

Staying put post-PhD

Ilana Feain
ASKAP Project Scientist
CSIRO Astronomy & Space Science



From law to astronomy with thanks to...

DICK HUNSTEAD

ANNE GREEN

ATNF Vacation Program 1999/2000



The 2 body challenge

ME

Have PhD, can travel

HUSBAND

Have MBBS, can't travel

Bolton Postdoctoral Fellowship

Name	Years	now
Erwin de Blok	1999 — 2002	U. Capetown, South Africa
Steven Tingay	1999 — 2003	Premier's fellow, ICRAR/Curtin, WA
Tony Wong	2001 — 2003	UIUC, USA (1)
Naomi McClure-Griffiths	2001 — 2004	Science Leader CASS
Chris Phillips	2002 — 2005	CSIRO ATNF (3)
George Hobbs	2002 — 2005	QEII Fellow, CASS
Juergen Ott	2002 — 2006	Staff Scientist, NRAO, USA
DJ Pisano	2003 — 2004	West Virginia, USA
Enno Middelberg	2004 — 2007	Professor, U Bochum, Germany
Kate Brooks	2004 — 2007	Millimetre Scientist, CASS
Erik Muller	2005 — 2008	U Nagoya, Japan
Ilana Feain	2006 — 2008	ASKAP Project Scientist, CASS
Tobias Westmeier	2007 — 2010	ICRAR/UWA, WA
Bjorn Emonts	2008 —	
Shea Brown	2009 —	
Shari Breen	2010 —	
Keith Bannister	2011 —	



School girls join study to understand black holes and the birth of stars

August 28, 2007

in [2007 Fellows](#)

Black holes are some of the most bizarre objects in the universe. They can have as much mass as a billion stars combined. How did they form and how did they get so big?

“What are they doing to the galaxies in which they live?” asks Dr Ilana Feain of the CSIRO’s Australia Telescope National Facility.

This is one of the biggest questions facing astronomers in the 21st Century. The 29-year-old astronomer will use her L’ORÉAL Australia For Women In Science Fellowship in her quest for an answer to this question.

And she is enlisting two Australian girls’ schools to contribute to a 24/7 program to observe a ‘nanoquasar’ and its associated black hole some billion billion kilometres from Earth.

ASKAP Science Update

CSIRO Astronomy and Space Science

February 2014



CSIRO

The ASKAP Science Update is a regular series dedicated to conveying the latest news about the Australian SKA Pathfinder (ASKAP) project to the international science community. It is also available online at www.astro.csiro.au/projects/askap.

ASKAP Construction on Track

Construction of CSIRO's ASKAP radio telescope has begun in Western Australia.

The first of 36 antenna 'nodes' (units which detect and make up all of the signals being received and which are being assembled and installed on site) are being assembled at the Murchison Radio Astronomy Observatory in the northern region of Western Australia.

With the antenna feeding of nodes to begin soon the site of a 3.6 kilometre feeding cable network has been laid to 30 of the antenna positions. A further 60 will be laid in the next year.

In coming weeks construction will see additional feeding of the antenna of an antenna cable to CSIRO's radio astronomy research centre and the processing centre of the data located in the national data centre.



Assembly of the first ASKAP antenna node under construction. Credit: CSIRO pathfinder CSIRO



Lifting the antenna plant into feed housing. Credit: CSIRO pathfinder CSIRO

These antenna nodes are the first ASKAP antenna feeding infrastructure to be built in the Murchison Radio Astronomy Observatory. This is a complete antenna node project, also CSIRO ASKAP Project Director Steve DeRose.

The antenna has been designed and built by the CSIRO Research Centre of Space Technology Technology Group. Construction began in 2012. CSIRO awarded the contract for the design and construction of ASKAP's 36 antenna to CSIRO's radio science team after an international tendering process. Local contractors also assisted the team.

The CSIRO and CSIRO's construction team have made considerable progress including the first antenna node. The antenna is expected to be installed in the next few months.

The ASKAP antenna is an extremely innovative design. During the design phase, CSIRO's radio science team worked with the antenna design team to ensure

the antenna could be built in the field. The antenna nodes are designed to be built in the field. The antenna nodes are designed to be built in the field. The antenna nodes are designed to be built in the field.

Construction of the antenna nodes is well advanced. The first antenna node has been installed. The first antenna node has been installed. The first antenna node has been installed.

Over 300 ASKAP antenna nodes are being built. Over 300 ASKAP antenna nodes are being built. Over 300 ASKAP antenna nodes are being built.

As well as being a world leading research in radio astronomy, ASKAP will be an important tool for the international radio astronomy community.

For the purposes of the development and construction of ASKAP, visit www.astro.csiro.au/projects/askap



Payne-Scott Award – best practice

Lorentz center

Probing the Radio Continuum Universe with SKA Pathfinders

Workshop: 21 – 25 February 2011, Leiden, the Netherlands



Scientific Organizers

- Ray Noery, ASKAP
- Heide Ridgway, LOFAR
- Tom Dosterloo, APERTIF
- Joseph Lazio, SKA
- Kari van Heylandt, MeerKAT
- Jim Condon, EVLA
- Geoff Bowler, ATA
- Rob Beswick, MERLIN
- Philip Best
- Bryan Gaensler
- Andrew Hopkins
- Matt Jarvis
- Melanie Johnston-Hollitt
- Raffaella Morganti
- Fabio Pasyva
- Elaine Spiller

Topics

- Current Pathfinder Projects
- Evolution of Galaxies
- Clusters and Large-scale Structure
- Cosmology
- Transients & Variability
- The Radio Sky
- Polarisation
- Survey Quality
- Calibration & Imaging
- Source Extraction and Measurement
- Cross-identification
- Commensality and Synergy
- Lessons from Other Surveys

Lorentz center

www.lorentzcenter.nl

JEFF WAGG
ESO

MANUEL ARAVENA
NRAO

rex.
Regional Express



Australian ALMA community
workshop

May 5-6, 2011
CSIRO Astronomy and Space Science

Organizing committee
Jill Rathbone (chair)
Kate Brooks
Ilana Fissin
Bjorn Emonts
Shari Breen
Andrew Hopkins



Astronomy
Australia
Ltd.

Image Credit: ALMA (ESO / NAOJ / NRAO), J. Gaensler

KATHERINE BLUNDELL
Oxford

The 2.5 body challenge

- Working part time
- Daycare on specific days only
- Days off with a sick child
- Difficulty traveling due to husband's career

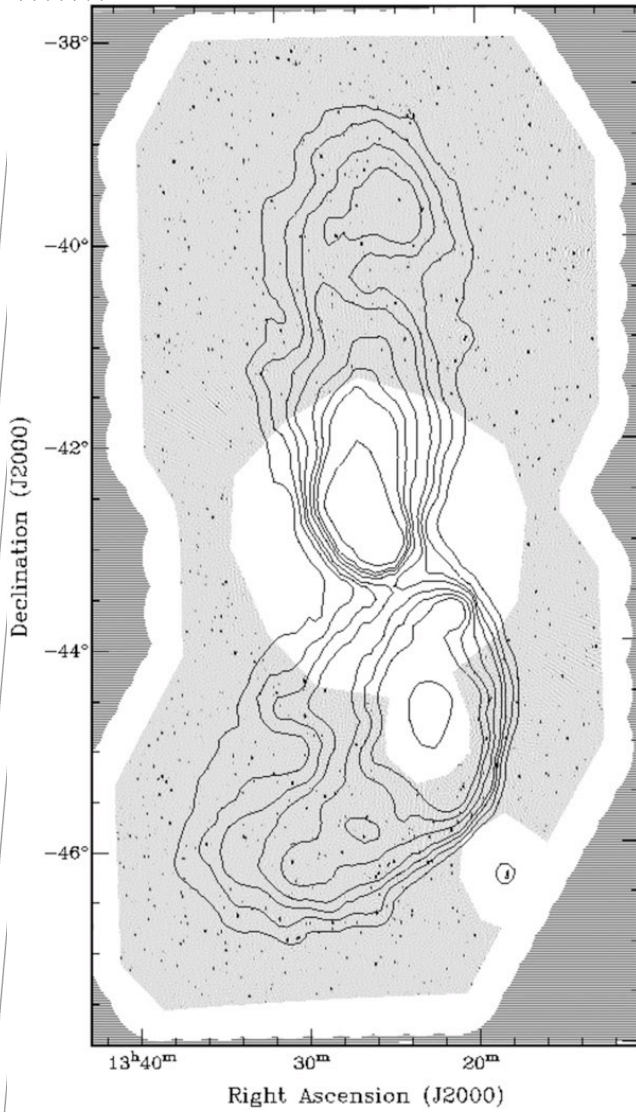


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**"Doctor, you have an emergency.
Call your office, please!"**

Astrophysics research scientist



Feain et al. ApJ 2009



Feain et al. ApJ 2011

Succeeding in astronomy with a *non-traditional* career path

- **Support from a mentor**
 - Self confidence, career aims
- **Support from your institution**
 - Flexibility, part-time hours, onsite daycare
- **Times have changed**
 - Wikis, video-con, Skype, EVO, etc
 - Australian astronomy is well positioned

www.csiro.au

Thank you

Contact Us

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