

1993 Annual CEDAR Meeting Agenda
Sponsored by NSF, HAO/NCAR, U of CO, and NIST

Monday, June 21, 1993 - NIST Auditorium

Chairman: M. Kelley, Cornell University

8:30 - 9:15 Introduction and Welcome - M. Kelley
 (NSF-R. Behnke, NCAR-G. Brasseur, HAO-T. Holzer,
 students, post-docs)

9:15 - 9:30 NASA Space Physics Division - G. Withbroe

9:30 - 10:15 Tutorial Lecture #1
 J. Forbes - Tides and Global Oscillations

10:15 - 10:45 Break

Chairman: R. Smith, University of Alaska

10:45 - 11:00 HAARP Diagnostics: A Possible Role for CEDAR
 Sciences in Alaska - H. Carlson

11:00 - 11:15 Polar Cap Initiative - M. Kelley

11:15 - 11:30 Canadian Network for Space Research - L. Cogger

11:30 - 12:00 Project 1: Middle Atmosphere Study (30-100 km)
 - R. Lowe

12:00 - 1:30 Lunch

1:30 - 4:15 Workshops at NIST

4:30 - 6:30 Poster Session A at NCAR Mesa Lab
 and Reception

Tuesday, June 22, 1993 - NIST Auditorium

Chairman: R. Robinson, National Science Foundation

8:30 - 9:00 NSF/CEDAR Issues - R. Behnke

9:00 - 9:45 Tutorial Lecture #2
R. Meier - UV Spectroscopy

9:45 - 10:00 Break

Chairman: R. Behnke, National Science Foundation

10:00 - 12:30 CEDAR 10th Anniversary Celebration
A light-hearted look at:
Conception - M. Biondi
Early Days - G. Romick
NSF Perspective - R. Behnke
Growth of Program - T. Killeen
From Student to CEDAR Awardee - J. Thayer
LTCS Campaigns - J. Salah
GISMOS Campaigns - O. De la Beaujardiere
GTMS ETS GTS GITCAD CADITS CAT Campaigns -
A Retrospective of Collaborative Thermospheric
Studies - M. Hagan
AIDA Campaigns - J. Meriwether
Present Days - M. Kelley

12:30 - 1:30 Lunch

1:30 - 5:30 Workshops at Foothills

Extra-Curricular Extra-Fare Activity
5:11 - 6:16 Buses leave Boulder bus terminal for Stadium
7:05 - ? Colorado Rockies vs Cincinnati Reds Baseball Game

Wednesday, June 23, 1993 - NIST Auditorium

Chairman: M. Larsen, Clemson University

8:30 - 9:00 CEDAR Prize Lecture
J. Cho - Radar Scattering from the Coldest Place
in Our Atmosphere: Polar Mesosphere Summer Echoes

9:00 - 9:45	Tutorial Lecture #3 R. Walterschied - Gravity Waves
9:45 - 10:00	Break
10:00 - 12:15	Poster Session B at NIST
12:15 - 1:30	Lunch
1:30 - 5:30	Workshops at Foothills
6:00 - 8:30	Italian dinner at NCAR Mesa Lab

Thursday, June 24, 1993 - NIST Auditorium

Chairman: S. Basu, National Science Foundation

8:30 - 8:45	R. Robinson - Results of NSF CEDAR Survey
8:45 - 9:15	Reports from CEDAR Post-Docs (J. Sahr, D. Senft) (C. Peymirat as a poster)
9:15 - 10:00	Tutorial Lecture #4 G. Rostoker - Geomagnetic Substorms
10:00 - 10:15	Break

Chairman: T. Killeen, University of Michigan

10:15 - 10:30	Large Atmospheric Observatory - C. Gardner
10:30 - 12:30	UARS Reports (30 minutes each) Solar UV Variations - G. Rottman PEM - D. Winningham HRDI - P. Hays WINDII - G. Shepherd
12:30 - 2:00	Lunch
2:00 - 6:00	Workshops at Foothills

Friday, June 25, 1993 - NIST Auditorium

Chairman: O. de la Beaujardiere, SRI International

8:30 - 9:15 Various Reports
F. Marcos - ADS
R. Meier - RAIDS
T. Killeen - TIMED
L. Cogger - FREJA

9:15 - 10:00 Tutorial Lecture #5
D. Torr - The Photochemistry of the Lower
Thermosphere and Mesosphere: What Has
Been Achieved and What Remains to Be Done

10:00 - 10:15 Break

Chairman: C. Tepley, Arecibo Observatory

10:15 - 11:00 Various Reports
G. Hernandez - Optical Observations
of Southern Hemisphere Dynamics
J. Olivero - POAM II (aerosols and ozone)
GEM report
Other reports as requested

11:00 - 11:15 CEDAR Data Base Report - B. Emery

**11:15 - 12:00 Poster Prize Awards, Future Plans for CEDAR,
Concluding Remarks**

12:00 - 1:30 Lunch

1:30 - 5:30 Workshops at Foothills

SCHOOL ON TIME SERIES ANALYSIS
A One-Day Data Analysis School
Saturday, June 26, 1993
NIST Auditorium, Boulder, CO
Coordinator: Jeff Forbes

Sponsored by the CEDAR Workshop
and In Conjunction with
The GEM Workshop (June 28-July 1, 1993)

Tutorial lectures will be given on analyses of data time series from a practitioner's point of view. Time limitations preclude an exhaustive treatment of this extensive subject; however, for those without formal training in digital signal processing who are (or plan to be) engaged in analyses of data time series (perhaps using commercially-available software packages), this course will provide insight into the power and pitfalls of several popular methodologies. A common geophysical data set will be analyzed by all speakers to illustrate various points.

<u>Time</u>	<u>Topic</u>	<u>Speaker</u>
8:30	I. Introduction to the Fourier Transform -Fourier series -Continuous transform -Discrete transform -Autocorrelation functions and power spectra -Windowing	Prof. R. Clark U. New Hampshire
10:00	Break	
10:30	II. Error Analysis and Other Topics -Periodogram -Confidence and significance limits -Cross-correlation and cross-spectra	Prof. S. Avery U. Colorado
12:00	Lunch	
1:30	III. Filtering -Types of filters -Problems and pitfalls (ringing, phase distortion, etc.) -Complex demodulation -Sliding FFT	Prof. R. Vincent U. Adelaide
3:00	Break	
3:30	IV. Nonstationary Time Series -One or more of these topics: CNRS/LMD Wavelets Multispectral analysis	Dr. F. Vial
5:00	Panel Discussion	
5:30	Adjourn	