BOLTON SYMPOSIUM 2020

Schedule

9:30-9:40 AM ARRC Auditorium	**Welcome** *Katie Jameson, Shi Dai, Tessa Vernstrom*
9:40-9:55 AM ARRC Auditorium	**The Life & Times of John Bolton: Who he was and his impact on Astronomy** *Ron Ekers*
9:55-11:00 AM ARRC Auditorium	**Talks Session 1** *Alphabetical, 1 min for senior researchers, 5+1 min for ECR*
11:00-11:30 AM ARRC Seminar Rm	**Tea + Coffee**
11:30 AM - 1:00 PM ARRC Auditorium	**Talks Session 2** *Alphabetical, 1 min for senior researchers, 5+1 min for ECR*
1:00-2:00 PM ARRC Seminar Rm	**Lunch**
2:00-2:45 PM ARRC Seminar Rm	**Discussion Session 1 – Culture** *Leaders: Katie, Shi, Tessa*
2:45-3:15 PM ARRC Seminar Rm	**Break**
3:15-4:00 PM ARRC Seminar Rm	**Discussion Session 2 – Science/Technical** *Leaders: Katie, Shi, Tessa*
4:00-4:30 PM ARRC Seminar Rm	**Discussion Summaries + Close**
4:30-6:00 PM ARRC Seminar Rm	**Reception (wine and cheese)**

Descriptions

The Life & Times of John Bolton: Who he was and his impact on Astronomy
Ron Ekers

In the 1960's I was a PhD student of John Bolton. John was very well known as an astronomical pioneer through his discovery that the "radio stars" were extragalactic nebula and he was invited to Caltech's to build the Owens Valley Radio Astronomy Observatory. He returned to Australia in 1961 as the first director of the Parkes radio telescope. He played a major role in the discovery of QSO's and became one of the key scientists involved in the establishment of the Anglo Australian Observatory. John is perhaps best known as the "Dish Master" portrayed by Sam Neil in the movie "The Dish", however I will talk about the real John Bolton who was a very different character and the legacy of John Bolton's influence on both the AT and the AAO.

Discussion Sessions
Leaders: Katie, Shi, Tessa

These sessions are meant to bring everyone together to discuss current topics in astronomy. We took submissions of topics from ECRs (submitted during registration) and synthesized the following six topics/questions, which are broken down in those concerning culture in astronomy and those that are more focused on science and technical issues. Each group will report back with their ideas and potential future work.

1 – Culture

A. How should the astronomy community deal with transgressions?
B. What kind of power do we have as a scientist to make better/fairer the whole Science funding system?
C. Guidance towards permanent positions: career paths, opportunities, how to gain visibility

2 – Science/Technical

A. How to design algorithms to search for the unknown patterns that are usually missed by traditional methods?
B. How to best use GPUs, accelerate code, and/or parallelise code
C. Finding synergies in techniques and methods between different science areas: Transients and EoR

Talk Order

All talks listed in bold are ECR and will receive 5 min for their presentation + 1 min for questions, all others will receive 1 min. Please upload your slide(s) as a PDF with the following naming convention: *Firstname_Lastname*_Bolton2020.pdf

Name	Affiliation	Session	Title
Aidan Hotan	CASS	1	ASKAP and radio astronomy surveys
Alec Thomson	**CASS**	**1**	**Producing an all-sky RM grid**
Andrew Cameron	**CASS**	**1**	**Chasing new pulsars from the world's most sensitive telescopes**
Benjamin McKinley	**Curtin University**	**1**	**Measuring the global redshifted 21-cm signal using interferometers**
Catherine Hale	**CASS**	**1**	**Studying the Extragalactic Radio Continuum Sky**
Charlotte Sobey	**CASS**	**1**	**Investigating the ISM using polarised pulsars**
Chenoa Tremblay	**CASS**	**1**	**Is this Bump and Wiggle Real?**
Cormac Reynolds	CASS	1	High Frequency VLBI
David McConnell	CASS	1	Rapid ASKAP Continuum Survey - status
Dilpreet Kaur	**Curtin University-ICRAR**	**1**	**Chromatic dispersion in pulsars: how do we measure it reliably?**
Elaine Sadler	CASS	1	HI in the distant Universe
Emil Lenc	CASS	1	Mad science
George Heald	CASS	1	Broadband surveys for radio polarimetry
George Hobbs	CASS	1	Crazy applications of pulsar research
Georgios Bekiaris	**CASS**	**1**	**Galaxy kinematic modelling for everyone and everything!**
Guillaume Drouart	**ICRAR - Curtin University**	**1**	**The GLEAMing of the first supermassive black holes**
Ivy Wong	CASS	1	Galaxy evolution science in the ASKAP era
Jimi Green	CASS	1	Parkes' new technology!
Karen Lee-Waddell	**CASS**	**2**	**HI observations of ESO 601-G036**
Katie Jameson	**CASS**	**2**	**The challenges of interaction**
Nick Seymour	ICRAR/Curtin	2	My expertise
Phil Edwards	CASS	2	Radio observations of gamma-ray sources
Philippa Patterson	**ICRAR-UWA**	**2**	**A Low-Frequency Study of the Magellanic Clouds**
Rajan Chhetri	**CASS/ICRAR-Curtin**	**2**	**Scintillating science - compact objects at low radio frequencies**
Ramesh Bhat	Curtin University	2	Pulsar science with the MWA: opportunities and challenges
Robert Hollow	CASS	2	Astronomy Education
Ron Ekers	CASS	2	TBA

Rui Luo	**CASS/ATNF**	**2**	**A luminosity-guided discovery of a repeating FRB source using the FAST telescope**
Sam McSweeney	**ICRAR-Curtin University**	**2**	**Pulsar microstructure with the MWA**
Shi Dai	**CASS**	**2**	**Discovery of pulsars in the globular cluster Omega Centauri**
Shivani Bhandari	**CASS**	**2**	**Fast radio bursts with ASKAP**
Stacy Mader	CASS/Parkes	2	Dark gas in molecular clouds
Steve Prabu	**Curtin University**	**2**	**TBA**
Tessa Vernstrom	**CASS**	**2**	**Diffuse Radio Emission Below the Noise**
Tim Galvin	**CASS**	**2**	**Host galaxy identification and outlier detection with unsupervised machine learning**
Vanessa Moss	CASS	2	Adventures in the Milky Way and beyond, with a focus on radio telescopes
Xiang Zhang	**CASS**	**2**	**Broadband polarimetry of radio sources from the QUOCKA survey**