

THE CEDAR POST

Quarterly (or as needed) Newsletter for the
CEDAR AERONOMY COMMUNITY

No. 1

Editor - G. J. Romick

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NEWSLETTER:

In discussing the future and planning for the annual workshop, it was decided that we needed something like a quarterly newsletter to keep everyone informed of our activities. I have taken the initiative with this first issue of the "CEDAR POST." (C.P.) I need people to send announcements of meetings, suggestions for future campaigns, etc. that you feel should be brought before the general community. We plan to circulate copies of the C.P. to our "foreign" colleagues in hopes of getting announcements of opportunities to allow us to cooperate with some of their initiatives. The basic purpose of the C.P. is information.

CEDAR REPORTS

The results of the individual subcommittees heroic efforts and the persistence of the steering committee have culminated in a two volume report. The first volume is short (< 40 pages) and presents the basic scientific goals in a three phase program extending into the early 90's. The types of facilities needed and the overall program plan and conceptual budget are outlined. Most members of the aeronomy community that may have interest in CEDAR are being sent a copy (March/April) when we get it from the printers.

The second volume (~ 400 pages) is a compendium of the individual subcommittee reports, each of which goes into detail on the science

issues and facility requirements in terms of upgrade, station location and development of Class I 1990 State-of-the-art instruments. At least one copy will be sent to each group interested in CEDAR. Additional copies of both Volume I and II will be available from the Steering Committee Chairman (G.J.R.). A brief report and announcement will be in a near future edition of EOS.

ANNUAL WORKSHOP:

The next GBOA/CEDAR workshop is scheduled for the last week of July in Boulder, Colorado. Some travel money will be available for students, invited speakers and others in need. This time such funds (about \$5,000) will be dispersed by the Steering Committee and not the workshop organizer. Consequently, please send in your requests to G.J.R., etc. We will give about \$250 per graduate student and of the remaining funds a similar amount to investigators in need. This is a legitimate travel charge against existing N.S.F. Aeronomy grants and should be so allocated in your future proposals. Art Richmond has volunteered to host the Boulder meeting, so he will send information out to you on logistics, etc.

Preliminary Agenda

Monday, July 28th Morning

Introduction/Welcome and User

Friendly Models

8:30-10:00 a.m.

Break

10:00 - 10:30 a.m.

Detector and Instrument Tests

10:30 - 12:00 a.m.

Lunch

12:00 - 1:30 p.m.

Afternoon

Thermospheric F-Region Global Studies

1:30 - 3:00 p.m.

Break

3:00 - 3:30 p.m.

Mesopause Coordinated Observational Programs

3:30 - 5:00 p.m.

Tuesday July 29th Morning

F-Region Interferometer-Incoherent

Scatter Radar Studies

8:30 a.m. - 12:00 p.m.

Lunch

12:00 - 1:30 p.m.

Afternoon

Joint Optical-Incoherent Scatter
Radar and Theoretical Auroral
Studies

1:30 - 5:00 p.m.

Dinner 7:00 - 9:00 p.m.

Wednesday July 30th Morning

Data Management/Handling

8:30 a.m - 12:00 p.m.

Lunch

12:00 - 1:30 p.m.

Afternoon

Future Campaigns

1:30 - 5:00 p.m.

PRESENT CAMPAIGN ACTIVITIES:

Currently two CEDAR associated campaigns are taking place. One involves the F.P. interferometers and is aimed at getting simultaneous, neutral wind and temperature data from multiple stations for input into some of the global models. During January there was an additional period including coordinated Incoherent Scatter Radar observations. The other is a mesopause observational program involving OH photometric and spectrophotometric temperature and intensity measurements, as well as Lidar MST etc., measurements that hopefully we can put together to get an initial glimpse of global scale activity in the lower thermosphere-mesopause and begin to set up coordinated observing programs. Hopefully these programs will continue through April or May. The C.P. should also be used to acquaint people with available data bases and who to contact etc., for collaborative programs. On the above two topics, the contacts are Roger Smith on the 1st and Jerry Romick on the latter.

The United States Air Force Geophysics Laboratory LASER LIDAR is now operating at Poker Flat Research Range through mid-March 1986. Dr. Russ Philbrick (617) 861-4944 of AFGL is the contact for further information. Dr. Dave Fritts (907) 474-7845 of the Geophysical Institute of the University of Alaska has developed and will be implementing an observational plan for simultaneous data taking with the Poker Flat Mesospheric-Stratospheric-

Tropospheric Radar system. He is the contact for further information on that system. Balloon rawinsonde, meteorological rocket datasonde and meteorological rocket robin sphere data acquisition support is being provided by Poker Flat to cover standard meteorological parameters to 110 kilometers. Dr. Philbrick will be the final source for these data too. In addition, far-infrared OH data are being taken by the UTAH STATE University WAMI system and near-infrared OH data from the University of Alaska spectrometer system at Poker Flat.

One focus of this field program will be to study variations in the density of the 60 to 80 kilometer region above the earth's surface as they relate to Shuttle Reentry.

MISCELLANEOUS ANNOUNCEMENTS:

A meeting of general interest is the European Optical Meeting in Cambridge August 18-22, 1986. The CEDAR program will be presented to our European colleagues at that time.

It should be obvious to any who read the CEDAR reports that the overall science requires collaborative programs using a variety of tools, not just optical systems. Consequently, this originally optical initiative has been expanded and the C.P. will be sent to most members of the aeronomy community and will accept information and contributions from everyone on anything that may be of interest to CEDAR participants.

Members of the new Steering Committee are G. J. Romick, Chairman, Tim Killeen, Brian Tinsley, John Foster, David Fritts, Andy Christensen, Doug Torr, and Susan Avery. The current plan is membership on the committee for two years with 4 members replaced every year.

ISSUE SAGE: Let us move beyond the re-invention of the wheel, developing existing models from scratch or designing software and instruments already in use.