PROGRAM AND SCHEDULE

Workshop sessions are held in the Brown-Alley Room, Weinstein Hall
Breakfasts and break refreshments are served on location in Weinstein Hall
Lunches are held in the Heilman Dining Center

Wednesday, July 19

8:30 am  Bus pick-up at Berkeley Hotel
9:00-9:30 am  Breakfast, pick up packets

INTRODUCTIONS

9:30-9:35 am  Jack Singal  Opening remarks
9:35-9:40 am  Patrice Rankine (Dean)  Welcome

SESSION I – OBSERVATIONAL HISTORY (Chair: Jack Singal)

9:40-10:10 am  Alan Kogut  Overview and Observational History of Isotropic Radio Signal
10:10-10:40 am  Dale Fixsen  ARCADE and Related Measurements
10:40-11:10 am  Coffee Break
11:10-11:40 am  Jayce Dowell  The LWA1 Low Frequency Sky Survey
11:40am-12:10pm  Discussion
12:10-1:30 pm  Lunch

SESSION II – KNOWN POPULATIONS (Chair: Ken Kellermann)

1:30-2:10pm  Jim Condon  The Contribution of Galaxies to the Background at 3 GHz
2:10-2:40 pm  David Ballantyne  The Contribution of Active Galactic Nuclei to the Excess Cosmic Radio Background at 1.4 GHz
2:40-3:00 pm  Discussion
3:00-3:20 pm  Coffee Break

SESSION III – SOME POSSIBLE POPULATIONS (Chair: Jim Condon)

3:20-4:10 pm  Tessa Vernstrom  *Diffuse Extragalactic Synchrotron Emission and the Radio Background*
4:10-4:40 pm  Tim Linden  *Dark Matter, Alven Acceleration, and the ARCADE-II Excess*
4:40-5:10 pm  Benjamin Harms  *Backgrounds Due to the Formation of Supermassive Black Holes in the Early Universe*

5:10-5:30 pm  Discussion
5:30 pm  Bus departs for Berkeley Hotel

**Thursday, July 20**

8:30 am  Bus pick-up at Berkeley Hotel
9:00-9:30 am  Breakfast

SESSION IV – LESSONS FROM OTHER WAVELENGTHS (Chair: Jack Singal)

9:30-10:00 am  (Marco Ajello)  *The Origins of the X-ray and Gamma-ray Backgrounds*
10:00-10:30 am  Student Presentations
10:30-11:00 am  Coffee Break

SESSION V – DIFFUSE SYNCHROTRON AND COSMIC RAYS (Chair: Al Kogut)

11:00-11:30 am  Nicolao Fornengo  *The Diffuse Galactic and Extragalactic Radio Emission*
11:30am-12:00 pm  Elena Orlando  *Synchrotron Radiation in the Context of Cosmic Ray Propagation Models*
12:00-12:30 pm  Marco Regis  *The Diffuse Radio Emission and Dark Matter*
12:30-2:00 pm  Lunch
2:00-2:30 pm  Discussion

SESSION VI – CONSTRAINTS I (Chair: Dale Fixsen)

2:30-3:00 pm  Eric Murphy  *The Far-Infrared/Radio Correlation and Halos*
3:00-3:30 pm  Coffee Break
3:30-4:00 pm  Jack Singal  *Test of Simple Galactic Origin Models*
4:00-4:30 pm  Al Kogut  

**PIXIE: Mission Concepts and Potential RSB Constraints**

4:30-5:00 pm  Discussion

5:30 pm  Bus departs for Berkeley Hotel

**Friday, July 21**

8:30 am  Bus pick-up at Berkeley Hotel

9:00-9:30 am  Breakfast

**SESSION VII – RADIO BACKGROUND AS FOREGROUND** (Chair: Eric Murphy)

9:30-10:30 am  Raul Monsalve  

*Synchrotron Radiation as a Foreground to the Global Redshifted 21-cm Measurement by EDGES*

10:30-11:00 am  Coffee Break

11:00-11:30 am  Phillipp Mertsch  

*Galactic Radio Loops*

11:30 am -12:00 pm  Discussion

12:00-1:00 pm  Lunch

**SESSION VIII – ANISOTROPY** (Chair: Ted Bunn)

1:00-2:00 pm  Gil Holder  

*Too perfect? Where are the fluctuations? Attempting to measure the power spectrum of radio anisotropies by quadratic estimator.*

1:30-2:00 pm  Lenon Xu

2:00-2:30 pm  Discussion

**SESSION IX – POSSIBLE FUTURE MEASUREMENTS**

2:30-3:30 pm  Jim Condon  

Al Kogut  

Gil Holder  

Nicolao Fornengo  

*Panel and Audience Discussion of Possible Future Measurements*

Facilitator: Ken Kellermann

(Coffee and refreshments also served)

3:30-4:00 pm  Summary, Final Business

4:30 pm  Bus departs for Berkeley Hotel