Conference CD-ROM

BGPP/ACOFT 2005
4-8 July 2005 Sydney Australia
# Speaker & Title Index

**DAY 1 MONDAY 4 JULY 2005**

## PLENARY SESSION

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| 0930 - 1030 | Session Chair: TBC  
Introductory Remarks, General Chairs |
| 1000 - 1030 | The Demands of Photonic Networking  
Peter Magill |
| 1030 - 1100 | Morning Tea  
Ballroom 1 |

## PLENARY SESSION

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| 1100 - 1230 | Session Chair: TBC  
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 | Lunch Break  
Ballroom 2 |

## CONCURRENT SESSION ONE

**BGPP: Grating Devices (Applications)**

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| 1400 - 1530 | Session Chair: Morten Ibsen  
FBG-based Optical Correlators for Networking Functions  
Alan Willner  
Novel Dual-Direction Gires-Tournois Etalon Based on Single Complex Fiber Bragg Grating  
Xuewen Shu  
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  Ballroom 2
BGPP: Poling (Nonlinear)
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

ACOFF: Novel Photonic Devices
1600 - 1730
Session Chair: TBC

1600 - 1615
Efficient Couplers for Photonic Crystals Waveguides
Ross McPherdran

1615 - 1630
Application of Optical Trapping to Micro-Photonics
Peter Domachuk

1630 - 1645
Forward cladding modes coupling assisted by tilted grating with large tilting angle
Kaiming Zhou

1645 - 1700
Characterisation of Fiber Bragg Grating Growth using Optical Frequency Domain Reflectometry and Layer-Peeling
Gordon Flockhart

1700 - 1715
All-Optical Pulse Regeneration in Chalcogenide Waveguides Using an Integrated Bragg Grating Filter
V Ta'eed

1715 - 1730
All-Fibre Polarisation Control
Walter Margulis

1730 – 2030
BGPP & ACOFT POSTER SESSION

1800 - 1930
Welcome Reception

Ballroom 3
Ballroom 1
Foyer
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**BGPP: Grating Based Sensors (Applications)**  
Ballroom 2

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<td>Ian Bennion</td>
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<td>Implementation of High-Sensitivity Optical Biosensors using Lightly Etched Dual-Peak LPGs</td>
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**BGPP: Grating Characterisation and Design (Properties)**  
**Ballroom 2**

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<td>Bragg Waveguides and Gratings with Negative Index Materials</td>
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**ACOFT: Microstructured Fibres 1**  
**Ballroom 3**

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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

ACOFT: Microstructured Fibres 2  
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 Leug Gordon Wong  
1430 - 1445  
**Suspended Core Microstructured Polymer Optical Fibre: Connecting to Reality**  
Richard Lwin
### CONCURRENT SESSION SIX

**BGPP: Microstructured Devices and Large Nonlinear Effects (Nonlinear)**

**1530 - 1700**  
**Session Chair:** Walter Margulis

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### ACOFT: Sensors

**1530 - 1700**  
**Session Chair:** TBC

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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

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**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 UV0Written 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
ACOFT: Systems

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

CONCURRENT SESSION EIGHT

BGPP: Novel Fibre and Grating Properties (Properties)

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 Lonic Self-Assembled Multilayers
Zhiyong Wang
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**ACOFT: Lasers and Amplifiers 1**  
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<td>Gain-Switched Tm3+-doped Double-Clad Silica Fiber Laser</td>
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**1215 - 1400 Lunch Break**

**CONCURRENT SESSION NINE**

**BGPP: Methods to Enhance Light-induced Effects (Photosensitivity)**  
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<td>Amazing Periodic Nano-Structures in Glass Irradiated by Femtosecond Light Pulses</td>
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<td>Intensity Dependence of the Index Modulation Growth Rate of Type I-IR Ultrafast Fiber Bragg Gratings</td>
<td>Stephen Mihailov</td>
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Comparison of Various Sensitisation Method Properties through Inscription of Bragg Gratings in H2-Loaded, Hypersensitised or OH-Flooded Standard Germanosilicate Fibers
Matthieu Lancry

Discontinuities During UV Writing of Waveguides
Mikael Svalgaard

ACOFT: Planar Waveguide Devices

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 Poumellec

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

CONCURRENT SESSION TEN
BGPP: Ultrafast Grating Fabrication (Properties)

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
Fibre Bragg Gratings Written in Pure Silica Photonic Crystals Fires with ultraviolet Femtosecond Laser Pulses
Libin Fu

UV Written Compact Broadband Optical Couplers
Massimo Olivero

ACOFT: 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
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Multi-Wavelength Generation in a DBR Fiber Laser
Shilpa Pradhan
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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 Silia Fibre
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<td>Annealing-Induced Stress Changes in UV-Irradiated Germanium-Doped Fibers</td>
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