\* Subject to change

**10:30am**

**12:00pm**

**AURORA TOWN HALL**

SUPPORTING MEMBERS SHOWCASE & THEIR CAPABILITIES

SHOWCASE FLATSAT PROJECT

**MEMBER SHOWCASE & THEIR NEEDS**

**DR TIM PARSONS**

Aurora Chair

*Aurora Introduction*

SmartSat CRC Conference – **DAY 1**

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

**- - - - - BREAK - - - -**

**DR JAMES GARVIN**

NASA Goddard Space Flight Centre

*Opening Keynote*

**DISTINGUISHED SPEAKER**

**9:10am 10:10am**

**DR CARL SEUBERT**

SmartSat CRC

*Welcome and introduction*

**WELCOME AND INTRODUCTION**

**9:00am 9:10am**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **- - - - - LUNCH - - - -** | | | | | | | | | | | |
| **12:30pm**  **14:00pm** | **PHD PROJECT PRESENTATION** | | | | | | | | | | |
| **PROF WEI XIANG**  SmartSat CRC  *HDR Coordinator* | **JORDAN PLOTNEK**  University of SA *Space Systems Resilience* | | **ANNE BETTEN**  University of Sydney *Autonomous navigation of satellites for space exploration* | **SABRINA SLIMANI**  University of Adelaide *Using Quantum Entanglement to Remotely Synchronize Clocks* | | | **SAI VALLAPUREDDY**  RMIT  *Using Blockchain and DRBs to Orchestrate an IoT Network* | **ZACHARY AUHL**  La Trobe University *Using Blockchain and DRBs to Orchestrate an IoT Network* | | **MOHAMED SHEHATA**  University of Adelaide *Potentials and Limitations of the IEEE* |
|  |
| **- - - - - BREAK - - - -** | | | | | | | | | | | |
| **14:10pm**  **15:10pm** | **PHD PROJECT PRESENTATION CONTINUED** | | | | | | | | | | |
| **PROF WEI XIANG**  SmartSat CRC  *HDR Coordinator* | **AHSAN WAQAS**  University of Adelaide *Distributed Beamforming for Satellite Applications* | | **BENJAMIN DIX- MATTHEWS**  University of WA *Coherent Free-Space Optical Communications* | **TBC** TBC *TBC* | | | **TBC** TBC *TBC* |  | | |
|  |
| **- - - - - BREAK - - - -** | | | | | | | | | | | |
| **15:20pm**  **16:20pm** | **PHD PROFESSIONAL DEVELOPMENT** | | | | | | | | | | |
| **PROF ANDY KORONIOS**  SmartSat CRC  *Chief Executive Officer* | | **DR ANDREW BARTON**  SmartSat CRC  *Ex CRC PhD Career Overview* | | |  | **PROF CHRIS FLUKE**  Swinburne University  *Professional Chair Discussing making most of PhD* | | | **TBC**  TBC  *How to collaborate with the Industry* | |

\* Subject to change

SmartSat CRC Conference – **DAY 2**

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

**11:00am**

**12:25pm**

**SMARTSAT STRATEGIC DIRECTIONS: DRIVING INNOVATION AND TRANSFORMATION**

**9:00am**

**9:50am**

**DR PETER WOODGATE**

SmartSat CRC CHAIR

*Welcome & Introduction*

**PROF ANDY KORONIOS**

SmartSat CRC

*Chief Executive Officer*

**DR SARAH CANNARD**

SmartSat CRC

*Industry Director*

**DR CARL SEUBERT**

SmartSat CRC

*Chief Research Officer*

**DR TIM PARSONS**

SmartSat CRC

*Aurora Chair*

**- - - - - BREAK - - - -**

**SMARTSAT RESEARCH FRAMEWORK: TECHNOLOGY PATHWAYS TO CAPABILITY DEMONSTRATORS**

**10:00am**

**10:50am**

**DR CARL SEUBERT**

SmartSat CRC

*Capability Demonstrator Overview*

**DR ALEX HELD**

CSIRO

*AquaWatch Australia overview*

**PETER KERR**

SmartSat CRC

*Indo-Pacific Connector overview*

**DR CARL SEUBERT**

SmartSat CRC

*I-in-the-sky overview*

**- - - - - BREAK - - - -**

**SPACE TECHNOLOGIES FOR CONSTELLATIONS, AUTONOMY, AND REMOTE SENSING**

**PROF TAT-JUN CHIN**

University of Adelaide

*Intro/mini keynote*

**KEVIN ROBINSON**

Shoal

*LEO Constellation Technology Horizon Scan*

**KATHIRVAN THANGAVEL ELDAR RUBINOV**

RMIT FrontierSI

*AI for Distributed Satellite Precision Timing for Space Systems Autonomous Operations Based Applications*

**MARK RAMSEY**

SITAEL

*Super resolution Mosaic Infrared Focal (SMIRF) Sensor*

**DR JOON WAYN CHEONG**

University of NSW

*Distributed FlatSat*

**- - - - - LUNCH - - - -**

**NEXT GENERATION SPACE COMMUNICATIONS AND CONNECTIVITY**

**12:55pm**

**14:20pm**

**DR SARAH CANNARD**

SmartSat CRC

*Intro/mini keynote*

**DR GERALD BOLDING**

DST Group

*CHORUS*

**DR DAVID GOZZARD**

University of WA *Coherent Free-Space Optical Communications*

**EMILY AHERN**

University of Adelaide *Compact Clock for Small Satellite Applications*

**DR FRANCIS BENNET**

Australian National Uni *Q-Pathfinder - Quantum Enhanced Secure Comms*

**DR MARK RICE**

Safety From Space

*Resilient Emergency and Search and Rescue Communications*

**- - - - - BREAK - - - -**

**HARNESSING EARTH OBSERVATION TO SAFEGUARD THE FUTURE OF AUSTRALIAN COMMUNITIES**

**14:30pm**

**16:10pm**

**DR JASMINE MUIR**

SmartSat CRC

*Intro/mini keynote*

**PHIL DELANEY**

Frontier SI

*SIG Water*

**DR ARNOLD DEKKER**

SatDek

*AquaWatch Phase 0*

**LIANG ZHAO**

University of SA

*Satellite image-based smoke detection for bush fire detection*

**PROF SIMON JONES**

RMIT

*Real Time Fire Analytics*

**BRITTANY DAHL**

Geoplex

*Real All Weather, near real time bushfire monitoring w/ satellite SAR*

**16:10pm**

**16:40pm**

**SMARTSAT HORIZON THROUGH PARTNER ENGAGEMENT**

**PROF ALLISON KEALY**

SmartSat CRC

*Welcome & Introduction*

**16:40pm**

**16:50pm**

**WRAP UP**

**PROF ANDY KORONIOS**

SmartSat CRC

*Wrap up and thank you*