

Agenda
ngVLA Technical Workshop #2
December 8-9, 2015
Socorro, NM

December 8

0800-0830 Coffee

Introductory Session (Moderator, Momjian)

0830-0840 Welcome and Logistics (McKinnon)

0840-0900 ngVLA Science Overview (Carilli)

0900-0920 Cradle of Life (Galvan-Madrid)

0920-0940 Galaxy Ecosystems (Hales)

0940-1000 Galaxy Formation (Riechers)

1000-1020 Time Domain, Cosmology, and Physics (Spolaor)

1020-1050 Break

1050-1110 ngVLA Technical Overview (McKinnon)

Computing Architecture (Moderator, Glendenning)

1110-1130 Overview of ngVLA Computing Concept (Kern)

1130-1200 Computing for ngVLA: Lessons from LSST (Kantor)

1200-1220 Impacts of Operations Models on Computing (Wise)

1220-1320 Lunch

1320-1340 Calibration Strategies and Options (Rupen)

1340-1400 Algorithm Advancement Needs (Bhatnagar)

1400-1420 Future Options for SKA-scale Astronomical Computing (Popping)

1420-1440 Discussion

1440-1500 Break

Operations Concept (Moderator, McKinnon)

1500-1510 Introduction (McKinnon)

Recommendations for Science Operations and User Support

1510-1540 ALMA Perspective (Hibbard)

1540-1610 JVLA Perspective (Chandler)

Recommendations for Array Operations and Maintenance

1610-1640 ALMA Perspective (Guniat)

1640-1710 JVLA Perspective (P. Perley)

1710-1740 ASKAP and ATNF Perspective (Bock)

1740-1800 Discussion

1830- Reception and Dinner

December 9

0800-0830 Coffee

Data Digitization and Transmission (Moderator, Langley)

0830-0900 Data Digitization and Transmission: Overview and Issues (Jackson)

0900-0930 Signal Organization for Long-Distance Transfer with Wide-Band Front Ends (D'Addario)

0930-1000 Radio over Glass, Analog or Digital? Progress from Australia (Beresford)

1000-1030 Break

1030-1100 Integrated Digitization with Unformatted Serial Data Transfer (Morgan)

1100-1130 Analog Device Ultra-Wideband ADC Technology Roadmap (Murden)

1130-1200 Discussion

1200-1300 Lunch

Time and Frequency Distribution (Moderator, Durand)

1300-1320 Time and Frequency Distribution: Overview and Issues (Selina)

1320-1340 ALMA Approach (Shillue)

1340-1420 Oscillators and Phase Noise from Low RF to Microwave Photonics (Rubiola)

1420-1500 Long-Haul Implementation of White Rabbit Ethernet for Fiber-Optic Synchronization of VLBI Stations (Koelemeij)

1500-1520 Discussion

1520-1540 Break

Workshop Summary (Moderator, McKinnon)

1540-1550 Computing Summary (Glendenning)

1550-1600 Operations Summary (McKinnon)

1600-1610 Data Transmission Summary (Langley)

1610-1620 Time and Frequency Distribution Summary (Durand)

1620-1640 Discussion

1640-1650 Next Steps (McKinnon)

Adjourn

December 10

VLA Tour (optional)

1300 Depart DSOC

1400 Tour VLA (Durand, Jackson, Langley)

1600 Depart VLA

1700 Arrive DSOC