

IONS[®]-KOALA 2014

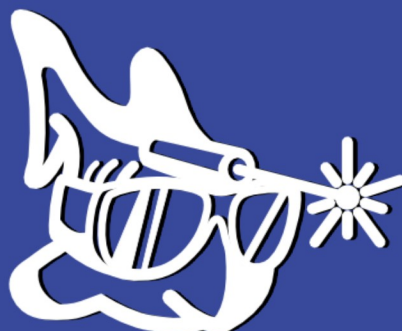
Industry Workshop Booklet



23-28 November
Adelaide, Australia



THE UNIVERSITY
of ADELAIDE



OSA[®]
The Optical Society

UofA OSA Student Chapter

The University of Adelaide OSA Student Chapter is proud to present,

Industry Workshop at IONS®-KOALA

Tuesday 25th November

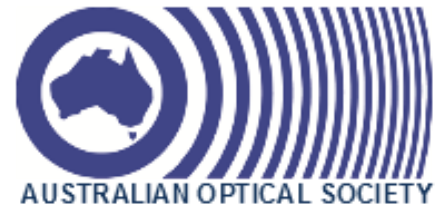
Presentations:

Australian Optical Society (AOS) - Peter Veitch

peter.veitch@adelaide.edu.au

optics.org.au

Advocacy for optical science & engineering • Conferences & networking • International Linkages • Awards



Centre of Excellence in Nanoscale Biophotonics (CNBP) - Mark Hutchinson

cnbp.wordpress.com

The Centre for Nanoscale BioPhotronics (CNBP) is an Australian Research Council funded Centre of Excellence funded from 2014-2022. This \$38 million collaboration engages researchers from the University of Adelaide, Macquarie University and RMIT University in partnership with 11 other International Institutions. The CNBP brings together physicists, chemists and biologists focused on a grand challenge – controlling nanoscale interactions between light and matter to create windows into the body.



Centre for Ultrahigh bandwidth Devices for Optical Systems (CUDOS) - Thomas Buettner

www.cudos.org.au

CUDOS is a collaborative research program between the University of Sydney, the Australian National University, Macquarie University, Swinburne University of Technology, Monash University, RMIT University, and the University of Technology, Sydney. CUDOS' mission is to lead photonics research, which creates a world's best on-chip photonic platform for information transfer and processing technologies.



**Institute for Photonics and Advanced Sensing
(IPAS) - Heike Ebendorff-Heidepriem**

ipasadelaide@adelaide.edu.au

www.adelaide.edu.au/ipas/

IPAS is one of 5 research institutes at the University of Adelaide. The mission of IPAS is to use the power of light to make the world a safer, healthier and wealthier place. We are doing this by building unique sensors which harness the powerful properties of light to learn about the environment: this might be inside the human body, inside an aircraft, inside a nuclear reactor, or mapping methane leaks. IPAS has a transdisciplinary vision which brings together physicists, biologists, material scientists and chemists.



Lastek - Jessica Mackintosh & Jeshua Graham

sales@lastek.com.au

www.lastek.com.au

Lastek Pty Ltd is an exclusive distributor for leading manufacturers in the photonics marketplace. Our product portfolio covers a vast range of applications, from spectroscopy to atom optics, microscopy to advanced manufacturing and many more. Being an established company in Australia and New Zealand for over 25 years, we bring a wealth of knowledge to the local photonics research and development sector. Our partnerships with other companies enable us to have the privilege of supporting research in Australia and New Zealand now and into the future.



The Optical Society of America (OSA)

osa.org/join

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SPIE

spie.org

SPIE, the international society for optics and photonics, was founded in 1955 to advance light-based technologies. Students are an important part of the Society, comprising about 1/3 of its total membership. Student Members of SPIE are eligible for scholarships, travel grants, and for participation in the leadership of student chapters. Students also give back to the Society by performing a tremendous amount of outreach in their local communities, spreading knowledge and excitement for the impact of optics in our lives.

The logo for SPIE (Society for Photonics and Optics) features the word "SPIE" in a bold, black, sans-serif font. A small red dot is positioned to the right of the letter "E".

Workshop Guests:

Australian Institute of Physics (AIP) - Kris Rowland

aip_branch_chair@sa.aip.org.au
www.aip.org.au



The Department of State Development (DSD)

www.statedevelopment.sa.gov.au

The Department of State Development supports business and investment activity to boost economic growth and create jobs across South Australia. It works with industry and education partners to explore opportunities in investment and trade, small business, industry and innovation, science and technology, and skills and workforce development that will contribute to ongoing prosperity.



**Government
of South Australia**

Department of
State Development

Edmund Optics (EO) - Preeya Tanabalan

preeya@edmundoptics.com.sg

www.edmundoptics.com.au

Edmund Optics Inc. (EO) has been a leading supplier of optics and optical components to industry since 1942, designing and manufacturing a wide array of multi-element lenses, lens coatings, imaging systems, and Opto-Mechanical equipment, and is home to the world's largest inventory of optical components. Led by a staff of skilled optical engineers and scientists, EO is application focused and pursues new ways to implement optical technology, enabling advancements in semiconductor manufacturing, industrial metrology, and medical instrumentation. We love what we do. We Love Optics!



Maptek - Mark Pfitzner & Sai Lam

www.maptek.com/products/i-site/

Maptek™ is a leading provider of innovative software, hardware and services for the global mining industry. Maptek I-Site™ systems combine accurate 3D laser scanners with advanced point cloud processing software for survey, civil, mining and forensic applications. Products include the I-Site 8820 and I-Site 8200 laser scanners, which target survey tasks for surface and underground operations. Maptek employs approximately 50 people in its Adelaide facility to research, design, develop, build and test I-Site laser scanning technology.



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NewSpec

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NewSpec is an Australian owned company with offices in Adelaide, Melbourne and Brisbane, specialising in the marketing, importation, installation and service of scientific research equipment, primarily in the fields of lasers, optics, electron microscopy and surface metrology. NewSpec are the exclusive Australasian distributor for companies including Newport, Hitachi High-Tech, Spectra Physics, NKT Lasers, Kentek and Zygo.



Photon Scientific - Nishith Kumar

info@photonscientific.com.au

www.photonscientific.com.au/products.html

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Additional Sponsors:

ARC National T-Ray Facility (ANTF)

www.eleceng.adelaide.edu.au/thz/

Work on terahertz radiation (T-rays) in Adelaide first began in 1997. We developed the first terahertz lab in the Southern Hemisphere. We are the world's first laser-based terahertz user facility, and researchers from other institutions are most welcome to make use of the lab. We currently run a range of terahertz research programs mainly in the areas of biosensing, security, and short-path communications.

ARC National T-ray Facility

Centre for Micro-Photonics (CMP)

www.swinburne.edu.au/cmp

The Centre for Micro-Photonics (CMP) is an internationally leading Centre in biophotonics and nanophotonics research located at Swinburne University of Technology, Melbourne. Swinburne and the CMP provides a world-class laboratory for training Australian and international research students.



Grey Innovation

www.greyinnovation.com



Griffith University

www.griffith.edu.au



MQ Photonics

web.science.mq.edu.au/mqphotonics/



The Photon Factory

www.photonfactory.auckland.ac.nz

The Photon Factory opened in 2010 as an advanced, multi-user pulsed laser facility in the Faculty of Science at The University of Auckland and part of the Dan Walls Centre for Pure and Applied Optics. The high-tech, ultrafast laser pulses we generate are used for everything from discovering fundamental knowledge to manufacturing on a microscopic scale.



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Event Summary:

IONS-KOALA 2014 was organised by Eleanor King, Fiorina Piantedosi, Jonathan Hall, Ka Wu, Myles Clark, Ori Henderson-Sapir, Patrick Tapping, Sebastian Ng and Sophie Hollitt with the help of our local OSA Student Chapter. We would all like to sincerely thank our generous sponsors, the university community and all of the attendees for making this conference possible. We hope you continue to support what we view as a unique and highly valuable conference series.

The Industry Workshop was designed to provide an opportunity for networking between conference attendees and representatives from the Australian optical community. We encourage all attendees to use this event find out more about the organisations and groups that have made KOALA possible. These organisations will likely be a source of employment for graduates, homes for future researchers, or suppliers of parts, services and equipment used throughout your future career.

Please remember that the Industry Representatives don't bite! If you feel nervous about speaking to them, just remember that a lot of them were students once too. They might have some interesting stories about their experiences to share!

Please enjoy your evening, we hope you meet many useful contacts for the future.



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