

# SmartSat CRC Conference – DAY 1

\* Subject to change  
 \* All times are presented in Adelaide Time (ACDT)

<p><b>9:00am</b> <b>9:10am</b></p>	<h2 style="text-align: center;">WELCOME AND INTRODUCTION</h2>					
	<p><b>DR CARL SEUBERT</b> SmartSat CRC <i>Welcome and introduction</i></p>					
<p><b>9:10am</b> <b>10:10am</b></p>	<h2 style="text-align: center;">DISTINGUISHED SPEAKER</h2>					
	<p><b>DR JAMES GARVIN</b> NASA Goddard Space Flight Centre <i>Opening Keynote</i></p>					
<p>----- BREAK -----</p>						
<p><b>10:30am</b> <b>12:00pm</b></p>	<h2 style="text-align: center;">AURORA TOWN HALL</h2>					
	<p><b>DR TIM PARSONS</b> Aurora Chair <i>Aurora Introduction</i></p>	<p><b>MEMBER SHOWCASE &amp; THEIR NEEDS</b></p>	<p><b>SHOWCASE FLATSAT PROJECT</b></p>	<p><b>SUPPORTING MEMBERS SHOWCASE &amp; THEIR CAPABILITIES</b></p>		
<p>----- LUNCH -----</p>						
<p><b>12:30pm</b> <b>14:00pm</b></p>	<h2 style="text-align: center;">PHD PROJECT PRESENTATION</h2>					
	<p><b>PROF WEI XIANG</b> SmartSat CRC <i>HDR Coordinator</i></p>	<p><b>JORDAN PLOTNEK</b> University of SA <i>Space Systems Resilience</i></p>	<p><b>ANNE BETTENS</b> University of Sydney <i>Autonomous navigation of satellites for space exploration</i></p>	<p><b>MOHAMED SHEHATA</b> University of Adelaide <i>Potentials and Limitations of the IEEE</i></p>	<p><b>SAI VALLAPUREDDY</b> RMIT <i>A Machine Learning based solution for Space Situational Awareness and Space Sustainability</i></p>	<p><b>ZACHARY AUHL</b> La Trobe University <i>Using Blockchain and DRBs to Orchestrate an IoT Network</i></p>
<p>----- BREAK -----</p>						
<p><b>14:10pm</b> <b>15:10pm</b></p>	<h2 style="text-align: center;">PHD PROJECT PRESENTATION CONTINUED</h2>					
	<p><b>PROF WEI XIANG</b> SmartSat CRC <i>HDR Coordinator</i></p>	<p><b>AHSAN WAQAS</b> University of SA <i>Distributed Beamforming for Satellite Applications</i></p>	<p><b>BENJAMIN DIX-MATTHEWS</b> University of WA <i>Coherent Free-Space Optical Communications</i></p>	<p><b>THOMAS GRAHAM</b> Swinburne University <i>Responsible AI in Space</i></p>	<p><b>SABRINA SLIMANI</b> University of Adelaide <i>Using Quantum Entanglement to Remotely Synchronize Clocks</i></p>	
<p><b>15:10pm</b> <b>16:10pm</b></p>	<h2 style="text-align: center;">PHD PROFESSIONAL DEVELOPMENT</h2>					
	<p><b>PROF ANDY KORONIOS</b> SmartSat CRC <i>Chief Executive Officer</i></p>	<p><b>DR ANDREW BARTON</b> SmartSat CRC <i>Ex CRC PhD Career Overview</i></p>	<p><b>PROF CHRISTOPHER FLUKE</b> Swinburne University <i>Professorial Chair Discussing making most of PhD</i></p>	<p><b>DR ALEX GRANT</b> Myriota <i>How to collaborate with the Industry</i></p>		

<p><b>9:00am</b> <b>9:50am</b></p>	<h2>SMARTSAT STRATEGIC DIRECTIONS: DRIVING INNOVATION AND TRANSFORMATION</h2>					
	<p><b>DR PETER WOODGATE</b> SmartSat CRC CHAIR <i>Welcome &amp; Introduction</i></p>	<p><b>PROF ANDY KORONIOS</b> SmartSat CRC <i>Chief Executive Officer</i></p>	<p><b>DR SARAH CANNARD</b> SmartSat CRC <i>Industry Director</i></p>	<p><b>DR CARL SEUBERT</b> SmartSat CRC <i>Chief Research Officer</i></p>	<p><b>DR TIM PARSONS</b> SmartSat CRC <i>Aurora Chair</i></p>	
	<h2>SMARTSAT RESEARCH FRAMEWORK: TECHNOLOGY PATHWAYS TO CAPABILITY DEMONSTRATORS</h2>					
<p><b>10:00am</b> <b>10:50am</b></p>	<p><b>DR CARL SEUBERT</b> SmartSat CRC <i>Capability Demonstrator Overview</i></p>	<p><b>DR ALEX HELD</b> CSIRO <i>AquaWatch Australia overview</i></p>	<p><b>PETER KERR</b> SmartSat CRC <i>Indo-Pacific Connector overview</i></p>	<p><b>DR CARL SEUBERT</b> SmartSat CRC <i>I-in-the-sky overview</i></p>		
<p>----- BREAK -----</p>						
	<h2>SPACE TECHNOLOGIES FOR CONSTELLATIONS, AUTONOMY, AND REMOTE SENSING</h2>					
<p><b>11:00am</b> <b>12:30pm</b></p>	<p><b>PROF TAT-JUN CHIN</b> University of Adelaide <i>Intro/mini keynote</i></p>	<p><b>THOMAS WATKINS</b> Shoal <i>LEO Constellation Technology Horizon Scan</i></p>	<p><b>KATHIRVAN THANGAVEL</b> RMIT <i>AI for Distributed Satellite Systems Autonomous Operations</i></p>	<p><b>ELDAR RUBINOV</b> FrontierSI <i>Precision Timing for Space Based Applications</i></p>	<p><b>MARK RAMSEY</b> SITAEI <i>Super resolution Mosaic Infrared Focal (SMIRF) Sensor</i></p>	<p><b>RYAN STEIN</b> University of NSW <i>Distributed Flatsat Phase 1</i></p>
<p>----- LUNCH -----</p>						
	<h2>NEXT GENERATION SPACE COMMUNICATIONS AND CONNECTIVITY</h2>					
<p><b>1:00pm</b> <b>14:25pm</b></p>	<p><b>DR SARAH CANNARD</b> SmartSat CRC <i>Intro/mini keynote</i></p>	<p><b>DR GERALD BOLDING</b> DST Group <i>CHORUS</i></p>	<p><b>DR DAVID GOZZARD</b> University of WA <i>Coherent Free-Space Optical Communications</i></p>	<p><b>EMILY AHERN</b> University of Adelaide <i>Compact Clock for Small Satellite Applications</i></p>	<p><b>DR FRANCIS BENNET</b> Australian National Uni <i>Q-Pathfinder - Quantum Enhanced Secure Comms</i></p>	<p><b>DR MARK RICE</b> Safety From Space <i>Resilient Emergency and Search and Rescue Communications</i></p>
<p>----- BREAK -----</p>						
	<h2>HARNESSING EARTH OBSERVATION TO SAFEGUARD THE FUTURE OF AUSTRALIAN COMMUNITIES</h2>					
<p><b>14:35pm</b> <b>16:00pm</b></p>	<p><b>DR JASMINE MUIR</b> SmartSat CRC <i>Intro/mini keynote</i></p>	<p><b>KATE WILLIAMS</b> Frontier SI <i>SIG Water</i></p>	<p><b>DR ARNOLD DEKKER</b> SatDek <i>AquaWatch Phase 0</i></p>	<p><b>LIANG ZHAO</b> University of SA <i>Satellite image-based smoke detection for bush fire detection</i></p>	<p><b>PROF SIMON JONES</b> RMIT <i>Real Time Fire Analytics</i></p>	<p><b>BRITTANY DAHL</b> Geoplex <i>Real All Weather, near real time bushfire monitoring w/ satellite SAR</i></p>
	<h2>TECHNOLOGY FUTURE FORECASTING</h2>					
<p><b>16:00pm</b> <b>16:30pm</b></p>	<p><b>PROF ALLISON KEALY</b> SmartSat CRC <i>Facilitator</i></p>	<p><b>PROF JILL SLAY</b> University of South Australia <i>SmartSat Professorial Chair</i></p>	<p><b>PROF TAT-JUN CHIN</b> University of Adelaide <i>SmartSat Professorial Chair</i></p>	<p><b>PROF CHRISTPHER FLUKE</b> Swinburne University <i>SmartSat Professorial Chair</i></p>		
	<h2>WRAP UP</h2>					
<p><b>16:30pm</b> <b>16:40pm</b></p>	<p><b>PROF ANDY KORONIOS</b> SmartSat CRC <i>Wrap up and thank you</i></p>					