

# FRB2018 Program

Wednesday, 14/02/2018

AGSE 107/108

## Registration and coffee

0800 - 0900

## Session 1: Results from FRB surveys

0900 **Ryan Shannon**: The CRAFT survey for FRBs with ASKAP (25+10 mins)

0935 **Clancy James**: Sensitivity of CRAFT Fly's Eye FRB searches with ASKAP (15+5 mins)

0955 **Simon Johnston**: Parkes FRBs (15+5 mins)

1015 **Chris Flynn**: FRBs at UTMOST (15+5 mins)

## Coffee break

1035 - 1105

## Discussion 1: Future upgrades to existing facilities (and how to fund them)

1105-1205: breakout into two or more groups (front end, back end, ...)

1205-1230: re-convene to delivery and debate summaries, and note outcomes

## Lunch

1230-1345

## Session 2: Special snowflakes (lessons from individual FRBs)

1345 **Laura Spitler**: An Overview and Update from the Repeating FRB (25+10 mins)

1420 **Emily Petroff**: A bright, low-DM fast radio burst (15+5 mins)

1440 **Wael Farah**: Microstructure revealed by the real-time detection of FRB170827 (15+5 mins)

## Coffee break and workshop photo

1500 - 1530

**Discussion 2:** What is the value of a single FRB (when localised vs not, with polarisation vs not, with voltages vs not, wide-band vs narrow-band...)

1530-1630: discussions (break out into groups focusing on a single class e.g. non localised but with voltages)

1630-1700: re-convene to present findings

End of day 1, dinner at local restaurants

**Thursday, 15/02/2018**

**AGSE 107/108**

**Session 3: Theory and the FRB population(s)**

0900 **Jason Hessels**: Studying FRBs at low frequency (25+10 mins)

0935 **Ron Ekers**: Counting FRBs (15+5 mins)

0955 **Samayra Straal**: Extrapolating local DM environments of young Galactic pulsars to FRBs (15+5 mins)

1015 **Artem Tuntsov**: DM runs and shifts from plasma lensing (15+5 mins)

1035 **Klim Mikhailov**: Catching super-giant pulses from nearby galaxies at low frequencies - rates and implications for faint radio bursts (15+5 mins)

1055 **Stefan Oslowski**: Are there two populations of FRB progenitors? (15+5 mins)

**Coffee break**

1115-1145

**Discussion 3: FRB populations**

1145-1245: discussion (two groups: pro-single population vs pro-multi populations)

1245-1315: re-convene for summary and outcomes

**Lunch**

1315-1430

**Session 4: New facilities and instrumentation #1**

1430 **Shriharsh Tendulkar**: The CHIME FRB project (25+10 mins)

1505 **Chris Bochenek**: Fast Radio Bursts in the Local Universe (15+5 minutes)

1525 **Vikram Ravi**: The extremities of the FRB sample (25+10 mins)

1600 **Poster sparkler** (5 min)

**Coffee break**

1605-1635

**Discussion 4: Collaboration vs competition: how can or should facilities work together?**

1635-1720: panel discussion (1 rep per facility)

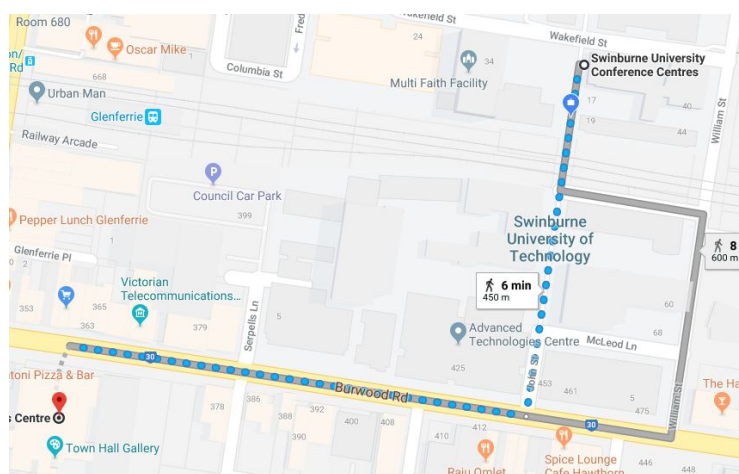
1720-1730: summarise and note outcomes

End of day 2

**Conference dinner**

1900-2300

Hawthorn Arts Centre



**Friday, 16/02/2018**

**AGSE 107/108**

**Session 5: New facilities and instrumentation #2**

0900 **Manisha Caleb:** More Transients and Pulsars with MeerKAT (25+10 mins)

0935 **Liam Connor:** Applying deep learning to fast transient detection (15+5 mins)

1015 **Charles Walker:** LOFT-e (Localisation of Fast Transients with e-MERLIN (15+5 mins)

**Coffee break**

1015-1045

**Mini-session: Multi-wavelength and multi-messenger FRB studies**

1045 **Seo-Won Chang:** SkyMapper Transient program for Fast Radio Bursts (15+5 mins)

1105 **Jeff Cooke** Targeting FRBs with Deeper, Wider, Faster (15+5 mins)

1125 **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?**

1145-1230 Panel discussion (reps from different countries / fields)

1230-1240 Summarise and note outcomes

**Lunch**

1240-1350

**Session 6: Localisation and follow-up**

1350 **Sarah Burke-Spolaor:** realFAST (25+10 mins)

1425 **Keith Bannister:** ASKAP FRB searches - current status and future directions (15+5 mins)

1445 **Adam Deller:** UTMOST-2D: a real-time FRB localiser (15+5 mins)

**Coffee break**

1505-1535

**Discussion 6:** What triggered proposals should we already have active by the time the next FRB is localised?

1535-1635: discussion in groups (break out by wavelength: radio, X-ray, optical/NIR photometry/spectroscopy, etc)

1635-1650: re-convene for summary and outcomes

**Workshop conclusion and summary**

1650-1700