

## ASA 2017 - Sunday 9 July

TIME	5/8/20175/8/2017	Barton Theatre	Griffin Seminar Room
4:00-7:00	<i>Registration (University House)</i>		
4:30-6:30	<i>Welcome Reception (University House) - Sponsored by the ANU Research School of Physics and Engineering</i>		

# ASA 2017 - Monday 10 July

TIME	Molonglo Theatre	Barton Theatre	Griffin Seminar Room
9:00-9:15	Welcome - Prof. Brian Schmidt, Vice-Chancellor of the ANU		
9:15-9:30	Welcome to Country - Tyrone Bell, Ngunnawal Elder		
<b>Session 1 - Results from the Murchison Wide-Field Array (Chair Cath Trott )</b>			
9:30-9:45	Murchison Widefield Array: Science and technology on the path to SKA - Randall Wayth		
9:45-10:00	Fireballs, the ionosphere, and space debris from the MWA - Paul Hancock		
10:00-10:15	A multi-frequency radio continuum study of the Magellanic Clouds - Bi-Qing For		
10:15-10:30	Engineering Development Array: A low frequency radio telescope utilising SKA precursor technology - Marcin Sokolowski		
10:30-11:00	<i>Morning Tea (Foyer)</i>		
<b>Session 2 - Results from SkyMapper (Chair Brad Tucker)</b>			
11:00-11:15	The First Data Release of SkyMapper's Southern Sky Survey - Chris Onken		
11:15-11:30	The SkyMapper Search for Extremely Metal-Poor Stars in the Galactic Halo - Gary Da Costa		
11:30-11:45	An atlas of SFR changes in nearby galaxies from SkyMapper - Chris Wolf		
11:45-12:00	The SkyMapper High-Redshift Quasar Survey - Fuyan Bian		
12:00-12:15	Update on the SkyMapper Transient Survey - type Ia supernovae and other transients: Anaïs Moller		
12:15-12:30	A First SkyMapper Variability Census and the Search for Counterparts to High-energy Events - Seo-Won Chang		
12:30-2:00	<i>Lunch (Foyer)</i>		
1:00-2:30	<b>The Future of Optical Astronomy in Australia - Sponsored by AAO</b>		
<b>Session 3 - Instruments and Facilities (Chair Mike Ireland)</b>		<b>Session 4 - Results from ASKAP (Chair Minh Huynh)</b>	
2:30-2:45	Opening the dynamic infrared sky with DREAMS - Anna Moore	HI accretion, the Cosmic Web and WALLABY early science - Dane Kleiner	
2:45-3:00	The Huntsman observing systems: the frontier of extremely low surface brightness observations - Lee Spitler	Scientific validation of ASKAP continuum data - Jordan Collier	
3:00-3:15	CACAO: A Cheap And Compact Adaptive Optics system - Jamie Soon	The cold gas reservoir feeding an adolescent radio galaxy - James Allison	
3:15-3:30	LSST and Australia - Sarah Brough	The discovery of a population of bright fast radio bursts with the Australia Square Kilometre Array Pathfinder - Ryan Shannon	
3:30-3:45	Maunakea melting pot: Opportunities for Australia with EAO - Jessica Dempsey		
3:45-4:15	<i>Afternoon Tea (Foyer)</i>		
<b>Session 5 - Planet Formation (Chair Christene Lynch)</b>		<b>Session 6 - High-Energy / Particle Physics (Chair Stas Shabala)</b>	
4:15-4:30	Constraints on the radial extent of debris disks from unresolved continuum emission - Jonty Marshall	Low luminosity thermonuclear supernovae as the origin of most Galactic antimatter - Roland Crocker	
4:30-4:45	The effect of non-ideal MHD on disc winds from protoplanetary discs - James Tocknell	Recent Anisotropy Studies With The Pierre Auger Cosmic Ray Observatory - Roger Clay	
4:45-5:00	Tiny grains shining bright in the gaps of Herbig Ae transition discs - Eloise Birchall	Detecting high-energy cosmic particles with radio telescopes - Clancy James	
5:00-5:15	Binary Star Formation and the Outflows from their Discs - Rajikia Kuruwita	A quantum of darkness: making particles invisible - Allan Ernest	

# ASA 2017 - Tuesday 11 July

TIME	Molonglo Theatre	Barton Theatre	Griffin Seminar Room
8:00-8:30	ESO Signing Breakfast - Molonglo Theatre		
8:30-9:15	ESO Signing		
<b>Session 7 - Active Galactic Nuclei and Quasar's (Chair Julie Banfield)</b>			
9:15-9:45	Triggering AGN in galaxy clusters - Madeline Marshall (Bok Prize)		
9:45-10:00	The relationship of AGN feedback by relativistic jets to the spectra of Gigahertz Peak Spectrum and Compact Steep Spectrum radio sources - Geoff Bicknell		
10:00-10:15	Catching Feedback in the Act at the Sub-kpc Scale - Anna Zovaro		
10:15-10:30	DRAGONS: AGN quenching of high redshift star formation in ZF-COSMOS-20115 - Yuxian Qin		
10:30-10:45	Using Broad Absorption Lines to Illuminate Quasar Structure - Suk Yee Yong		
10:45-11:00	Poster Sparklers (1-min each)		
11:00-11:30	<i>Morning Tea (Foyer)</i>		
<b>Session 8 - Stars (Chair Blair Conn)</b>			
11:30-12:00	Stellar Astrophysics with Cassini: Syzygies, Stardust and the Sizes of Stars - Paul Stewart (Charlene Heisler Prize)		
12:00-12:15	Detection of young stars in the large spectroscopic surveys - Marusa Zerjal		
12:15-12:30	Polarisation due to rotational distortion in the bright star Regulus - Daniel Cotton		
12:30-12:45	Observations of radio stars with geodetic VLBI - Oleg Titov		
12:45-1:00	Chasing Low Frequency Radio Bursts from Magnetically Active Stars - Christene Lynch		
1:00-2:15	<i>Lunch (Foyer)</i>		
1:15-2:15	<b>IDEA Chapter Meeting - Sponsored by CAASTRO</b>	<b>ANITA Chapter Meeting - Sponsored by AAL</b>	
<b>Session 9 - The Epoch of Reionization (Chair Rachel Webster)</b>		<b>Session 10 - New Stellar/Exoplanet Projects (Chair Jonty Marshall)</b>	
2:15-2:30	An update on the MWA EoR Experiment - Jack Line	The FunnelWeb Survey: Exoplanet and Galactic Science in the Gaia Era - Mike Ireland	
2:30-2:45	Toward the Epoch of Reionisation: challenges and progress on the path to the Early Universe - Cathryn Trott	Astrophysical Standards for FunnelWeb's Label-based Stellar Parameter Pipeline - Adam Rains	
2:45-3:00	Challenging EoR Challenges with Array Redundancy - Ronny Joseph	Project PANOPTES: Finding exoplanets with digital cameras and citizen-science - Wilfred Gee	
3:00-3:15	Modelling High-z Galaxy Formation and the EoR with semi-analytics - Simon Mutch	Cool stars, exoplanets and Veloce - Duncan Wright	
3:15-3:30	Exploring Reionization With Semi-Analytics: The Escape Fraction Strikes Back - Jacob Seiler	Veloce Rosso construction progress - James Gilbert	
3:30-3:45	Bubbles at dawn - Paul Geil	The TOLIMAN space telescope - Peter Tuthill	
3:45-4:15	<i>Afternoon Tea (Foyer)</i>		
<b>Session 11 - Seeing in 3D (Chair Michael Brown)</b>		<b>Session 12 - The Galactic Centre (Chair Helga Denes)</b>	
4:15-4:30	CAASTRO-3D: The ARC Centre of Excellence in All-Sky Astrophysics in 3-Dimensions - Lisa Kewley	Gamma-rays and Gas in the Galactic Centre - Rebecca Blackwell	
4:30-4:45	Probing effects of telescope resolution with synthetic observations of galaxy simulations - Ayan Acharyya	Shock Waves in the Unusual Galactic Centre Molecular Clouds - Andrew Lehmann	
4:45-5:00	The intrinsic shape of galaxies - Caroline Foster	ATOMIC HYDROGEN CLOUDS TRACING THE GALACTIC NUCLEAR OUTFLOW - Enrico Di Teodoro	
5:00-5:15	Fornax3D - Surveying the Fornax Cluster with MUSE - Richard McDermid	CO Observations of the Ursa Major Molecular Clouds at High Galactic Latitudes - Qingzen Yan	
5:30-6:30	<b>ATNF Town Hall - Sponsored by the CASS</b>		
7:00	<b>Rainbow Astronomy Dinner - Sponsored by ICRAR</b>		

# ASA 2017 - Wednesday 12 July

TIME	Molonglo Theatre	Barton Theatre	Griffin Seminar Room
8:00-8:50			Heads and Directors Meeting
<b>Session 13 - Cosmology (Chair Chris Blake)</b>			
9:00-9:15	Constraints on the nature of Dark Energy from OzDES - Chris Lidman		
9:15-9:30	Reverberation Mapping in Bulk with DES/OzDES - Natalia Sommer		
9:30-9:45	A new CMB lensing measurement from 500 square degrees of SPTpol data - Federico Bianchini		
9:45-10:00	A Blinded Determination of H <sub>0</sub> from Low-Redshift Type Ia Supernovae, Calibrated by Cepheid Variables - Bonnie Zhang		
10:00-10:30	Poster Sparklers (1-min each)		
10:30-11:00	<i>Morning Tea (Foyer)</i>		
11:00-11:30	Warrick Couch (Ellery Lecture)		
11:30-1:00	<b>ASA Annual General Meeting</b>		
1:00-2:15	<i>Lunch (Foyer)</i>		
1:15-2:15	<b>NCRIS Data + Computing Facilities Meet Astronomers (AAL)</b>	<b>EPOC Chapter Meeting - Sponsored by Swinburne</b>	
<b>Session 14 - Extra-Galactic Transients (Chair Keith Bannister)</b>		<b>Session 15 - Star Formation (Chair Sarah Brough)</b>	
2:15-2:30	The Properties of The Fast Radio Burst population - Jean-Pierre Macquart	Star Formation, Turbulence, and Transport: A Unified Model of Galaxy Discs - Mark Krumholz	
2:30-2:45	Discovering radio transients using Triggered and Targeted observations - Gemma Anderson	Star formation within one parsec of the supermassive black hole at the Galactic Centre - Mark Wardle	
2:45-3:00	KEGS - The Kepler Extra-Galactic Survey - Brad Tucker	Star formation and physical processes in galaxies at radio wavelengths - Anna Kapinska	
3:00-3:15	DECam detection and Keck Spectroscopy of Ongoing High Redshift Superluminous Supernovae - Chris Curtin	Hunting for cold gas with HI absorption - Helga Denes	
3:15-3:30	DASH: Deep Learning for the Automated Spectral Classification of Supernovae - Dan Muthukrishna	Investigation of Coherent Star Formation in SAMI Galaxies - Greg Goldstein	
3:30-3:45	The Zadko Telescope: Exploring the transient Universe - David Coward	Unravelling the prestellar phase of star formation using Planck cold cores - John Pena Lopez	
3:45-4:00	Searching for Ultra-Violet Gravitational Wave Counterparts with GLUV - Ryan Ridden-Harper		
4:00-4:30	<i>Afternoon Tea (Foyer)</i>		
<b>Session 16 - Globular Clusters and the Magellanic Cloud (Chair Gary Da Costa)</b>		<b>Session 17 - The Inter-Stellar Medium (Chair Maria Cunningham)</b>	
4:30-4:45	Investigating globular cluster abundance anomalies in SMC Intermediate-Age Star Clusters - Carolina Salgado	Galactic scale feedback from relativistic jets - Dipanjan Mukherjee	
4:45-5:00	Tracing extratidal stars of globular clusters - Colin Navin	Magnetic fields of a Galactic Supershell - Alec Thomson	
5:00-5:15	Mapping the Magellanic Outskirts with DECam - Dougal Mackey	Gas Temperature Demography and the HI-to-H2 Transition in the Magellanic Clouds - Katie Jameson	
5:15-5:30	An X-ray Expansion and Proper Motion Study of a Young Supernova Remnant in the Large Magellanic Cloud - Quentin Roper	Shining Light on the Dark Milky Way: Probing our Galaxy's Hidden Gas - Van Hiep Nguyen	
5:30-6:30	<i>Transportation to Questacon (Depart Crawford Building)</i>		
5:30-7:30	<b>ASTRO-3D Launch (Questacon)</b>		
7:30-8:30	<b>Harley Wood Lecture - A/Prof. Tara Murphy (U Sydney)</b>		
7:45-8:45	<i>Transportation to ANU Campus (Depart Questacon)</i>		

# ASA 2017 - Thursday 13 July

TIME	Molonglo Theatre	Barton Theatre	Griffin Seminar Room
<b>Session 18 - Cosmology with and Evolution of Galaxies (Chair Anais Moller)</b>			
9:00-9:15	The Taipan Galaxy Survey - Andrew Hopkins		
9:15-9:30	Taipan Peculiar Velocity Survey - Dilyar Barat		
9:30-9:45	Improved constraints on the growth rate of structure from modelling cross-correlation in the 6dF Galaxy Survey - Caitlin Adams		
9:45-10:00	Chasing the bright end of the $z > 8$ galaxy luminosity function: followup imaging of galaxies during reionisation with Spitzer IRAC - Stephanie Bernard		
10:00-10:15	The SMBH-Galaxy Correlation for Milky Way and Andromeda-mass Progenitors Since $z=2.5$ - Michael Cowley		
10:15-10:30	<b>Conference Photo</b>		
10:30-11:00	<b>Morning Tea (Foyer)</b>		
<b>Session 19 - Future Facilities (Chair Anna Moore)</b>			
11:00-11:15	Update on the Giant Magellan Telescope project - Matthew Colless		
11:15-11:30	An update on progress towards the Square Kilometre Array: engineering, science and governance - Sarah Pearce		
11:30-11:45	Science with Veloce - Australia's New Planet Foundry - Chris Tinney		
11:45-12:00	Imaging planet formation and stellar mass-loss with VAMPIRES - Barnaby Norris		
12:00-12:15	The Maunakea Spectroscopic Explorer - Doug Simmons		
12:15-12:30	High Energy Neutrino Astronomy with IceCube at the South Pole - Sally Robertson		
12:30-2:00	<b>Lunch (Foyer)</b>		
1:00-2:00	<b>Speed Meet-A-Mentor - Sponsored by Melbourne</b>		
<b>Session 20 - Extreme Stars (Chair Tara Murphy)</b>		<b>Session 21 - Galaxy Properties and Evolution (Chair Caroline Foster )</b>	
2:00-2:15	First detection of bifurcated blue straggler sequences in young globular clusters - Chengyuan Li	Calibrations of radio continuum, mid-infrared and UV star formation rate indicators - Michael Brown	
2:15-2:30	Silicates in the embedded YSOs and the ISM revealed by Mid-IR spectroscopy - Do Duy Tho	The drivers of Stellar Population in Early-Type Galaxies - Tania Barone	
2:30-2:45	Distributions of short-lived radio isotopes in the galactic disk - Yusuke Fujimoto	Galaxies Growing Old: the Transition to Quiescence at $3 \times 10^{10} M_{\text{sun}}$ - Philip Taylor	
2:45-3:00	Optical and radio bubbles around rapidly-feeding stellar-mass black holes - Ryan Urquhart	Do Massive Galaxies Dance in Crowds? - Sarah Brough	
3:00-3:15	Measuring binary orbits with high-precision VLBI astrometry - James Miller-Jones	Cosmic Clocks: the Radius Velocity Relationship of Disc Galaxies - Gerhard Meuer	
3:15-3:30	The first black hole - white dwarf binary discovered in the Galaxy - Vlad Tudor	Spatially-resolved measurements of narrow line region and HII region abundances in active galaxies - Adam Thomas	
3:30-4:00	<b>Afternoon Tea (Foyer)</b>		
<b>Session 22 - Exoplanets (Chair Lucyna Kedziora-Chudczer)</b>		<b>Session 23 - Molecules in the Universe (Chair Randall Wayth)</b>	
4:00-4:15	Searching for Young Exoplanets with High-Contrast Imaging in the Near Infrared - Alex Wallace	Gas clumps near hot stars cause extreme radio scattering - Artem Tuntsov	
4:15-4:30	Diffraction limited and high contrast imaging of circumstellar environments at the AAT - Tiphaine Lagadec	Interpreting the results of large, multi-molecular-line datasets of the molecular ISM - Maria Cunningham	
4:30-4:45	Mapping young suns and searching for their exoplanets - Belinda Nicholson	Searching for Molecular Building Blocks at Low Frequencies - Chenoa Tremblay	
4:45-5:00	TRAPPIST-1 and other resonant chain planetary systems - Rosemary Mardling	ABIOTIC CHEMICAL DISEQUILIBRIA IN EXO-EARTH ATMOSPHERES: IMPROVING FUTURE BIOSIGNATURE DETECTIONS BY IDENTIFYING FALSE POSITIVES - Sara McIntyre	
6:00-7:00	<b>Transportation to Old Parliament House (Depart Crawford Building)</b>		
6:30-10:30	<b>Conference Dinner Old Parliament House - Sponsored by RSAA</b>		
9:45-10:45	<b>Transportation to ANU Campus (Depart Old Parliament House)</b>		
1:00 - 5:00	<b>NCA Meeting - Ian Potter House</b>		

# ASA 2017 - Friday 14 July

TIME	Molonglo Theatre	Barton Theatre	Griffin Seminar Room
<b>Session 23 - From the Big Bang to Us (Chair Helmut Jerjen)</b>			
9:30-9:45	Cracks in LCDM: real or imagined? - Christian Reichardt		
9:45-10:00	Measuring the mass of galaxy clusters with cosmic microwave background lensing - Sanjaykumar Patil		
10:00-10:15	Resolving the Disk-Halo Degeneracy - Suryashree Aniyani		
10:15-10:30	Revolutions in polarisation: Leveraging next-generation radio telescopes and Faraday rotation to unveil the magnetised structure of radio galaxies - Craig Anderson		
10:30-11:00	<i>Morning Tea (Foyer)</i>		
<b>Session 24 - From the Big Bang to Us (Continued) (Chair Helmut Jerjen)</b>			
11:00-11:30	The many muses of radio variability from the ATESE survey - Keith Bannister (Louise Webster Prize)		
11:30-11:45	Mid-Infrared Observations with CanariCam on the Gran Telescopio Canarias - Chris Wright		
11:45-12:00	Shaping the circumgalactic medium through radio-loud AGN interactions on kpc scales - Julie Banfield		
12:00-12:15	The survival of cold gas in the Circumgalactic Medium - Lucia Armillotta		
12:15-1:30	<i>Lunch (Foyer)</i>		
12:30-1:30	<b>ECR Chapter Meeting - Sponsored by Sydney and Macquarie</b>		
<b>Session 26 - Gravitational Waves and Black Holes (Chair Anthea King)</b>			
1:30-1:45	Differentiating between black hole populations from GW observations of merger events - Letizia Sammut		
1:45-2:00	Searching for the first EM counterparts to gravitational waves in aLIGO second science run - David Coward		
2:00-2:15	Gravitational-wave spectroscopy and tests of the no-hair theorem - Paul Lasky		
2:15-2:30	AGN Reverberation Mapping with OzDES - Janie Hoormann		
2:30-2:45	Fundamentally confused? Nature, nurture and radio galaxy scaling relations - Stas Shabala		
2:45-3:00	Updating the (Supermassive Black Hole Mass) -- (Spiral Arm Pitch Angle) Correlation: a Strong Correlation for Galaxies with Pseudobulges - Ben Davis		
3:00-3:15	Using Microlensing to Probe Strong Gravity Near Supermassive Black Holes - George Chartas		
3:15-4:00	<i>Afternoon Tea (Foyer)</i>		
4:00-8:00	<b>Astronomy Data and Computing Services (ADACS) / High-Performance Computing (HPC) Workshop (Griffin Seminar Room)</b>		