

## ATNF ASTRONOMICAL SYNTHESIS IMAGING WORKSHOP PROGRAM

VENUE: Radiophysics Laboratory

Cnr. Pembroke St. & Vimiera Rd, Marsfield.

### Monday

Registration

|               |               |                                                |
|---------------|---------------|------------------------------------------------|
| 09:15 - 10:00 | (R.Ekers)     | a. Introduction/overview                       |
| 10:00 - 10:30 | Coffee        |                                                |
| 10:30 - 11:30 | (J.Uson)      | b. Basics                                      |
| 11:30 - 12:30 | Tutorials     |                                                |
|               |               | - Analogies and other disciplines              |
|               |               | - Basics                                       |
|               |               | - Special interests (*)                        |
| 12:30 - 13:30 | lunch         |                                                |
| 13:30 - 14:30 | (D.McConnell) | c. Interferometry                              |
| 14:30 - 14:45 | Coffee        |                                                |
| 14:45 - 15:30 | Tutorials     |                                                |
|               |               | - Interferometry                               |
|               |               | - Special lecture - Building the AT (J.Brooks) |
| 15:30 - 16:30 | (J.Reynolds)  | d. Monochromatic imaging                       |
| 16:30 - 17:00 | Tutorial      |                                                |
|               |               | - Imaging                                      |
|               |               | - Basics                                       |
|               |               | - Special Interests                            |

Reception .....

### Tuesday

|               |              |                                                  |
|---------------|--------------|--------------------------------------------------|
| 09:00 - 10:00 | (M.Kesteven) | a. Correlator                                    |
| 10:00 - 10:30 | Coffee       |                                                  |
| 10:30 - 11:30 | (A.Wright)   | b. Primary elements                              |
| 11:30 - 12:30 | Tutorials    |                                                  |
|               |              | - Correlator                                     |
|               |              | - Antennas                                       |
|               |              | - Special interests                              |
| 12:30 - 13:30 | lunch        |                                                  |
| 13:30 - 14:30 | (R.Sault)    | c. Deconvolution                                 |
| 14:30 - 14:45 | Coffee       |                                                  |
| 14:45 - 15:30 | Tutorials    |                                                  |
|               |              | - Deconvolution                                  |
|               |              | - Deconvolution movie                            |
|               |              | - Basics                                         |
| 15:30 - 15:50 | (N.Killeen)  | d. Synthesis software (Miriad)                   |
| 15:50 - 16:20 | (D.Bock)     | e. MOST                                          |
| 17:00         | (D. Crisp)   | Safa lecture (Jupiter Impacts) Sydney University |

## Wednesday

|               |                            |                             |
|---------------|----------------------------|-----------------------------|
| 09:00 - 10:00 | (M.Wieringa)               | a. Calibration/self-cal     |
| 10:00 - 10:30 | Coffee                     |                             |
| 10:30 - 11:30 | (T.Oosterloo)              | b. Spectral Line + Cal      |
| 11:30 - 12:30 | Tutorials                  |                             |
|               | - Self-cal                 |                             |
|               | - Spectral imaging         |                             |
|               | - Special interests        |                             |
| 12:30 - 13:30 | lunch                      |                             |
| 13:30 - 14:30 | (R.Sault)                  | c. Multifrequency synthesis |
| 14:30 - 14:30 | Coffee                     |                             |
| 15:30 - 16:30 | (N.Killeen)                | d. Polarisation             |
| 16:30 - 17:30 | Tutorials                  |                             |
|               | - Multifrequency synthesis |                             |
|               | - Polarisation             |                             |
|               | - Basics                   |                             |

BBQ

Evening lecture: "Is There Anybody Out There" ..... R.Norris

## Thursday

|               |                     |                       |
|---------------|---------------------|-----------------------|
| 09:00 - 10:00 | (J.Uson)            | a. Spectral Line (II) |
| 10:00 - 10:30 | Coffee              |                       |
| 10:30 - 11:30 | (W.Brouw)           | b. Mosaicing          |
| 12:15 - 12:45 | Tutorials           |                       |
|               | - Spectral line     |                       |
|               | - Mosaicing         |                       |
|               | - Coordinates       |                       |
|               | - Special Interests |                       |
| 12:30 - 13:30 | lunch               |                       |
| 13:30 - 14:30 | (R.Ekers)           | c. Image analysis     |
| 14:30 - 15:30 | Tutorials           |                       |
|               | - Image analysis    |                       |
|               | - Basics            |                       |
|               | - Special interests |                       |
| 15:30 - 16:00 | Coffee              |                       |
| 16:00 - 16:30 | (P.Hall)            | d. mm                 |
| 16:30 - 17:00 | (J.Davis)           | e. SUSI               |

## Friday

|               |                    |                              |
|---------------|--------------------|------------------------------|
| 09:00 - 10:00 | (A.Tsioumis)       | a. VLBI                      |
| 10:00 - 10:15 | Coffee             |                              |
| 10:15 - 11:30 | Tutorial           |                              |
| 11:30 - 11:50 | (R.Marson)         | b. Mappit                    |
| 11:50 - 12:20 | (G.Kossoff)        | c. Ultrasonics               |
| 12:30 - 13:30 | lunch              |                              |
| 13:30 - 14:00 | (M.Kesteven)       | e. Holography                |
| 14:00 - 14:30 | (L.Staveley-Smith) | f. SMC case study            |
| 14:30 - 15:00 | (A.Gray)           | g. Case Study (AT/Penticton) |
|               | Coffee/tutorial    |                              |

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(\*) "Special Interest" tutorials will be offered in response to popular demand expressed at the time. Some possible topics:

- Coordinates
- Real-Time (Remote Observing) .. AT
- Career prospects in astronomy
- Observing proposals