



Fifth NAIC/NRAO Single-Dish Summer School

Arecibo Observatory
July 12 – 18, 2009



Scientific Program

Sunday 12th July

- 1000 – 1400: Conference Registration in the Learning Centre
- 1400 – 1430: Welcome to Arecibo Observatory (Mike Nolan)
- 1430 – 1530: Radio Astronomy Fundamentals (Jim Condon)
- 1530 – 1600: Coffee Break
- 1600 – 1700: Introduction to Radio Telescopes (Frank Ghigo)
- 1700 – 1730: The Hands-On Projects; Organization and Logistics
- 1730 – 1900: Dinner
- 1900 – 0000: Hands-On Observing; Night 1

Monday 13th July

- 0700 – 0830: Breakfast
- 0830 – 0915: Why Single Dishes? (Chris Salter)
- 0915 – 1045: Basic Principles of Single-Dish telescopes (Jim Condon)
- 1045 – 1115: Coffee Break
- 1115 – 1200: Theory of Measurements (Brian Mason)
- 1200 – 1330: Lunch
 - 1300 – 1330: Lunch Talk - the Atacama Large Millimetre Array (Richard Prestage)
- 1330 – 1430: Tracing the Signal down the Telescope (Ron Maddalena)
- 1430 – 1530: Spectral lines (Harvey Liszt)
- 1530 – 1600: Coffee Break
- 1600 – 1730: Continuum (Brian Mason)
- 1730 – 1900: Dinner
- 1900 – 0000: Hands-On Observing; Night 2

Tuesday 14th July

- 0700 – 0830: Breakfast
- 0830 – 0930: Pulsars (Scott Ransom)
- 0930 – 1030: Polarization (Carl Heiles)
- 1030 – 1100: Coffee Break
- 1100 – 1200: Short Spacing Corrections from a Single-Dish Perspective (Roland Kothes)
- 1200 – 1330: Conference Photo followed by Lunch

- 1330 – 1400: An Introduction to IDL (Toney Minter)
- 1400 – 1500: GBT & Arecibo canned data reduction demo
- 1500 – 1530: Coffee Break
- 1530 – 1730: GBT & Arecibo canned data reduction hands-on practice, and/or “a show and tell” of various pieces of hardware for interested participants
- 1730 – 1900: Dinner
- 1900 – 0000: Hands-On Observing; Night 3

Wednesday 15th July

- 0700 – 0830: Breakfast
- 0830 – 1000: Hands-On Projects; Data reduction
- 1000 – 1030: Coffee Break
- 1030 – 1200: Hands-On Projects; Data reduction (Continued)
- 1200 – 1330: Lunch
- 1330 – 1430: Calibration Techniques at Radio Wavelengths (Ron Maddalena)
- 1430 – 1530: Special Considerations at Millimeter Wavelengths (Amy Lovell)
- 1530 – 1600: Coffee Break
- 1600 – 1700: Observing Extended Sources (Jay Lockman)
- 1700 – 1900: Dinner

Thursday 16th July

- 0700 – 0830: Breakfast
- 0830 – 1000: Hands-On Projects; Data reduction (Continued)
- 1000 – 1030: Coffee Break
- 1030 – 1200: Hands-On Projects; Data reduction (Continued)
- 1200 – 1330: Lunch
- 1330 – 1400: Planetary Radar Astronomy (Ellen Howell)
- 1400 – 1430: RFI and How to Deal with it (Toney Minter)
- 1430 – 1500: International Issues of Frequency Management (Harvey Liszt)
- 1500 – 1530: Coffee Break
- 1530 – 1615: Receivers and Focal-Plane Arrays (Steve White)
- 1615 – 1700: Large Area Surveys with Multi-frequency Array Receivers (Robert Minchin)
- 1800 – 2100: Conference Banquet with guest speaker (Carl Heiles)

Friday 17th July

- 0700 – 0900: Breakfast
- 0900 – 0930: Writing Effective Telescope Proposals (Chris Salter)
- 0930 – 1030: The Future of the GBT (Jay Lockman)
- 1030 – 1100: Coffee Break
- 1100 – 1200: The Future of the Arecibo 305-m Telescope (Don Campbell)
- 1200 – 1330: Lunch
- 1330 – 1530: Preparation for Hands-On Presentations
- 1530 – 1600: Coffee Break
- 1600 – 1730: Hands-on Presentations (6-min talks)
- 1730 – 1900: Dinner

Saturday 18th July

- Participants Depart

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Last updated: Friday, 10-Jul-2009 14:41:08 AST
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