



AGENDA

Precision Sensing Workshop

24 – 25 October 2016

Physics Teaching Studio, Building 38a, Dept of Quantum Science, ANU

SUNDAY 23 OCTOBER

19:00 – 21:00 WELCOME RECEPTION

MONDAY 24 OCTOBER

DAY 1 SESSION 1: SETTING THE SCENE

09:00 – 09:15	Welcome to Workshop	John Close, Andre Luiten and Warwick Bowen
09:15 – 09:45	DSTG Perspective	Brian Hanlon
09:45 – 10:15	Q&A	
10:15 – 10:30	NMI Perspective	Malcolm Gray
10:30 – 10:45	CSIRO Perspective	Cathy Foley
10:45 – 11:00	Space Engineering Perspective	Russell Boyce

11:00 – 11:15 MORNING TEA

DAY 1 SESSION 2: COE PERSPECTIVES

11:15 – 11:30	CQC2T Perspective (+10 mins discussion)	Michelle Simmons
11:40 – 11:55	EQuS Perspective (+10 mins discussion)	Andrew Doherty
12:05 – 12:20	OZGrav Perspective (+10 mins discussion)	David McClelland

12:30 – 13:30 LUNCH

DAY 1 SESSION 3: COE, INDUSTRY AND ACADEMY PERSPECTIVES

13:30 – 13:45	Industry Perspective	Daniel Shaddock
13:45 – 14:00	Academy of Science, links to Europe and the US	Hans Bachor

DAY 1 SESSION 4: INERTIAL SENSING, TIME AND FREQUENCY, AND MAGNETOMETRY

14:00 – 14:15	Inertial Sensing (+15 mins discussion)	Nick Robins
14:30 – 14:45	Time and Frequency (+15 mins discussion)	Andre Luiten
15:00 – 15:15	Magnetometry (+15 mins discussion)	Warwick Bowen
15:30 – 15:45	Acoustic Sensing (+15 mins discussion)	Jong Chow

16:00 – 16:15 AFTERNOON TEA

DAY 1 SESSION 5: CHEMICAL AND BIO SENSING

16:15 – 16:30	Chip-based Bio/Chem Sensing (+15 mins discussion)	Gino Putrino
16:45 – 17:00	Functionalised Fibre based Bio/Chem Sensing (+15 mins discussion)	Heike Ebendorff-Heidepriem

DAY 1 SESSION 6: INNOVATIVE SENSOR DESIGN & OPERATIONAL TECHNIQUES

17:15 – 17:35	Machine Learning and Optimal Protocols (+ 20 mins)	Anton Van den Hengel and Mike Biercuk
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19:00 – 21:00 DINNER



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TUESDAY 25 OCTOBER

DAY 2 SESSION 1: CENTRE OF EXCELLENCE PERSPECTIVES II

09:00 – 09:15	CUDOS Perspective (+10 mins discussion)	Ben Eggleton
09:25 – 09:40	FLEET Perspective (+10 mins discussion)	Elena Ostrovskaya
09:50 – 10:05	CNBP Perspective (+10 mins discussion)	Ewa Goldys
10:15 – 10:45	MORNING TEA	

DAY 2 SESSION 2: RADIATION AND REMOTE SENSING

10:45 – 11:00	Radiation Sensing (+15 mins discussion)	Nigel Spooner
11:15 – 11:30	Stand-off Detection and Lidar (+15 mins discussion)	David Ottaway
11:45 – 12:00	Semiconductor Optoelectronics (+15 mins discussion)	Dilusha Silva
12:15 – 13:15	LUNCH	

DAY 2 SESSION 3: CONTROL AND SENSING TECHNIQUES

13:15 – 13:35	Quantum Control (+20 mins discussion)	Joe Hope
13:55 – 14:15	Classical-Quantum Interface (+20 mins discussion)	David Reilly
14:35 – 14:55	Quantum Enhanced Sensing (+20 mins discussion)	Ping Koy Lam
15:15 – 15:45	WRAP-UP AND NEXT ACTIONS	John Close, Andre Luiten and Warwick Bowen