reality**

Richard Lwin

1445 - 1500 **Fabrication of Air-Silica Structured Fibres for Advanced SNOM Probes**
John Canning

1500 - 1530 Afternoon Tea Ballroom 1

CONCURRENT SESSION SIX

BGPP: Microstructured Devices and Large Nonlinear Effects (Nonlinear) Ballroom 2

1530 - 1700

Session Chair: *Walter Margulis*

1530 - 1600 **Microstructured Ferroelectrics and Semiconductors for Quasi-Phasematched Nonlinear Optics**

Martin Fejer

1600 - 1615 **Soliton Compression and Pulse Train Generation from Microchip Q-switched Pulses in a Fibre Grating**

Joe Mok

1615 - 1630 **Effect of Bragg Gratings on Continuum Generation in Highly Nonlinear Fibers**

Paul Westbrook

1630 - 1645 **Formation of Photonic Circuits with Nonlinear Crystals by Atomic laser Heating in Glass Materials**

Takumi Fujiwara

1645 - 1700 **A New Age for Poling: The Modification of Optical Properties of Meta-glass Nanocomposites**

Olivier Deparis

ACOPT: Sensors Ballroom 3

1530 - 1700

Session Chair: *TBC*

1530 - 1545 **Simultaneous Measurement of Refractive Index and Temperature Using Ultra-Long-Period Fiber Gratings**

Tao Zhu

1545 - 1600 **Femto-strain Fibre Sensor by Laser Frequency Locking to a Passive Bragg Fabry-Perot**

Jong Chow

1600 - 1615 **Optical Chemsensor Based on Different mode Response of Tilted Bragg Grating in Multimode Fiber**

Xianfeng Chen

1615 - 1630	Comparison of Multichannel Couplers for Evanescent Sensing of Refractive Index Graham Town
1630 - 1645	Fibre Bragg Grating in Fresnel Fibre with Temperature and Strain Characterisation Nathaniel Groothoff
1645 - 1700	Use of FBG Optical Sensors for Structural Health Monitoring: Practical Application Tommy Chan

DAY 3 WEDNESDAY 6 JULY 2005

CONCURRENT SESSION SEVEN

BGPP: Grating Devices 2 (Applications)

Ballroom 2

0830 - 1030

Session Chair: Dmitri Stepanov

0830 - 0900 **Fibre Bragg Grating Microwave Photonic Signal Processors**
Robert Minasian

0900 - 0915 **Ready-to-use Silica Slab Waveguides for Pretreatmentless UV-Fabrication of Customised Planar Lightwave Circuits**
Frank Knappe

0915 - 0930 **Waveguide Patterning by Directly UV-Written Trenches**
Frank Knappe

0930 - 0945 **Er:Yb Fiber Grating Laser Based on Femtosecond Laser Inscription Technique**
Yicheng Lai

0945 - 1000 **Buried X-Shaped Channel Waveguides Directly UV Written in a Multicomponent Silicate Glass**
Frank Knappe

1000 - 1015 **Rare Earth Distributed Feedback Photonic Crystal Fibre (DFB-PCF) Laser**
Nathaniel Groothoff

1015 - 1030 **Novel Tunable On-Fibre Polymeric Phase Mask for Writing Fibre Bragg Gratings**
Raman Kashyap

ACOPT: Systems

Ballroom 3

0830 - 1030*Session Chair:* TBC**0830 - 0900 To Be Confirmed**

Ben Eggleton

0900 - 0915 Chalcogenide Fibre Based All-Optical Regenerator

Libin Fu

0915 - 0930 First Order Polarisation-Mode-Dispersion Monitoring without Fast Electronics

Justin Blows

0930 - 0945 Comparison and Implications of PMD-Induced System Penalty Models

Kate Cornick

0945 - 1000 Electronically Tunable Vector Sum Phase Shifter using Acousto-Optic Polarisation Coupler

Lam Bui

1000 - 1015 Investigation on Nonlinear Effect in High Power Single-Sideband Modulated Radio-on-Fiber Links

Pei Chin Won

1015 - 1030 An All-Fiber Balanced Coupler

William Shieh

*1030 - 1100**Morning Tea**Ballroom 1*

CONCURRENT SESSION EIGHT**BGPP: Novel Fibre and Grating Properties (Properties)**

Ballroom 2

1100 - 1215*Session Chair:* Henry P. Lee**1100 - 1115 Phase-Shifted Resonance Bragg Gratings in Chalcogenide Rib Waveguides**

Mehrdad Shokooh-Saremi

1115 - 1130 Practical Hydrogen Loading of Air Silica Fibres

Henrik Rokkjaer Sorensen

1130 - 1145 Sensitive Optical Response of Long Period Fiber Gratings to Nm-thick Ionic Self-Assembled Multilayers

Zhiyong Wang

1145 - 1200	Annealing of UV-Induced Birefringence in Hydrogen Loaded Germanosilicate Fibres John Canning
1200 - 1215	On the Polarisation Dependence of Microbend Gratings: Relation to and Control with Fiber Design. Siddharth Ramachandran

ACOPT: Lasers and Amplifiers 1

Ballroom 3

1100 - 1215

Session Chair: TBC

1100 - 1115	Gain-Switched Tm³⁺-doped Double-Clad Silica Fiber Laser Yue Zhu Wang
1115 - 1130	85W Cladding-Pumped Tm³⁺-doped Fibre Laser Gavin Frith
1130 - 1145	Highly Efficient and Wavelength-Tunable Single-Transverse-Mode 2.1-mm Ho³⁺ Silica Fibre Laser Yahua Li
1145 - 1200	Cooperation Luminescence and absorption in Ytterbium Doped Aluminosilicate Glass Optical Fibres and Preforms Tom Ryan
1200 - 1215	An Optical Parametric Amplifier Based Simultaneous In-Band OSNR and Chromatic Dispersion Monitor Trina Ng

1215 - 1400 Lunch Break

CONCURRENT SESSION NINE

BGPP: Methods to Enhance Light-induced Effects (Photosensitivity)

Ballroom 2

1400 - 1530

Session Chair: John Canning

1400 - 1430	Self-Alignment of Ge Nano-Particles in Thermally Stabilised Grating in Waveguide Junji Nishii
1430 - 1445	Amazing Periodic Nano-Structures in Glass Irradiated by Femtosecond Light Pulses Peter Kazansky
1445 - 1500	Intensity Dependence of the Index Modulation Growth Rate of Type I-IR Ultrafast Fiber Bragg Gratings Stephen Mihailov

1500 - 1515	Comparison of Various Sensitisation Method Properties through Inscription of Bragg Gratings in H₂-Loaded, Hypersensitised or OH-Flooded Standard Germanosilicate Fibers Matthieu Lancry
1515 - 1530	Discontinuities During UV Writing of Waveguides Mikael Svalgaard

ACOPT: Planar Waveguide Devices

Ballroom 3

1400 - 1530

Session Chair: TBC

1400 - 1415	Superprism Effect of One-Dimensional Photonic Crystal Embedded in Slab Waveguide Kazuaki Oya
1415 - 1430	Strong Self-Phase Modulation in Low Loss As₂S₃ Waveguide Yinlan Ruan
1430 - 1445	Topographic Study of a Direct UV Patterned Planar Waveguide with Negative Index Change Bertrand Pommellec
1445 - 1500	Fabrication of Single-Mode Polymer Rib Waveguides by Soft-Imprinting Gorgi Kostovski
1500 - 1515	A New Method for Improvement of Frequency Response of Arrayed Waveguide Grating Devices Alireza Gholipour
1515 - 1530	Optical Losses in Silica Rib Waveguides Deposited by ARE-PECVD on Silicon Substrate Douglas Bulla

1530 - 1600 *Afternoon Tea*

Ballroom 1

CONCURRENT SESSION TEN

BGPP: Ultrafast Grating Fabrication (Properties)

Ballroom 2

1600 - 1730

Session Chair: Paul Westbrook

1600 - 1630	Ultrafast Laser Fabrication of Bragg Grating Devices Stephen Mihailov
1630 - 1645	Fabrication of Highly Reflective Bragg Gratings through Fiber Coating by Infrared Femtosecond Laser Amos Martinez

1645 - 1700	Fibre Bragg Gratings Written in Pure Silica Photonic Crystals Fires with ultraviolet Femtosecond Laser Pulses Libin Fu
1700 - 1715	UV Written Compact Broadband Optical Couplers Massimo Olivero

ACOF: Lasers and Amplifiers 2

Ballroom 3

1600 - 1730

Session Chair: TBC

1600 - 1615	Effect of Pump Depletion on Pulsed Output From Single-Pump Fibre Optical Parametric Amplifiers Ross McKerracher
1615 - 1630	Nanosecond Optical Parametric Amplifiers: Pump Depletion and Transverse Effects Celine Durniak
1630 - 1645	Highly Efficient 3rd-order Cascaded Raman Fibre Laser that uses Broadband Pumping Yucheng Zhao
1645 - 1700	Energy Transfer Processes In Tm³⁺ Doped Silica Fibres Relevant to An S-Band Amplifier David Simpson
1700 - 1715	Multi-Wavelength Generation in a DBR Fiber Laser Shilpa Pradhan
1715 - 1730	Fiber Bragg Grating Cavity Based Spacing-Tunable Multi-Wavelength Raman Fibre Laser Young-Geun Han

POSTER PRESENTATIONS

BGPP POSTERS

Yunjiang Rao	50km Fiber Bragg Grating Sensor System With Bi-directional Raman Amplification and Dual EDF Based Configuration
Yosia	Double Nonlinear Switching Thresholds Characteristics For The Grating In The Cubic-Quintic Medium
Naoki Iwafuchi	Transparent Nano-Crystallized Glass Fibres with Second-Order Optical Nonlinearity
Kin Seng Chiang	UV-Written Buried Polymer Long-Period Waveguide Gratings
Adrian L.G. Carter	Optical Fiber Having a High Temperature Insensitivity and Centered on A Selected Temperature Range
Andrew Michie	Voltage Sensing using Thermally Poled Silica Fibre

Martin Rochette	An Adjustable Bandwidth Dispersionless FBG Filter for Reconfigurable Optical Subsystems
Kenneth Lee	A Conductive Fibre Coating for Poling Arbitrary Fibre Lengths
Cicero Martelli	Thermal and Mechanical Properties of Photonic Crystal Fibre Bragg Gratings
Amir Rosenthal	Theoretical Reconstruction of a High Reflection Fiber Bragg Grating from a Noisy Reflection Spectrum
Henrik Rokkjær Sørensen	Hypersensitisation using 266nm Laser Light
Amir Rosenthal	Reconstruction of Long-Period Fiber Gratings from their Core-to-Core Transmission Spectrum
Henrik Rokkjær Sørensen	Thermal Hypersensitisation and Corresponding Grating Evolution in Ge-doped Optical Fibre
Olivier Deparis	Relationship Between Group Delay and Stokes Parameters in Fiber Bragg Gratings
M. W. Haarkstad	Scaling Properties of Acousto-Optic Long Period Gratings in Photonic Crystal Fibers
Dongsoo Lee	Analysis of Polarization-Dependent Mode Coupling in Microstructured Air-Silica Fiber
Kaiming Zhou	Broad Bandwidth, High Extinction Ratio In-Fiber Polarizers Based on Radiation Mode Coupling using 45° Tilted Fiber Bragg Gratings
Raphael Blum	X-Ray Poling of Silica Glass : A New Way of Poling
Bertrand Poumellec	Display of the Electronic Insulating Properties by Secondary Electron Emission
Hans Georg Limberger	Annealing-Induced Stress Changes in UV-Irradiated Germanium-Doped Fibers
Alexandre Kudlinski	Evidence of $\pm(2)$ Profile Modification During Thermal Poling of Silica Glass: Experiments and Simulations
Jacques Albert	UV-Written Bragg Gratings in Silver Ion-Exchanged Phosphate Glass Channel Waveguides
Manfred Rothhardt	Large Fiber Bragg Grating Arrays for Monitoring Applications Made by Drawing Tower Inscription
Yves Quiquempois	Microscopic Mechanisms Occurring During and After Thermal Poling
Christopher Smelser	Type I-IR and Type II-IR fiber Bragg Grating Formation with an Ultrafast Infrared Source and a Phase Mask
Hagen Renner	Phase and Amplitude Relations in the Reflection Spectra and Synthesis of Symmetric Bragg Gratings
Junki Kim	Inscription of Circular Diffraction Pattern using All-fiber Lithographic Technology on Azo Polymer
Xinyong Dong	Bandwidth-Tunable Filter and Spacing-Tunable Comb Filter Based on Chirp Tuning of FBGs
Claire Davis	High-Density Bragg Grating Arrays Applied to a Strain Survey of an F/A-18 Stabilator Spindle
Young-Geum Han	Phase-Shifted Fiber Bragg Gratings Based Tunable Multiwavelength Raman Fiber Laser
Raman Kashyap	Light Scattering from Sidetap Fiber Bragg Gratings
Honglin An	Effect Of Poling Voltage On The Profile Of Second-Order Nonlinearity In Fused Silica
Mikael Svalgaard	Accurate Modelling of UV Written Waveguide Components
Henry P. Lee	High Efficiency Temperature-Controlled Loss-Tunable Long Period Grating on Cladding-Etched Fibers
Philippe Giaccari	Five-Channel Dispersion Compensators Written in Channel Waveguides

Vladimir Shandarov	Observation of Transient Bright Gap Solitons in Photorefractive Photonic Lattices in Lithium Niobate
Anbhawa Nand	Determination of the Position of a Localised Heat Source within a Chirped Fiber Bragg Grating
Sergei Vasiliev	Accelerated Diffusion of Molecular Hydrogen in Optical Fibers Loaded at 150-170 MPa
Olivier Deparis	How To Correlate The Spectral Evolution Of Tilted Bragg Gratings With Respect To The External Refractive Index
Hiroaki Nishiyama	Thermally Stabilized Photoinduced Bragg Gratings with Large Refractive Index Modulation
Giorgio Nosenzo	Fibre Bragg Grating Based Structural Monitoring System for Historic Bridge
Stephen Mihailov	High Order Spectral Response Characteristics of Fiber Bragg Gratings made with Ultrafast IR Radiation and Phase Mask
Giancarlo Righini	UV-Written Components in Sputtered Er ³⁺ /Yb ³⁺ -Doped SiO ₂ -GeO ₂ Waveguides

ACOPT POSTERS

Xia Yu	Properties of Interstitial Hole-assistant Microstructured Optical Fibers
Weitang Li	Reduction of the Sidewall Roughness of Silica Optical Waveguides
Yahua Li	High-Power Near-Infrared Raman Fibre Lasers Using Phosphosilicate and Germanosilicate Fibres
Tom White	Very Low Fresnel Losses in Rod-Type Photonic Crystals
Min Yan	Investigation of Practical Air-silica Bragg Fiber
Shicheng Xue	Hole Deformation Behaviour in Drawing Microstructured Optical Fibres
Congji Zha	Synthesis of Photosensitive Fluorinated Titania-Doped Hybrid Glassy Polymers for Planar Optical Applications
Li Xia	Flexible Chirp Control Using The Linearly Inherent Chirped Phase Mask With The Equivalent Chirp Design
John Canning	Non-optical applications of air-structured canes and fibres: microfluidic pressure sensors
Cicero Martelli	Light Guidance Through a Water-Core Fresnel Fiber
John Canning	The role of diffraction in influencing the short wavelength loss edge of photonic crystal fibres
Cicero Martelli	Lensing in Fresnel Fiber
Mir Mojtaba Mirsalehi	Analysis of Femtosecond Optical Pulse Propagation in One-Dimensional Nonlinear Photonic Crystals Using Finite-Difference Time-Domain Method
Ming Tang	HNLFF Enhanced Dual-Wavelength Fiber Mode-locked Laser At 10-GHz With 0.8 nm Wavelength Spacing
Kazimir Kolossovski	Adaptive Algorithm For Iterative Design Of Complex Fibre Bragg Gratings
Mattias Aslund	Transmission Properties Of High-NA Air-Clad Optical Fibre
Kenneth Lee	The Effects of Voltage and Temperature on Thermal Poling of Optical Fibre
Shun Yee Liu	Pulsed Ultrasonic Signal Measurement Using a Highly Sensitive Fibre Laser Hydrophone
Betty Kouskousis	Comparison Between The Modelled And Measured Refractive Index Modulation Within A FBG
Allan Wong	Improved demodulation algorithm for spatial-frequency multiplexed fibre-optic Fizeau strain sensor system
Ian Leung	Intensity Modulated Acoustic Sensing Using A Distributed Feedback Fibre Laser

Philip Hambley	Progress Towards Fabricating Microstructured Polymer Optical Fibre Tapers
Andrew Tio	Multi-Wavelength Pulsed Raman Amplifier
Vladimir Kruglov	Exact Asymptotic Parabolic Solution of the Generalized NLSE with Distributed Parameters
Mei Li	Improved Spectral Monitoring For Fibre Optic Transmission Systems
Emir Karamehmedovic	Field Test of Strain Fluctuation in the Experimental Reactive Powder Concrete Bridge at Shepherd's Creek
Leigh Palmer	Improved Selection of Paddle Phase Retardations in Single Polarisation Controller PMD Emulators
Xia Yu	Compact Strain Sensor based on Three-core Microstructured Fiber
Daniel Kitcher	Phase Errors And Ripple In Linearly Chirped FBGs For Temperature Profile Measurement By Cross-Correlation
Judith Dawes	Tilted Fibre Gratings Written Using a Subpicosecond Pulsed Laser
Darren Freeman	Rapid Prototyping of Photonic Crystal Membranes in a Chalcogenide Glass using Focused Ion Beam Milling
Michael Aquilina	An Automatically Switched Optical Network Emulator
Wenn Jing Lai	Stability Analysis for Gaussian Modulating Mode-Locked Laser Systems
Honglin An	Thermal Poling Induced Structural Changes In Silica Glass And Optical Fibers
Chia-Yin Che	Inverse Signal Processing for Low Cost Optical Power Spectrum Monitoring