

The Cedar Post

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

No. 3

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NEWSLETTER CIRCULATION:

Our mailing list now includes over 300 scientists in the U.S. and abroad.

A CEDAR article appeared in the January 13th issue of EOS with a CEDAR color cover. There should also be a CEDAR newsbrief in the late January or early February EOS.

NEWS FLASH - CEDAR is now considered to be a part of the NSF Global Geoscience Initiative. We should expect significant incremental funds in the Aeronomy and UAF FY 88 budgets for CEDAR.

PROPOSALS - Submit Proposals NOW!

It is important for CEDAR related proposals to be submitted as soon as possible to the Aeronomy Program for both FY 87 and FY 88 funding. All campaign coordinators should encourage their contributing units to submit proposals for their campaign activities at least 9 months prior to need. It may be the case that none of the individual segments of a campaign may be funded unless all components are simultaneously available for review. One way to ensure this, is for all coordinators to assemble the individual proposals for their campaign and submit them to NSF together. All others wishing to submit proposals for new CEDAR instruments, software development and facilities should get their proposals in as soon as possible. We need excellent proposals and timely reviews to help speed up the NSF

processing time and make the system more responsive to our needs. Remember, if you have had a recent proposal turned down for lack of funds, revise the proposal and re-submit it to the program.

ANNUAL WORKSHOP

The annual workshop is planned for June 29 - July 2 at NCAR. The weekly format is shown in the enclosed listing. The basic concept is to have tutorials in the morning by distinguished experts in their fields. These would be followed by discussion sessions and then science sessions relevant to the tutorial. The afternoon sessions, as well as the prior Saturday, Sunday and following Friday will be open for workshops and working group meetings, hikes, swimming, etc. In order to set these up with few parallel sessions of similar topics, we need to know what workshops are desired, how long per session, how many sessions you need and how many people might attend. June 27 (Saturday), June 28 (Sunday), and July 3 (Friday) are available for larger workshops which convenors might wish to set up. Anyone wishing to convene a workshop must inform John Foster (or any of the other members of the annual workshop committee - Avery, Christensen, Killeen) of your desires by April 15, 1987 to allow proper scheduling of rooms, needs, supplies, etc. This is your opportunity to get your colleagues together around a table and discuss campaign planning, scientific details of some topic, details of a proposal, report or publication, etc.

INCOHERENT SCATTER RADAR-FPI COORDINATED CAMPAIGN WORKSHOP

Roger Smith - Convenor
(To take place Tuesday and Wednesday afternoons at the Boulder CEDAR meeting, June 1987).

The data collection for this period includes very good coverage from the 6 IS stations, most northern polar FPI stations and one from Australia. The geomagnetic activity was low, providing quiescent conditions with small excursions. This contrasts with the conditions of many previous studies when the interest was in active and disturbed conditions. The workshop will feature activities synthesizing the data in an effort to assemble the information with current simulations and theories. The data will be circulated in summary form before the meeting using common formats. Participants will be expected to be familiar with the observations; there will not be a symposium component to the workshop.

GISMOS WORKSHOP

Odile de la Beaujardiere - Convenor

Progress in our understanding of substorms, can only be achieved by carefully planned coordinated experiments. GISMOS - Global Ionospheric Study and Measurement of Substorms - are collaborative experiments to study substorms and their global effects in the Polar regions, as well as in mid- and equatorial latitudes. These experiments take advantage of the 2 chains of ISR's. Five GISMOS campaigns have taken place

- 1) 16-19 January, 1984
- 2) 23-25 July, 1984
- 3) 19-22 March, 1985
- 4) 1-4 April 1986
- 5) 23-26 September 1986

A workshop on the GISMOS Experiments will take place in conjunction with the Annual CEDAR Workshop. One focus of the GISMOS workshop will be the interface between the observations and theoretical models, and the interaction of the models with each other. A second focus will be the study of the transition from geomagnetic quiet to active conditions. One or two specific substorm events will be used for detailed case studies of the transient response of the Magnetosphere-Ionosphere system. Viking and PROMIS data will be used in conjunction with the ground based observations.

Tentative dates selected are June 27-29, 1987 in Boulder, Colorado. Participation will be international with representatives from the magnetospheric, as well as ionospheric and aeronomy communities.

CEDAR IS LOOKING FOR A LOGO

Please submit your ideas to any of the annual workshop committee members (Avery, Christensen, Foster, Killeen) by April 30, 1987. Selection of the winner will be announced at the annual meeting and various items bearing this logo will be available for purchase. We need hype and P.R., so think up a good design. The winner will get a special prize at the annual meeting.

GRADUATE STUDENTS

You are encouraged to attend the CEDAR annual workshop. Please send your intent and estimate of travel and expenses, if necessary, to one of the annual meeting committee members (Avery, Christensen, Foster, Killeen) by April 30, 1987.

NEW CEDAR STEERING COMMITTEE MEMBERS

At the annual meeting, the terms of three current members of the Steering Committee will expire - S. Avery, D. Torr and J. Foster. These individuals have volunteered to act as a nominating committee and will submit their recommendations to the NSF Aeronomy Program Director for his selection of three new members for a 2 year term of office. Anyone interested in a position on the Steering Committee or wishing to nominate someone else, please contact the nominating committee. The selection of the new members will be announced at the annual meeting at which time they will take their places on the committee. In addition, the committee will pick a chairman elect who will take over from the current chairman at the 1988 annual meeting. The outgoing chairman will stay on the Steering Committee for an additional year to ensure continuity.

GITCAD CAMPAIGN

The basic aim of this program is to simultaneously determine, on a global scale, the dynamic response of the neutral thermosphere and F region ionosphere to forcing by solar EUV, precipitating particles, electric fields, gravity waves, tides, etc. Emphasis is placed on neutral-plasma coupling effects. Model predictions

are to be tested against the observations. The first campaign key period is scheduled for January 27-30, 1987. This involves many of the ISR's and FPI's and other optical systems. For more information, contact coordinators, Biondi, Smith or Wickwar.

CEDAR ANNUAL WORKSHOP AGENDA

June 27, 28 & July 3 - WORKSHOP SESSIONS ALL DAYJune 29 - Monday

8:00 - 8:30	Introduction
8:30 - 9:30	Tutorial - Magnetosphere/Ionosphere Coupling Speaker - Banks
9:30 - 10:15	NSF Speaker - Bierly
10:15 - 10:30	BREAK
10:30 - 12:15	Magnetosphere/Ionosphere Coupling Chairperson - Odile de la Beaujardiere
12:15 - 1:00	LUNCH
1:00 - 4:00	WORKSHOP SESSIONS
4:00 - 5:00	Organization Plenary Session

June 30 - Tuesday

8:30 - 9:30	Tutorial - Gravity Waves Speaker - Hines
9:30 - 10:15	Plenary
10:15 - 10:30	BREAK
10:30 - 12:15	Lower Thermosphere Coupling Chairperson - Forbes
12:15 - 1:00	LUNCH
1:00 - 5:00	WORKSHOP SESSIONS

July 1 - Wednesday

8:30 - 9:30	Tutorial - Optical Techniques Speaker - Shepherd
9:30 - 10:15	Plenary
10:15 - 10:30	BREAK
10:30 - 12:15	Large Scale Thermosphere Dynamics Chairperson - Killeen
12:15 - 1:00	LUNCH
1:00 - 6:00	WORKSHOP SESSIONS
6:00 - 8:00	BANQUET
8:00 -	ROUNDTABLE OPEN DISCUSSION

July 2 - Thursday

8:30 - 9:45	Tutorial - Middle Atmosphere Radars Speaker - Vincent(?) Incoherent Scatter Radars Speaker - Behnke
9:45 - 10:15	Discussion
10:15 - 10:30	BREAK
10:30 - 12:15	Atmos. Composition, Emissions and Imaging. Chairperson - Christensen
12:15 - 1:00	LUNCH
1:00 - 5:00	Plans for FY 88

**SCHEDULED SUNDIAL CAMPAIGN PERIODS
THROUGH SOLAR MAXIMUM
(Each Campaign Involves a Minimum of 8 Days of Solar-Terrestrial Data Acquisition)**

	1986			1987			1988			1989			1990			1991				
	1	3	6	9	12	1	3	6	9	12	1	3	6	9	12	1	3	6	9	12
SEPT. EQUINOX	▲				▲			▲			▲			▲			▲			▲
N. SUMMER S. WINTER	X										X									
MARCH EQUINOX								X												X
S. SUMMER N. WINTER														X						X

Planning schedule for continuing SUNDIAL campaigns up to and including the maximum of solar cycle 22. Each campaign involves a minimum of 8-days of continuous ionosphere observations with a specification that the period of observation include the three World Days in the month of the investigation (unless circumstances dictate otherwise). The solar-minimum campaign of 1986 was 14 days in duration, having covered the period 22 September through 4 October. Analysis for that campaign is underway.