



PROGRAM

FRB2018
Finding and Understanding Fast Radio Bursts

14-16 February 2018
Swinburne University of Technology
AGSE107/108

WEDNESDAY 14 FEBRUARY 2018

Time	Item
8:30 – 9:00am	Registration Desk Open, Tea/Coffee Available
Welcome	
9.00 – 9.10am	Welcome/Acknowledgement of Country/Conference Overview Adam Deller
Session I: Results from FRB Surveys Session Chair: Adam Deller	
9:10 – 9:45am	Ryan Shannon: The CRAFT survey for FRBs with ASKAP(25 + 10 mins)
9:45– 10:05am	Simon Johnston: Parkes FRBs (15 + 5 mins)
10:05 – 10:25am	Chris Flynn: FRBs at UTMOST (15 + 5 mins)
10:25 – 10:45am	Henning Hilmarsson: FRB searches at Effelsberg (15 min +5 presentation)
10:45– 11:15am	Morning Tea

FRB2018

Discussion 1: Future Upgrades to Existing Facilities (and how to fund them)	
11:15 – 12:15pm	Breakout into two or more groups
12:15 – 12:30pm	Reconvene to deliver and debate summaries and note outcomes
12:30– 13:45pm	Lunch
Session II: Special snowflakes (lessons from individual FRBs)	
Session Chair: Samayra Straal	
13:45 – 14:20pm	Laura Spitler: An Overview and Update from the Repeating FRB (25+10 mins)
14:20– 14:40pm	Emily Petroff: A bright, low-DM FRB (15+5 mins)
14:40 – 15:00pm	Wael Farah: Microstructure revealed by the real-time detection of FRB170827 (15+5 mins)
15:00 – 15:30pm	Afternoon Tea and Workshop Photo
Discussion 2:	What is the value of a single FRB (with/without localisation, with/without polarisation, with/without voltages, wide- vs narrow-band...)
15:30 – 16:30pm	Breakout into two or more groups focusing on a single class eg non localised but with voltages
16:30 – 17:00pm	Reconvene to present findings
	End of Day 1, dinner at local restaurants

FRB2018

THURSDAY 15 FEBRUARY 2018

Time	Item
8:30 – 8:55am	Registration Desk Open
8:55– 9:00am	Announcements
Session III: Theory and the FRB population(s)	
Session Chair: Sarah Burke-Spolaor	
9:00 – 9:20am	Ramesh Bhat: Searching for FRBs at low frequency (15 + 5 mins)
9:20 – 9:40am	Ron Ekers: Counting FRBs (15 + 5 mins)
9:40 – 10:00am	Samayra Straal: Extrapolating local DM environments of young Galactic pulsars to FRBs (15 + 5 mins)
10:00 – 10:20am	Klim Mikhailov: Catching super-giant pulses from nearby galaxies at low frequencies – rates and implications for FRBs (15 + 5 mins)
10:20 – 10:40am	Stefan Osowski: Are there two populations of FRB progenitors? (15 + 5 mins)
10:40 – 11:10am	Morning Tea
Discussion 3: FRB populations	
11:10– 12:10pm	Breakout into two groups: pro-single population vs pro-multi populations
12:10– 12:40pm	Reconvene for Summary and outcomes
12:40 – 13:55pm	Lunch



FRB2018

Session IV: New facilities and instrumentation #1

Session Chair: Keith Bannister

13:55 – 14:30pm	Shriharsh Tendulkar: The CHIME FRB project (25 + 10 mins, remote)
14:30 – 14:50pm	Chris Bochenek: Fast Radio Bursts in the Local Universe (15 + 5 mins)
14:50 – 15:25pm	Vikram Ravi: The extremities of the FRB sample (25 + 10 mins)
15:25 – 15:30pm	Poster Sparkler
15:30 – 16:00pm	Afternoon Tea
Discussion 4: Collaboration vs competition: how can or should facilities work together?	
Session Chair: Matthew Bailes	
16:00 – 17:00pm	Panel discussion (1 rep per facility)
17:00 – 17:15pm	Summarise and note outcomes
7pm	Conference Dinner Hawthorn Arts Centre, Burwood Road

FRIDAY 16 FEBRUARY 2018

Time	Item
8:45am	Registration Desk Open
8:55am – 9:00am	Announcements
Session VI: New facilities and instrumentation #2	
Session Chair: Stefan Osowski	
9:00 – 9:35am	Manisah Caleb: More Transients and Pulsars with MeerKAT (25 + 10 mins)
9:35 – 9:55am	Liam Connor Applying deep learning to fast transient detection (15 + 5 mins)
9:55– 10:15am	Charles Walker: LOFT-e (Localisation of Fast Transients with e-MERLIN) (15 min+ 5 mins)
10:15 – 10:35am	Clancy James: Sensitivity of CRAFT Fly’s Eye FRB searches with ASKAP (15 + 5 mins)
10:35 – 11:05am	Morning Tea
Mini-Session: Multi-wavelength and multi-messenger FRB studies	
Session Chair: Vikram Ravi	
11:05 – 11:25am	Seo-Won Chang: SkyMapper Transient program for Fast Radio Bursts (15 + 5 mins)
11:25 – 11:45am	Jeff Cooke Targeting FRBs with Deeper, Wider, Faster (15 min + 5 mins)
11:45 – 12:05am	David Coward: LIGO search for gravitational wave counterparts to FRBs (15 + 5 mins)
Discussion 5:	People power: who are we missing from the FRB field and how do we attract or cultivate them?
Session Chair:	Laura Spitler
12:05 – 12:35pm	Panel discussion (reps from different countries / fields)
12:35 – 12:50pm	Summarise and note outcomes

FRB2018

12:50 – 13:50pm	Lunch
Session VI: Session Chair	Localisation and follow-up Shivani Bhandari
13:50 – 14:25pm	Sarah Burke-Spolaor: realFAST (25 + 10 mins)
14:25 – 14:45pm	Keith Bannister: ASKAP FRB searches – current status and future directions (15 + 5 mins)
14:45 – 15:05pm	Adam Deller: UTMOST-2D: a real-time FRB localiser (15 + 5 mins)
15:05 – 15:35pm	Afternoon Tea
Discussion 6	What triggered proposals should we already have active by the time the next FRB is localised?
15:35 – 16:35pm	Discussion in groups (break out by wavelength: radio, X-ray, optical/NIR photometry/spectroscopy, etc)
16:35 – 16:50pm	Re-convene for Summary and outcomes
16:50 – 17:00pm	Workshop conclusion and summary