

Structured Light for Life Program

Tuesday 21 st February 2023, Helen Mayo South, Hone & Stirling Teaching Room SG20		
9:00 am	Registration + Coffee	
9:15 am	Welcome	Kishan Dholakia <i>Centre director</i>
Science Meeting Day 1		
9:20 am	Introduction and overview for Centre	Kishan Dholakia <i>Centre director</i>
9:35 am	Chiral materials science with structured light fields	Takashige Omatsu <i>Invited speaker</i> Chiba University
9:55 am	Computational inverse design finds chiral nanophotonic structures	Atsushi Taguchi Hokkaido University
10:10 am	Chiral crystallization controlled by optical trapping-induced crystallization	An-Chieh Cheng <i>Hokkaido University</i>
10:25 am	Shaping light with metasurfaces	Anastasiia Zalagina <i>The University of Adelaide</i>
Morning Tea + Poster Session		
11:00 am	Optical frequency combs for breath analysis	Andre Luiten <i>Invited speaker</i> <i>The University of Adelaide</i>
11:20 am	Magnetic resonance sensing with optically trapped nanodiamonds	Peter Reece <i>Invited speaker</i> <i>University of New South Wales</i>
11:40 am	Optical tweezers in complex biological systems	Halina Rubinsztein-Dunlop <i>Invited speaker</i> <i>The University of Queensland</i>
12:00 pm	Optical force arising from chiro-optical light-matter interaction	Hiroimi Okamoto <i>Invited speaker</i> <i>Institute for Molecular Science</i>
12:20 pm Centre of Light for Life Lab Tours		
12:50 pm Lunch + Poster Session		
2:30 pm	Imaging beyond photodamage limits using a quantum-light microscope <i>Zoom presentation</i>	Warwick Bowen <i>Invited speaker</i> <i>The University of Queensland</i>
Centre of Light for Life Launch		
3:00 pm	Registration	
3:30 pm	Introduction	Kishan Dholakia <i>Centre director</i>
3:40 pm	Words from the Vice Chancellor	Peter Høj <i>The University of Adelaide</i>
3:45 pm	Words from the Pro-Vice Chancellor (Research Excellence)	Laura Parry <i>The University of Adelaide</i>
3:50 pm	International Collaboration	Takashige Omatsu Chiba University
3:55 pm	Interdisciplinary Science	Kylie Dunning <i>Hospital Research Foundation Fellow, Future Making Fellow, The University of Adelaide</i>
4:00 pm	Closing remarks	Kishan Dholakia <i>Centre director</i>
4:05 – 5 pm Networking, Canapés, Drinks and Centre of Light for Life Lab Tours		
6:30 – 9:30 pm Science Meeting Dinner @ National Wine Centre		

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Wednesday 22 nd February 2023, The Braggs, Braggs Seminar Room 214		
Science Meeting Day 2		
9:00 am	Translation of Raman and fluorescence sensing to industrial applications	Erik Schartner <i>The University of Adelaide</i>
9:15 am	Evaluation of polar nature at domain boundaries by using second harmonic generation microscope	Hiroko Yokota <i>Chiba University</i>
9:30 am	Laser-induced perturbation into neuronal networks	Chie Hosokawa <i>Osaka Metropolitan University</i>
9:45 am	Optical imaging with a gentle touch	Avinash Upadhyaya <i>The University of Adelaide</i>
10:00 am	From devices to diagnosis: revolutionising reproductive science using light	Kylie Dunning <i>Invited speaker</i> <i>The University of Adelaide</i>
10:20 am	Future collaborations session	Kishan Dholakia <i>Centre director</i>
10:40 am	Morning Tea + Poster Session	
11:00 am	Deep sensing: next generation of optical fibre sensors powered by machine learning	Stephen-Warren Smith <i>Invited speaker</i> <i>The University of South Australia</i>
11:20 am	Graphene flat optical elements for wavefront shaping	Baohua Jia <i>Invited speaker</i> <i>Royal Melbourne Institute of Technology</i>
11:40 am	Imaging and projection through multimode optical fibres	Ralf Moutaana <i>The University of Adelaide</i>
11:55 am	Towards a sub-attometer fibre wavemeter based on Speckle interference patterns	Chris Perrella <i>The University of Adelaide</i>
12:10 pm	Closing	Kishan Dholakia <i>Centre director</i>