



# INAUGURAL AUSTRALIA CHINA WORKSHOP ON ASTROPHYSICS: PROGRAM

5<sup>th</sup> – 7<sup>th</sup> April 2016

Rendezvous Hotel, Perth, WA, Australia

## TUESDAY 5 APRIL 2016

Time	Item
8:30am – 9:25am	Registration Desk Opens <i>Rendezvous Hotel</i>
9:25am	Announcements – Kate Gunn
9:30am – 9:50am	WELCOME CEREMONY Brian Schmidt and Lifan Wang
<b>Session 1: Antarctic Astronomy and Dome A</b> <b>Session Chair: Lister Staveley-Smith</b> <b>Location: Preston Room B</b>	
9:50am – 10:20am	Jeremy Mould (invited talk) <i>The Kunlun Infrared Sky Survey</i> (25 min presentation + 5 mins Q&A)
10:20am – 10:40am	Xiangyan Yuan <i>Progress of Antarctic Survey Telescopes</i> (15 min presentation + 5 mins Q&A)
10:40am – 11:10am	<b>Morning Tea</b> <i>Preston B pre-function</i>
11:10am – 11:40am	Ji Yang (invited talk) <i>Antarctic Observatory at Dome A, Chinese Kunlun Station – Progress Report</i> (25 min presentation + 5 mins Q&A)
11:40am – 12:00pm	Michael Burton <i>Science with KISS and DATE5</i> (15 min presentation + 5 mins Q&A)



## ACAMAR PROGRAM

12:00pm – 12:20pm	Hui Zhang <i>Looking for the hottest planet at Antarctica</i> (15 min presentation + 5 mins Q&A)	
12:20pm – 12:40pm	Lifan Wang <i>Detection of Intraday Supernovae with the Antarctic Survey Telescope</i> (15 min presentation + 5 mins Q&A)	
12:40pm – 1:40pm	Lunch <i>Straits Cafe</i>	
Session 2: Antarctic Astronomy and Gravitational Waves Session Chair: Lifan Wang Location: Preston Room B		
1:40pm – 2:00pm	Jon Lawrence <i>The AST3-NIR Camera for the Kunlun Infrared Sky Survey</i> (15 min presentation + 5 mins Q&A)	
2:00pm – 2:20pm	David Blair <i>Australia-China Collaboration in Gravitational Wave Astronomy</i> (15 min presentation + 5 mins Q&A)	
2:20pm – 2:40pm	Junwei Cao <i>Gravitational-wave Burst Analysis using Machine Learning</i> (15 min presentation + 5 min Q&A)	
2:40pm – 3:00pm	Ryan Shannon <i>Pulsar Science in the Era of FAST: Pulsar Timing Arrays and Gravitation Waves</i> (15 min presentation + 5 mins Q&A)	
3:00pm – 3:20pm	Shi Dai <i>Searching for Pulsars in Radio Continuum Images</i> (15 min presentation + 5 mins Q&A)	
3:20pm – 3:40pm	Afternoon Tea <i>Preston B pre-function</i>	
3:40pm – 4:40pm	BREAKOUT: ACAMAR (Chairs: Schmidt and Wang)	BREAKOUT: Gravity Waves (Chairs: Blair and Cao)
4:40pm – 5:40pm	BREAKOUT: ACAMAR cont	BREAKOUT: Antarctic Astronomy – KISS (Chairs: Mould and Cui)
6:00pm – 8:00pm	WELCOME RECEPTION FOR REGISTERED PARTICIPANTS AND VIP INVITEES <i>Kitson Room</i>	



## ACAMAR PROGRAM

### WEDNESDAY 6 APRIL 2016

Time	Item
7:00am	<i>Optional Activity</i> Morning Walk – please meet Kate Gunn in reception
8:00am – 8:50am	<b>Registration Desk Open</b>
8:55am	<b>Announcements – Kate Gunn</b>
<b>Session 3: Big Data Challenges in Astronomy</b> <b>Session Chair: Di Li</b> <b>Location: Preston Room B</b>	
9:00am – 9:30am	Peter Quinn (invited talk) <b>Big Data Challenges and Solutions for Astronomy in the Era of SKA</b> (25 min presentation + 5 min Q&A)
9:30am – 9:50am	Andreas Wicenec <i>SKA Science Data Processing Prototyping Activities</i> (15 min presentation + 5 min Q&A)
9:50am – 10:10am	Mingmin Chi <i>SKA Science Data Processor and Computer Architecture Innovation</i> (15 min presentation + 5 min Q&A)
10:10am – 10:30am	Jessica Chapman <i>The CSIRO ASKAP Science Data Archive: Progress and Plans</i> (15 min presentation + 5 min Q&A)
<b>10:30am – 11:00am</b>	<b>Morning Tea</b> <i>Preston B pre-function</i>
<b>Session 4: Big Data (contd) and Astrophysics</b> <b>Session Chair: Jing Wang</b> <b>Location: Preston Room B</b>	
11:00am – 11:20am	Chen Wu <i>Scheduling Data-Intensive Processing Pipelines for the SKA Science Data Processor</i> (15 min presentation + 5 min Q&A)
11:20am – 11:40am	Yeshe Fenner <i>All-Sky Virtual Observatory</i> (15 min presentation + 5 min Q&A)
11:40am – 12:00pm	John Zic <i>Pulsar Data Processing using Amazon Web Services</i> (15 min presentation + 5 min Q&A)



## ACAMAR PROGRAM

12:00pm – 12:20pm	Naomi McClure-Griffiths <i>Dark Gas in the Milky Way and Magellanic System</i> (15 min presentation + 5 min Q&A)	
12:20pm – 12:25pm	Breakout Session Update - Gravity Waves (Blair/Cao) [2 mins] - Antarctic Astronomy KISS (Mould/Cui) [2 mins]	
12:25pm – 1:20pm	Lunch <i>Straits Café</i>	
Session 5: Astrophysics and Australia/China cooperation Session Chair: George Heald Location: Preston Room B		
1:20pm – 1:40pm	Jing Wang <i>Forming the Outskirts of Massive Disk Galaxies</i> (15 min presentation + 5 min Q&A)	
1:40pm – 2:00pm	Luca Cortese <i>Galaxy Transformation in the Local Universe: from Arecibo and SAMI to FAST and CHILI</i> (15 min presentation + 5 min Q&A)	
2:00pm – 2:20pm	Barbara Catinella <i>Cold Gas in Galaxies: Single-Dish Surveys in the SKA Era</i> (15 min presentation + 5 min Q&A)	
2:20pm – 3:00pm	PANEL DISCUSSION Chair: Naomi McClure-Griffiths Members: Elaine Sadler, David Luchetti <i>Fostering Australia-China Collaborations</i>	
3:00pm – 3:30pm	Afternoon Tea <i>Preston B pre-function</i>	
3:30pm – 4:30pm	BREAKOUT: Pulsars and FAST (Chairs: Li and Shannon)	BREAKOUT: SKA Regional and Science Centres (Chairs: Quinn and Chi)
4:30pm – 5:30pm	BREAKOUT: Antarctic Astronomy – Plato/Kunlun (Chairs: Ashley and Wang)	BREAKOUT: SDP and Pathfinders (Chairs: Wicenec)
6:00pm – 9:00pm	WORKSHOP DINNER <i>Kitson Room</i>	



## ACAMAR PROGRAM

**THURSDAY 7 APRIL 2016**

Time	Item
7:30am	<i>Optional Activity:</i> Tai Chi – please meet Kate Gunn in reception
8:00am – 8:50am	<b>Registration Desk Open</b>
8:55am – 9:00am	<b>Announcements</b>
<b>Session 6: Radio Astronomy, SKA and Pathfinders</b> <b>Session Chair: Elaine Sadler</b> <b>Location: Preston Room B</b>	
9:00am – 9:30am	Bo Qin (invited talk) <i>SKA in China</i> (25 min presentation + 5 min Q&A)
9:30am – 10:00am	Lisa Harvey-Smith (invited talk) <i>The Australian SKA Pathfinder</i> (25 min presentation + 5 min Q&A)
10:00am – 10:20am	Xuelei Chen <i>The Tianlai 21cm Intensity Mapping Pathfinder Experiment</i> (15 min presentation + 5 min Q&A)
10:20am – 10:40am	Nick Seymour <i>Exploring the Radio Universe Through Continuum Surveys</i> (15 min presentation + 5 min Q&A)
<b>10:40am – 11:10am</b>	<b>Morning Tea</b> <i>Preston B pre-function</i>
<b>Session 6 (contd)</b> <b>Session Chair: Xuelei Chen</b>	
11:10am – 11:40am	Di Li (invited talk) <i>The Status of FAST and Possible Synergy Between Chinese and Australian Radio Communities</i> (25 min presentation + 5 min Q&A)
11:40am – 12:00pm	Attila Popping <i>FAST Detections of Neutral Hydrogen in the Intergalactic Medium</i> (15 min presentation + 5 min Q&A)



## ACAMAR PROGRAM

12:00pm – 12:20pm	Randall Wayth <i>The Murchison Widefield Array</i> (15 min presentation + 5 min Q&A)
12:20pm – 12:30pm	Breakout Session Update - Pulsars and FAST (Li/Shannon) [2 mins] - SKA Regional and Science Centres (Quinn/Chi) [2 mins] - Antarctic Astronomy Plato/Kunlun (Ashley/Wang) [2 mins] - SDP and Pathfinders (Wicenec/Chen) [2 mins]
12:30pm – 12:40pm	CLOSING REMARKS Elaine Sadler and Ji Yang
12:40pm – 1:40pm	LUNCH
1:30pm	SOCIAL ACTIVITY Perth Zoo Planetarium – SciTech: Capturing the Cosmos