

REVISED PROGRAMME OF ORAL PRESENTATIONS 27th September 2007

Sunday 30th September

16:00 – 18:00 & 19:00 – 21:00 Evening welcome reception in the Reynolds Building,
Room C15.

Monday 1st October

SESSION 0: WELCOME ADDRESSES

08:45 – 08:50 **John Perkins**
Conference welcome

08:50 – 08:55 **Phil Diamond**
Conference motivation

SESSION 1: INSTRUMENTAL

Chair: **Phil Diamond**

08:55 – 09:10 **Richard Schilizzi**
The Square Kilometre Array

09:10 – 09:25 **Jason Spyromilio**
Extremely Large Telescopes

09:25 – 09:40 **Anthony Beasley**
The Atacama Large Millimeter Array: Overview & Status

09:40 – 09:55 **Jon Gardner**
The James Webb Space Telescope

09:55 – 10:10 **Simon Johnston**
Science with the Australian SKA pathfinder

10:10 – 10:25 **Justin Jonas**
MeerKAT science and technology

10:25 – 10:40 **Jim Ulvestad**
The EVLA as a scientific and technical pathfinder for the SKA

10:40 – 11:00 **MORNING COFFEE**

Chair: **Richard Schilizzi**

11:00 – 11:15 **Simon Garrington**
e-MERLIN

11:15 – 11:30 **Colin Lonsdale**
Science with the MWA

11:30 – 11:45 **Anne Green**
HI absorption studies of galaxies and the SKA Molonglo Prototype
(SKAMP) Project

11:45 – 12:00 **Ilse van Bemmell**
Ionospheric limits for LOFAR and SKA

12:00 – 12:15 **Douglas Bock**
Combined Array for Research in Millimeter-wave Astronomy

12:15 – 13:45 **LUNCH**

SESSION 2: PROBING THE DARK AGES

Chair: **Brian Boyle**

13:45 – 14:15 **Chris Carilli**
Observational review

14:15 – 14:45 **Andrea Ferrara**
The dazzling epoch of first galaxies

14:45 – 15:00 **Ger de Bruyn**
LOFAR and the search for HI at $z=6-11$

15:00 – 15:15 **Xiang-Ping Wu**
Probing the epoch of reionization with 21CMA: status and prospects

15:15 – 15:30 **Ilian Iliev**
Character and detectability of the dark ages and the epoch of reionization:
the view from the simulations

15:30 – 15:45 **Leon Koopmans**
Challenges in detecting the EoR with LOFAR

15:45 – 16:15 **AFTERNOON TEA**

SESSION 3: STRONG FIELD TESTS OF GRAVITY USING PULSARS & BLACK HOLES

Chair: **Luigina Feretti**

- 16:15 – 16:45 **Michael Kramer**
Strong-field tests of gravity using pulsars & black holes
- 16:45 – 17:00 **Fredrick Jenet**
Pulsar timing and gravitational wave detection
- 17:00 – 17:15 **Bernard Schutz**
Gravitational waves
- 17:15 – 17:30 **Andrea Possenti**
More and more radio pulsars: status of recent surveys and perspectives
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- 18:00 – 19:45 **EVENING MEETING: e-MERLIN Legacy Programme**
Held at the conference venue.

Tuesday 2nd October

SESSION 4: GALAXY EVOLUTION, AGN, COSMOLOGY & DARK ENERGY - I

Chair: **Michael Kramer**

- 09:00 – 09:30 **Carlos Frenk**
Galaxy formation in the cosmological paradigm
- 09:30 – 09:45 **Elaine Sadler**
The cosmic evolution of massive galaxies and radio-loud AGN
- 09:45 – 10:00 **Elias Brinks**
Fascinating THINGS
- 10:00 – 10:15 **Robert Minchin**
The Arecibo galaxy environment survey -
a sensitive survey for neutral hydrogen in the local Universe
- 10:15 – 10:30 **Thijs van der Hulst**
Accretion of cold gas in galaxies
- 10:30 – 11:00 **MORNING COFFEE**

Chair: **Jim Cordes**

- 11:00 – 11:15 **Lister Staveland-Smith**
Evolution of gas in galaxies
- 11:15 – 11:30 **Bjorn Emonts**
Large-scale HI and the evolution of radio galaxies:
a study at the sensitivity limit of current-day telescopes
- 11:30 – 11:45 **Eric Wilcots**
Evolution of gas content of galaxy counts
- 11:45 – 12:00 **Dhruba Saikia**
Episodic activity in radio galaxies or atomic gas in the central regions of galaxies
- 12:00 – 12:15 **Robert Braun**
Galaxy accretion and feedback at $z=0$
- 12:15 – 12:30 **Jeroen Stil**
Polarisation of mJy radio sources
Abstract on Page 99
- 12:30 – 14:00 **LUNCH**
- 14:00 – 15:00 **POSTER SESSION A AND AFTERNOON TEA**

SESSION 5: THE TRANSIENT RADIO UNIVERSE

Chair: **Steve Rawlings**

- 15:00 – 15:30 **James Cordes**
Axes of discovery: The time variable Universe
- 15:30 – 15:45 **Heino Falcke**
Detection of Ultra-High energy cosmic rays and neutrinos with radio telescopes
- 15:45 – 16:00 **Rob Fender**
The bursting and transient radio sky
- 16:00 – 16:15 **Olaf Scholten**
Ultra-high energy cosmic rays, entering a new era of astroparticle physics and detection techniques
- 16:15 – 16:30 **Andrew Lyne**
RRATs and intermittent pulsars
- 16:30 – 16:45 **Dave Jauncey**
Statistics of the MASIV 5 GHz VLA scintillation survey
- 16:45 – 17:00 **Clancy James**
UHE particle astrophysics with the SKA
- 16:45 – 17:00 **Michael Bietenholz**
VLBI supernova imaging in the present and with the SKA
- 19:00 – **EVENING PUBLIC LECTURE**
 Brian Boyle
 100 years of Radio Astronomy: A Future Perspective

Wednesday 3rd October

SESSION 6: GALAXY EVOLUTION, AGN, COSMOLOGY & DARK ENERGY - II

Chair: **Jill Tarter**

- 09:00 – 09:30 **Steve Rawlings**
Cosmology and galaxy evolution: prospects for transformational science
- 09:30 – 09:45 **Sarah Bridle**
Probing dark energy
- 09:45 – 10:00 **John Conway**
Radio properties of the young supernovae/SNR in Arp220
- 10:00 – 10:15 **Barney Rickett**
Cosmological decrease in brightness and angular broadening in the ionized inter-galactic medium detected in the MASIV quasar survey
- 10:15 – 10:30 **Ron Ekers**
AT20G: an all sky blind survey at 20GHz
- 10:30 – 11:00 **MORNING COFFEE**

Chair: **Xiang-Ping Wu**

- 11:00 – 11:15 **Kenneth Kellermann**
Exploring the microJy and nanoJy sky: From the VLA to the SKA
- 11:15 – 11:30 **Tom Muxlow**
The properties of the very weak radio sources population in the GOODS North field
- 11:30 – 11:45 **Ray Norris**
The evolving starburst-AGN connection
- 11:45 – 12:00 **Tom Dwelly**
Measuring the cosmic star-formation rate using deep radio studies
- 12:00 – 12:15 **Neal Jackson**
Radio studies of gravitational lensing and future telescopes
- 12:15 – 12:30 **Isabella Prandoni**
A view of the sub-mJy populations, modelling and perspectives for future deep surveys
- 12:30 – 12:45 **Ilana Feain**
A long overdue synthesis image of Centaurus A
- 12:45 – 14:00 **LUNCH**

Chair: **Bryan Gaensler**

- 14:00 – 14:15 **Ravi Subrahmanyan**
A deep survey of the low-surface-brightness radio sky
- 14:15 – 14:30 **Rob Beswick**
An evolution of the IR-Radio correlation?
- 14:30 – 14:45 **Matt Jarvis**
Multi-wavelength surveys towards the SKA-pathfinders

SESSION 7: THE CRADLE OF LIFE

Chair: **Bryan Gaensler**

- 14:45 – 15:15 **Guido Garay**
The birth of stars: Initial conditions and physical processes
- 15:15 – 15:30 **Freidrich Wyrowski**
mm/sub-mm observations of massive star forming regions
- 15:30 – 16:00 **AFTERNOON TEA**

Chair: **Ravi Subrahmanyan**

- 16:00 – 16:30 **Frank Shu**
Star formation and radio astronomy
- 16:30 – 16:45 **Jane Greaves**
Super-grains: seeds of planet formation
- 16:45 – 17:00 **Cormac Purcell**
The CORNISH survey of the Galactic plane
- 17:00 – 17:15 **Jill Tarter**
SETI observations with the SKA
- 19:30 – late **CONFERENCE DINNER**
Manchester Town Hall, Albert Square

Thursday 4th October

09:00 – 10:30	POSTER SESSION B
10:30 – 11:00	MORNING COFFEE
11:00	COACHES LEAVE FOR JODRELL BANK OBSERVATORY
Afternoon	50th ANNIVERSARY CELEBRATIONS AT JODRELL BANK OBSERVATORY

Friday 5th October

SESSION 8: THE ORIGIN & EVOLUTION OF COSMIC MAGNETISM

Chair: **Ron Ekers**

- 09:00 – 09:30 **Bryan Gaensler**
Revealing cosmic magnetism with radio polarimetry
- 09:30 – 09:45 **Philipp Kronberg**
Magnetic fields in the Universe and prospects for future probes
- 09:45 – 10:00 **Paul Alexander**
Probing the evolution of magnetic fields in clusters and galaxies
- 10:00 – 10:15 **Wouter Vlemmings**
Magnetic fields around evolved stars

10:15 – 11:00 **MORNING COFFEE**

Chair: **Luis Rodriguez**

- 11:00 – 11:30 **Kandaswamy Subramanian**
Magnetizing the universe
- 11:30 – 11:45 **Jin-Lin Han**
Faraday tomography for magnetic fields in our Galaxy and nearby Universe
- 11:45 – 12:00 **Timothy Garn**
Magnetic fields in star-forming galaxies at high and low redshift
- 12:00 – 12:15 **Mehreen Mahmud**
Evidence for the generation of helical magnetic fields in active galactic nuclei
- 12:15 – 12:30 **Tigran Arshakian**
The magnetic field models of galaxies with the SKA

12:30 – 14:00 **LUNCH**

SESSION 9: DISCOVERY SPACE

Chair: **Mike Garrett**

- 14:00 – 14:15 **Leonid Gurvits**
Space horizons of radio astronomy in the SKA era
- 14:15 – 14:30 **Peter Wilkinson**
Exploration of the unknown

SESSION 10: CONFERENCE SUMMARY

14:30 – 15:00 **Brian Boyle**
Conference summary

END OF CONFERENCE