



**CAASTRO**  
**3rd ANNUAL RETREAT AGENDA**

**Day 1 – Peppers, The Sands Resort, Torquay, Victoria**  
**Wednesday 20 November 2013**

Time	ITEM	Person	Time
11:15am – 12:05pm	Arrival in Melbourne	All	
12:30pm	Bus departs <b>Federation Square</b>	Fed Square	
12:45pm	Bus departs <b>Tullamarine Airport</b>	Airport	
2:00pm	Buses arrives <b>Torquay</b>	All	1.5 hours
2:05pm	Hotel check-in	All	25 mins
Time	ITEM	Person	Time
	Session Chair – Bryan Gaensler		
<b>2:30pm</b>	<b>Afternoon Tea</b>	<b>All</b>	<b>30 mins</b>
<b>3:00pm</b>	<b>Welcome</b>	<b>BMG</b>	<b>5 mins</b>
3:05pm	Overview and progress of CAASTRO to date	BMG	25 mins
3:30pm	CAASTRO Research - The Evolving Universe Overview	SW	15 mins
3:45pm	CAASTRO Research - The Dynamic Universe Overview	MB	15 mins
4:00pm	CAASTRO Research - The Dark Universe Overview	BPS	15 mins
4:15pm	<b>Invited Speaker</b> <b>Professor Philip Podsiadlowski - University of Oxford</b> <b>The Fates of Massive Stars and the Origin of Neutron Star/Black Hole Masses and Kicks</b> (30 min presentation + 5 min Q&A)	PP	35 mins
4:50pm	CAASTRO Mentoring Session	All	70 mins
6:00pm	Welcome Drinks & Dinner Hanners Restaurant, Peppers	All	

**Day 2 – Peppers, The Sands Resort, Torquay, Victoria**  
**Thursday 21 November 2013**

Time	ITEM	Person	Time
6:00am	Breakfast from 6am	All	
7:00am	Yoga on the Beach (meet in reception at 6:50am)	Anyone	60 mins
7:30am	<b>CAASTRO eROSITA Collaboration Meeting</b> Hanners Restaurant, Peppers <b>Convenor:</b> Sean Farrell	Anyone	60 mins
	Session Chair – Steven Tingay		
9:00am	Dr Michael Childress (Dark), Australian National University <b>Ages of Type Ia Supernovae Along the Galaxy Mass Sequence</b> (12 min presentation + 3 min Q&A)	MC	15 mins
9:15am	Mr Tao Hong (Dark), University of Western Australia <b>2MASS Tully-Fisher Survey</b> (12 min presentation + 3 min Q&A)	TH	15 mins
9:30am	Dr Signe Riemer-Sorensen (Dark), University of Oslo, Norway <b>Dark radiation results from Planck and WiggleZ</b> (12 min presentation + 3 min Q&A)	SRS	15 mins
9:45am	Dr Katherine Mack (Dark), University of Melbourne <b>Known Unknowns of Dark Matter Annihilation over Cosmic Time</b> (12 min presentation + 3 min Q&A)	KM	15 mins
10:00am	Dr Eyal Kazin (Dark), Swinburne University of Technology <b>Improved distance measurements with reconstructed WiggleZ</b> (12 min presentation + 3 min Q&A)	EK	15 mins
10:15am	<b>PANEL SUMMARY OF SESSION</b> <b>Tamara Davis &amp; Chris Blake</b> (5 min presentation + 5 min Q&A)	TD, CB	15 mins
10:30am	Morning Tea		30 mins
	Session Chair – Bryan Gaensler		
11:00am	CAASTRO Outreach Program	ST/WE	30 mins
11:30pm	Dr David Parkinson (Dark), University of Queensland <b>Redshift-space distortions and Galileon gravity</b> (12 min presentation + 3 min Q&A)	DP	15 mins
11:45am	Dr Chris Lidman (Dark), AAO <b>OzDES – Spectroscopic follow-up of the Dark Energy Survey with the AAT</b> (12 min presentation + 3 min Q&A)	CL	15 mins

12:00pm	Dr Alan Duffy (Evolving, Dynamic), University of Melbourne <b>Economics of the First Galaxies</b> (12 min presentation + 3 min Q&A)	AD	15 mins
12:15pm	<b>Poster Presentations</b> (1 minute presentation)	All Students	15 mins
12:30pm	<b>LUNCH</b> Showing of Posters/Voting		60 mins
1:30pm	<b>Parallel Sessions:</b> Evolving Theme Science Meeting Dynamic Theme Science Meeting Dark Theme Science Meeting Administrators Meeting  <b>Agenda:</b> 1. Introduction by the Theme Leaders 2. Update on the Projects Plan within the Theme 3. How can we unify the projects in our Theme? 4. What animation/simulations should be created to best represent/explain science within our Theme? 5. How do we create a bridge to link with the other CAASTRO Themes? 6. New Opportunities 7. Outreach 8. Other Business	SW MB BPS/TD KG	120 minutes
3:30pm	Afternoon Tea		35 mins
	Session Chair – Brian Schmidt		
4:05pm	Dr Claudia Lagos (Evolving), ESO Garching <b>Which galaxies contribute the most to the neutral gas content of the Universe?</b> (12 min presentation + 3 min Q&A)	CL	15 mins
4:20pm	<b>Invited Speaker</b> <b>Professor Carlton Baugh, Durham University</b> <b>What can we believe from galaxy formation models?</b> (30 min presentation + 10 min Q&A)	CB	40 mins
5:00pm	Special CAASTRO Activity		
6:30pm	Drinks in the Bar	ALL	
7:00pm	Dinner	ALL	

**Day 3 – Peppers, The Sands Resort, Torquay, Victoria**  
**Friday 22 November 2013**

Time	ITEM	Person	Time
	Session Chair – Matthew Bailes		
6:00am	Breakfast from 6am	All	
7:00am	Fitness activities on the Beach (meet in reception at 6:50am)	Anyone	60 mins
9:00am	<b>Invited Speaker</b> <b>Professor Marc Davis, UC Berkeley</b> <b>Large Scale Structure – Cosmic Flows</b> (30 min presentation + 10 min Q&A)	MD	40 mins
9:40am	Dr Evan Keane (Dynamic), Swinburne <b>Detecting highly-dispersed bursts with next-generation radio telescopes</b> (12 min presentation + 3 min Q&A)	EK	15 mins
9:55am	Ms Manisha Caleb (Dynamic), Australian National University <b>Searching for the Intergalactic Magnetic Field</b> (12 min presentation + 3 min Q&A)	MC	15 mins
10:10am	Mr Samuel Oronsaye (Dynamic), Curtin University <b>Searching for FRBs with the Murchison Widefield Array (MWA)</b> (12 min presentation + 3 min Q&A)	SO	15 mins
10:25am	Dr Ewan Barr (Dynamic), Swinburne <b>Accelerated acceleration searching and the GPU revolution</b> (12 min presentation + 3 min Q&A)	EB	15 mins
10:40am	Morning Tea		20 mins
	Session Chair – Lister Staveley-Smith		
11:00am	<b>PANEL DISCUSSION - The Big Opportunities In Australian Astronomy</b> <b>Matthew Colless, Elaine Sadler, Anne Green</b> (1 min presentation + 12 mins Q&A)	AG/MC/ES	15 mins
11:15am	Ms Emily Petroff (Dynamic), Swinburne University of Technology <b>Searching for Fast Radio Bursts at intermediate latitudes</b> (12 min presentation + 3 min Q&A)	EP	15 mins
11:30am	Dr Christian Wolf (Evolving, Dark), Australian National University <b>SkyMapper update &amp; science</b> (12 min presentation + 3 min Q&A)	RS	15 mins
11:45am	Dr Richard Scalzo (Dark, Dynamic), Australian National University <b>Status of the SkyMapper Supernova Search</b>	CW	15 mins

	(12 min presentation + 3 min Q&A)		
12:00pm	Dr Emma Ryan-Webber (Evolving, Dark), Swinburne University of Technology <b>Metals, galaxies and escaping flux at the end of Reionization</b> (12 min presentation + 3 min Q&A)	ERW	15 mins
12:15pm	Mr Antonio Katsianis (Evolving), University of Melbourne <b>Properties of high redshift galaxies</b> (12 min presentation + 3 min Q&A)	AK	15 mins
12:30pm	<b>LUNCH</b> An official photographer will be taking Group Photos during of lunch (12pm – 2pm for individual photos)		60 mins
	Session Chair – Brian Schmidt		
1:30pm	Intellectual Property Activity	KG	15 mins
1:45pm	Dr Emil Lenc (Evolving), University of Sydney <b>Polarisation with the Murchison Widefield Array</b> (12 min presentation + 3 min Q&A)	EL	15 mins
2:00pm	Dr Se-Heon Oh (Evolving), University of Western Australia <b>WALLABY/DINGO kinematic pipeline: a new Bayesian MCMC tilted-ring fitter</b> (12 min presentation + 3 min Q&A)	SHO	15 mins
2:15pm	Dr James Allison (Evolving), University of Sydney <b>HI absorption in HIPASS and implications for future surveys</b> (12 min presentation + 3 min Q&A)	JA	15 mins
2:30pm	Afternoon Tea		15 mins
	Session Chair – Stuart Wyithe		
2:45pm	Pitch your research – Smartphone video competition	KG	15 mins
3:00pm	Mr Scott Meyer (Evolving, Dark), University of Western Australia <b>HI Stacking and the Tully-Fisher Relation</b> (12 min presentation + 3 min Q&A)	SM	15 mins
3:15pm	Ms Eromanga Adermann (Evolving, Dynamic), University of Sydney <b>Ultra-Luminous X-Ray Sources: Extreme X-ray Binaries or Intermediate Mass Black Holes?</b> (12 min presentation + 3 min Q&A)	EA	15 mins
3:30pm	Professor Matthew Colless (Evolving), Australian National University <b>Structure, motions and cosmology from the TAIPAN survey</b> (12 min presentation + 3 min Q&A)	MC	15 mins
3:45pm	<b>Summary of the Retreat – Brian Schmidt, ANU</b>	BPS	15 mins
3:55pm	Summary and next steps	BMG	15 mins

<b>4:15pm</b>	<b>Close</b>		
<b>4:10pm</b>	<b>Bus leaves Torquay for Tullamarine Airport</b>		
<b>4:30pm</b>	<b>Bus leaves Torquay for Melbourne</b>		
<b>6:00pm</b>	<b>Bus arrives at Airport/Melbourne</b>	<b>All</b>	<b>1.5 hours</b>
<b>6:50pm – 8:00pm</b>	<b>Flights depart</b>		