FINAL AGENDA

The Second Summer CEDAR Workshop

June 29-July 2, 1987

Hosted by the High Altitude Observatory, National Center for Atmospheric Research

Morning Sessions - Main Seminar Room

Morning Video Viewing of Morning Sessions- Damon Rooms North & South Afternoon Video Replay of Morning Sessions - Damon Room North (Lounge) Poster Papers* - Chapman Room

Afternoon Group Sessions

Main Seminar Room, Damon Room South, Director's Conference Room, Captain Mary Room, & Fleischmann Building-Walter O. Roberts Board Room

Monday, June 29

8:00-8:30	Introduction. G. Romick, R. Anthes, P. Gilman					
8:30-9:30	Tutorial: Magnetospheric/Ionospheric Coupling. Speaker: G. Siscoe					
9:30-10:15	5 National Science Foundation. Speaker: E. Bierly					
10:15-10:30	Break: Second floor near the Main Seminar Room.					
	MAGNETOSPHERIC/IONOSPHERIC COUPLING Chairperson: O. Beaujardiere					
10:30-10:50	Large-Scale Convection and Precipitation. Summary of objectives and accomplishments.					
10:50-11:10	Substorm Morphology. Summary of objectives and accomplishments.					
11:10-11:30	Gobal Ionospheric Modeling. Summary of objectives and accomplishments.					
11:30-11:50	Penetration of Electric Fields at Lower Latitudes. Summary of objec- tives and accomplishments.					
11:50-12:15	Concluding Remarks and Future Developments.					
12:15-1:30	Lunch					
1:30-4:30**	Workshop Group Sessions. See page 5.					
4:30-6:00	CEDAR Data Base. Chairperson: R. Sica					

^{*}Papers may be posted in the Chapman Room from Monday noon to Thursday at 5:30 P.M. There should be sufficient time for viewing during morning breaks and the afternoons.

^{**}Refreshments will be available from 1:00 P.M. to 5:30 P.M. on the second floor near the Main Seminar Room.

Tuesday, June 30

8:30-9:30	Tutorial: Gravity Waves. Speaker: C. Hines				
9:30-10:15	Organization Plenary Session				
10:15-10:30	Break: Second floor near the Main Seminar Room.				

LOWER THERMOSPHERIC COUPLING

Chairperson: J. Forbes

10:30-10:45 Waves and Turbulence and their Roles in Coupling the Middle Upper Atmosphere. D. Fritts					
10:45-10:55	Questions and Discussion				
10:55-11:10	Problems in Mesospheric/Thermospheric Dynamical/Chemical Coupling. R. Garcia				
11:10-11:20 Questions and Discussion					
11:20-11:35 Research Problems in E-Region Electrodynamics. A. Richmond					
11:35-11:45	Questions and Discussion				
11:45-12:00	The Propagation of Tides from the Middle to Upper Atmosphere. J. Forbes				
12:00-12:15	Questions and Discussion				
12:15-1:30	Lunch				
1:30-5:00**	Workshop Group Sessions. See page 5.				
5:15-5:30 Board buses at east end of NCAR parking lot for Flagstaff M tain barbecue.					

^{**}Refreshments will be available from 1:00 P.M. to 5:30 P.M. on the second floor near the Main Seminar Room.

Wednesday, July 1

8:30-9:30	Tutorial: Optical Techniques. Speaker: G. Sheppard				
9:30-10:15	Organization Plenary Session				
10:15-10:30	Break: Second floor near the Main Seminar Room.				

LARGE-SCALE THERMOSPHERIC DYNAMICS Chairperson: T. Killeen

10:30-10:32 Introductory Remarks. T. Killeen

Theoretical Uncertainties Requiring Global-Scale Experimental Constraints10:32-10:47Neutral Composition Dynamics and Energetics. R. Roble10:47-11:02Thermospheric/Ionospheric Coupling. D. Rees, T. J. Fuller-Rowell11:02-11:12Empirical Modeling of Dynamics. T. Killeen

Experimental Results of Past Campaign Efforts: Science Synthesis and Identification of Outstanding Questions Requiring Collaborative Study.

11:12-11:27	High Latitude Circulation and Ion/Neutral Coupling. R. Smith					
11:27-11:42	:27-11:42 Fabry-Perot/IS Radar Science. J. Meriwether					
11:42-11:57	Radar Chain Measurements of Meridional Thermospheric Winds. V. Wickwar					
11:57-12:07	Ionosonde Measurements of DynamicsA Global-Scale Diagnostic Technique. K. Miller					
	Towards the Future: GITCAD					
12:07-12:17	The CEDAR-GITCAD ProgramPreliminary Results and Future Plans. M. Biondi					
12:15-1:30	Lunch					
1:30-5:30**	Workshop Group Sessions. See page 5.					
5:30-6:30	Cocktail Hour at NCAR. Second floor hall, at top of stairs near Main					

8:00-9:00 Roundtable Open Discussion.

6:30-8:00

Seminar Room.

Buffet dinner at NCAR. Cafeteria.

^{**}Refreshments will be available from 1:00 P.M. to 5:30 P.M. on the second floor near the Main Seminar Room.

Thursday, July 2

8:30-9:45	Tutorial: Middle Atmospheric Radars. Speaker: R. Vincent Tutorial: Incoherent-Scatter Radars. Speaker: R. Behnke				
9:45-10:15	Discussion				
10:15-10:30	Break: Second floor near the Main Seminar Room.				

ATMOSPHERIC COMPOSITION, EMISSIONS, AND IMAGING Chairperson: A. Christensen

10:30-10:32					
10:32-11:02					
	Imaging, Spectroscopy, and Incoherent Radar Investigations of Polar Cap Sun-Aligned Arcs				
11:02-11:32	Scientific Issues, Measurement Objectives, Electrodynamics. H. Carlson				
11:32-11:47 Optical and Radar Characterization of Energetic Particle F A. Christensen					
11:47-12:02	Ground-Based Imaging. S. Mende, G. Swenson				
12:02-12:17 Satellite-Based Imaging (VIKING). A. Vallance-Jones, R. Gattinger					
12:15-1:30	Lunch				
	Workshop Summary and Plans for FY 1988				
1:30-3:00**	Reports from Workshop Group Session Chairpersons.				

3:00-3:30	Break

3:30-5:00	Data	Base	and	Future	Directions.

^{**}Refreshments will be available from 1:00 P.M. to 5:30 P.M. on the second floor near the Main Seminar Room.