

STAFF NOTES

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

Vol. 16, No. 46

25 November 1981

ANNOUNCEMENTS

EAC NEWS

The Employee Activities Committee (EAC) would like to remind NCAR staff of the upcoming EAC-sponsored Children's Holiday Party, which will be held at the Mesa Laboratory on Sunday, 13 December, from 1:00 to 3:00 p.m. Staff members' children aged 12 or under are invited to enjoy punch and cookies, cartoons, and a visit with Santa. Each child will receive a holiday gift. There will also be a social for parents in the Damon Room.

On Friday, 18 December, the Fairview High Madrigals will open the afternoon's festivities with seasonal carols at 3:00 p.m. in the lobby of the Mesa Laboratory. After the concert, NCAR director Bill Hess will present the 1981 Outstanding Performance Awards. At the conclusion of the awards ceremony (4:00 p.m.), all staff members are invited to attend the annual Holiday Party in the Mesa Laboratory cafeteria. Refreshments will be served until 7:00 p.m., and music will be provided by Pat Downey's Mobile Disco.

Great Christmas Gifts! Some women's NCAR T-shirts are still available in limited sizes: small, large, and x-large in blue or brown. Men's T-shirts will not be available for order until the women's shirts are sold. To purchase a T-shirt, call EAC representative Sharon Vieyra, ext. 662.

DEFECTIVE ELECTRICAL CORDS

A small number of detachable Pacific Electriccord power cables supplied with certain Hewlett-Packard products have been found to be miswired. Pacific Electriccord power cables can be identified by the script insignia "Electriccord" on the sides of the plugs. The phase and ground wires of the defective power cables are reversed. The unit will not operate if the power cables are miswired; however, this problem can cause power-line voltage to be transmitted to metal parts of the equipment case even when it is turned off. If you have such power cables, please contact Blair Smallwood, ext. 543, for further details.

SKI CLUB NEWS

The NCAR Ski Club will open the season with an evening of skiing at Eldora on Wednesday, 9 December. Evening skiing is from 5:30 p.m. to 9:30 p.m. At 9:30, those attending will be invited into the Eldora ski lodge for free refreshments. An evening lift ticket costs \$8.50, but if 30 or more persons attend, tickets will be reduced to \$7.50. A discount on ski lessons that evening can be obtained for a group of ten or more. Anyone planning to attend should contact Tom Bettge, ext. 306.

The daily snow report, including a skier's weather forecast for Colorado mountains is now being maintained on the IBM 4341, allowing anyone with access to obtain the report directly. The report is also being sent to RL-3, RL-6, and Jeffco through computer links. For those without access to a terminal, copies of the report are posted at the ski club bulletin board at the Mesa Laboratory cafeteria entrance, the weather map room (ML 420), the second floor of the old wing in RL-3, the bulletin board outside the Vax machine room in RL-6, and at Jeffco. The report is normally updated and sent to off-mesa sites by 10:00 a.m. For more information on the report and on how to access it on the IBM, contact Rick Wolski, ext. 457.

NEW PHOTOGRAPHIC EXHIBIT

Color photographs taken last summer by NCAR photographer Robert Bumpas are now on display in the Information Office's exhibit area near the entrance to the Mesa Laboratory cafeteria. The photographs, taken in Miles City, Montana, during the Cooperative Convective Precipitation Experiment (CCOPE), capture some of the aura of this mammoth field experiment. CCOPE was designed to study the life cycles of summer convective clouds and storms and was sponsored jointly by the Bureau of Reclamation and NCAR's Convective Storms Division.

This Week in *Staff Notes* . . .

Announcements
Library news

Job Openings

Calendar Notes

CAFETERIA NEWS

The "special special" for next Wednesday, 2 December, will be veal birds (stuffed veal patties), potatoes, a vegetable, cake, and coffee or tea, all for \$2.

The breakfast special for next week will be one egg, two pieces of bacon, toast, and coffee or tea, for \$1.10.

The winner of this week's free luncheon is:

BOB DUNCAN

ROAD WORK SCHEDULED

On 30 November, the Public Service Company will be installing power to illuminate the sign at the bottom of the mesa. Staff members are reminded to watch for barricades and warning signs during the power installation next week.

BSES MEETING

The Boulder Solar Energy Society will meet on Tuesday, 1 December, at 7:30 p.m. The meeting will be in room 1127 of the Department of Commerce Building at 325 Broadway in Boulder. The subject of the meeting is contractor-built solar retrofits, and there will be a panel discussion followed by a question-and-answer period. The panel will be composed of several local contractors, some of whom will have slides showing their work. All NCAR staff members and visitors are welcome to attend.

PHONE AND ROOM CHANGES

	<i>Ext.</i>	<i>Room</i>
Douglas Bradshaw	318	
Rolando Garcia	681	ML 168A
Cathy Kessinger	77-736	RL-3 A349
Susan Lankton	241	ML 380
Lawrence Lyjak	243	ML 369
Phyllis O'Rourke	77-739	RL-3 A347
Charles Smythe	243	ML 369
Shelley Zucker	77-747	RL-3 A350



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Production Assistants: Mary Boyer, Reed Glenn

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LIBRARY NEWS

25 NOVEMBER 1981

SAMPLE JOURNALS FOR REVIEW

The following journals are available in the library for your review and evaluation. We would appreciate your comments as to whether the library should subscribe to them:

- ADVANCES IN APPLIED MATHEMATICS. September 1981. Quarterly.
- AUSTRALIAN COMPUTER BULLETIN. July 1981. Monthly.
- AUSTRALIAN COMPUTER JOURNAL. May 1981. Quarterly.
- JOURNAL OF ALGORITHMS. September 1981. Quarterly.
- THE JOURNAL OF METEOROLOGY. July-August 1981. 10 issues.
- WEATHER AND CLIMATE. February 1981. 2 times yearly.

THE FOLLOWING MATERIAL WILL BE DISPLAYED IN THE MESA LIBRARY NOV. 30 - DEC. 3, AND IN THE RL-6 LIBRARY DEC. 4 - 10. NEW ACQUISITIONS ANNOUNCED LAST WEEK (NOV. 20) ARE PRESENTLY ON DISPLAY IN THE RL-6 LIBRARY THROUGH DEC. 3.

NEW BOOKS

REFERENCE material does not circulate.

- KF5407 F42 1981 REF. UNITED STATES GOVERNMENT MANUAL. U. S. Office of the Federal Register.
- QC864 U5 1981 c.1. & c.2. REF. FEDERAL METEOROLOGICAL HANDBOOK NO. 3, 2nd ed. Radiosonde Observations. Supercedes first edition of Federal Meteorological Handbook No. 3, effective June 1, 1981. U. S. Department of Commerce.
- TK5101 D38 1980 v.1 & v.2 REF. DATAPRO COMMUNICATIONS SOLUTIONS. Datapro Research Corporation.
- QA76 M2743 1978. FUNDAMENTALS OF THE COMPUTING SCIENCES. Maly K.
- QA76.5 K38 1971 c.2. BASIC PROGRAMMING. 2nd ed. Kemeny J. G.
- QA76.8 P2S56 1980. PDP-11 ASSEMBLER LANGUAGE PROGRAMMING AND MACHINE ORGANIZATION. Singer M.
- QC320 K69 1980. BASIC HEAT TRANSFER. Kreith F.
- QC371 K5 1980 v.6. APPLIED OPTICS AND OPTICAL ENGINEERING. Vol. 6. Kingslake R., Ed.
- QC851 S96 1979. SYMPOSIUM ON THE VALUE OF METEOROLOGY IN ECONOMIC PLANNING, 9-10 OCTOBER, 1979. New Zealand Meteorological Service.
- QC851 W6445 1980 no.519. MANUAL ON STREAM GAUGING. V.1. Fieldwork. Operational Hydrology Report no. 13. WMO no. 519. World Meteorological Organization.
- QC851 W6445 1980 no.563. PROCEEDINGS OF THE SYMPOSIUM ON THE DEVELOPMENT OF MULTI-MEDIA MONITORING OF ENVIRONMENTAL POLLUTION, RIGA, 12-15 DECEMBER 1978. WMO no. 563. Special Environmental Report no. 15. World Meteorological Organization.
- QC880.4 D44S98 1981. SYMPOSIUM ON TURBULENCE, DIFFUSION, AND AIR POLLUTION. 5th, 1981, Atlanta, GA. American Meteorological Society.
- TA357 C5877 1980. COMPUTATIONAL FLUID DYNAMICS. Kollmann W., Ed.

NEW TECHNICAL REPORTS

ATMOSPHERIC SCIENCE

- 0-3024. A METHOD FOR THE CALCULATION OF INVARIANT MANIFOLDS IN HYDRODYNAMIC STABILITY PROBLEMS. Richtmyer R. D. 1981.
- 0-3025. WINTER MONEX U. S. RESEARCH FLIGHT MISSIONS, DECEMBER 1978. Bolhofer W., Chambers M., Frey D., Kuettner J., Unnayar S. 1981.
- 2-0221. GUIDE TO R2D2-RAPID RETRIEVAL DATA DISPLAY. Pearson C. A. 1981.
- 2-0225. ATLAS DER GLOBALVERTEILUNG DES GESAMTOZONBETRAGES NACH SATELLITENMESSUNGEN (APRIL 1970-MAI 1972). Ghazi A. 1980.
- 2-0226. ANALYSE VON SATELLITENBEOBACHTUNGEN - THEORETISCHE UNTERSUCHUNGEN ZUM SAMPLING-PROBLEM. Preuss H. J. 1981.
- 2-0229. TEMPERATURE AND CIRCULATION ANOMALIES IN THE EASTERN CANADIAN ARCTIC SUMMER 1946-76. Keen R. A. 1980.

NEW MICROFICHE

ATMOSPHERIC SCIENCE

- ADA097429. SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS /SSMO/ CENTRAL AMERICAN COASTAL MARINE AREAS WEST COAST VOLUME 1. Naval Oceanography Command Detachment. 1981.
- ADA097134. AIRBORNE MEASUREMENTS OF ATMOSPHERIC VOLUME SCATTERING COEFFICIENTS IN NORTHERN EUROPE SUMMER 1978. Johnson, R.W. et al. 1980.
- ADA097090. AIRBORNE MEASUREMENT OF AEROSOL SIZE DISTRIBUTIONS OVER NORTHERN EUROPE VOLUME 1 SPRING AND FALL 1976 SUMMER 1977. Gress, T.S. 1980.
- N8119727. AGROMETEOROLOGICAL INVESTIGATIONS ON EVAPORIMETERS AND THEIR PHYSICAL PROPERTIES. Vonhoyningen-Huene, J. 1980.
- PB81175473. FURTHER EVALUATION OF ELSTAR /ENVIRONMENTAL LAGRANGIAN SIMULATOR OF TRANSPORT AND ATMOSPHERIC REACTIONS/ IN LOS ANGELES UNDER DIFFERENT METEOROLOGICAL CONDITIONS. Godden, D. et al. 1980.
- ADA097159. CHANGES OF THE SQ QUIET DAILY VARIATIONS OF THE GEOMAGNETIC FIELD AS A FUNCTION OF TIME OF YEAR AND LATITUDE. Campbell, W.H. 1981.
- ADA097553. LOW-LEVEL CONVERGENCE AND THE PREDICTION OF CONVECTIVE PRECIPITATION IN SOUTH FLORIDA ILLINOIS STATE WATER SURVEY URBANA. Watson A.I. et al. 1981.
- ADA097691. COMPARISON OF THE MARINE INDEX OF REFRACTION STRUCTURE PARAMETER C2/SUB N/ MODEL WITH OPTICAL MEASUREMENTS. Goroch, A.K. 1980.
- ADA096704. FEASIBILITY OF A LOW ORDER MODEL OF A MOIST GENERAL CIRCULATION. Lorenz, E.N. 1980.
- ADA098108. NEAR INFRARED SPECTROMETRIC AIRGLOW MEASUREMENTS DURING THE TOTAL SOLAR ECLIPSE OF 26 FEBRUARY 1979. Pendleton, W.R. et al. 1981.
- N8121395. JOINT EXTREME PROBABILITY APPROACH TO THE WIND LOADING OF STATIC STRUCTURES. Gumley, S.J. 1980.
- N8121676. MULTI-METHOD OBSERVATIONS AND MODELING OF THE THREE DIMENSIONAL CURRENTS ASSOCIATED WITH A VERY STRONG PS6 EVENT. Gustafsson, G. et al. 1980.
- PB81183535. STATISTICAL INVESTIGATIONS ON THE ATMOSPHERIC TRANSFER OF SULFUR DIOXIDE OVER MEDIUM DISTANCES. Dietzer, B. 1980.
- ADA099411. USER REQUIREMENTS OF SOLAR TERRESTRIAL PREDICTIONS FOR SPACECRAFT APPLICATIONS. Vampola, A. L. 1981.
- ADA099289. CROP YIELDS AND CLIMATE CHANGE TO THE YEAR 2000 VOLUME I REPORT ON THE SECOND PHASE OF A CLIMATE IMPACT ASSESSMENT. National Defense University. 1980.
- ADA099235. MULTIPLE SCATTERING EFFECTS ON TRANSMISSION THROUGH THE ATMOSPHERE. Ishimaru, A. 1981.
- ADA099173. ANALYSIS OF ICE JAMS AND THEIR METEOROLOGICAL INDICATORS FOR THREE WINTERS ON THE OTTAUQUECHEE RIVER VERMONT. Bates, R.E. et al. 1981.
- ADA099101. TERMINAL FORECAST REFERENCE NOTEBOOK /TFRN/ ZARAGZA AB SPAIN AND BARDENAS REALES GUNNERY RANGE SPAIN. Weather Wing, 1981.
- ADA098921. STRATOSPHERIC RESIDENCE TIMES FROM BALLOON MEASUREMENTS OF WIND SHEARS. Rosenberg, N. 1981.
- ADA098908. TEST AND EVALUATION OF AN OPERATIONALLY CAPABLE SYNOPTIC UPPER OCEAN FORECAST SYSTEM. Clancy, R. M. et al. 1981.
- ADA098894. SHOCK AND VIBRATION PERFORMANCE OF WIND INDICATING EQUIPMENT TYPE F. Clements, E.W. 1981.
- ADA098789. NEW ASPECT OF THE VERTICAL INCIDENCE DOPPLER RADAR SPECTRUM OF ICE PARTICLE FALLSPEEDS. Passarelli, R. E. et al. 1980.
- ADA098763. MEETING OF THE HIGH ALTITUDE POLLUTION PROGRAM SCIENTIFIC ADVISORY COMMITTEE EXECUTIVE SUMMARY. Federal Aviation Administration. 1980.
- ADA098635. DEVELOPMENT OF A PBL PARAMETERIZATION SCHEME FOR THE TROPICAL CYCLONE MODEL AND AN IMPROVED MAGNETOSPHERIC MODEL FOR MAGIC. Chang, S.W. et al. 1981.
- ADA098331. EFFECT OF DIFFERENT INITIAL CONDITIONS ON THE EVOLUTION OF THE E X B GRADIENT DRIFT INSTABILITY IN IONOSPHERIC PLASMA CLOUDS. Keskinen, M.J. et al. 1981.
- ADA098387. AFGL ATMOSPHERIC ABSORPTION LINE PARAMETERS COMPILATION 1980 VERSION. Rothman, L.S. 1980.
- ADA098408. ADVANCEMENTS IN CHINESE GEOMAGNETISM AND AERONOMY DURING THE LAST THIRTY YEARS. Gangkun, Z. 1981.
- ADA098438. TERMINAL FORECAST REFERENCE NOTEBOOK /TFRN/ FOR GEORGE AFB CALIFORNIA 4 SEPTEMBER 1980. Weather Wing, 1980.
- ADA098445. TERMINAL FORECAST REFERENCE NOTEBOOK /TFRN/ FOR LUKE AFB ARIZONA 2 JUNE 1980. Weather Wing, 1980.
- ADA097529. COMPARISON OF THE CLIMATES OF SELECTED LOCATIONS IN THE UNITED STATES WITH THE CLIMATE OF BEER-SHEEBA ISRAEL. Duchon C.E. 1981.
- ADA097607. NITRIC OXIDE MEASUREMENT STUDY VOLUME III COMPARISON OF OPTICAL AND PROBE METHODS. Zabelshi, M. F. et al. 1980.
- ADA098124. AN AUTOMATIC CLOUD TRACKING SYSTEM BASED ON THE CROSS-COVARIANCE METHOD. Lee, D. H. et al. 1980.
- ADA098219. THE DIURNAL AND LATITUDINAL VARIATION OF AURORAL ZONE IONOSPHERIC CONDUCTIVITY. Vickrey, J.F. 1980.
- ADA098042. TROPOSPHERIC - STRATOSPHERIC INVESTIGATIONS, THE VERTICAL STRUCTURE OF ATMOSPHERIC OSCILLATIONS FORMULATED BY CLASSICAL TIDAL THEORY. Groves, G.V. 1981.
- ADA098041. TROPOSPHERIC - STRATOSPHERIC TIDAL INVESTIGATIONS, HOUGH COMPONENTS OF WATER VAPOUR HEATING. Groves, G.V. 1980.
- ADA098031. FREQUENCY OF ADVERSE WEATHER CONDITIONS AFFECTING HIGH ENERGY LASER SYSTEMS OPERATIONS. Goroch, A.K. et al. 1980.
- ADA097927. INVESTIGATION OF THE EFFECT OF LOW LEVEL MARITIME HAZE ON DMSP VHR AND LF IMAGERY. Isaacs, R.G. 1980.
- ADA097707. SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO) CENTRAL AMERICAN COASTAL MARINE AREAS, WEST COAST VOLUME 2. Naval Oceanography Command Detachment, 1981.
- ADA097665. INITIAL VALIDATION OF AN AMBIENT AIR QUALITY MODEL FOR NAVAL AIR OPERATIONS. Douglas, T.S. 1980.

JOB OPENINGS

25 November 1981

NCAR is an equal opportunity/affirmative action employer.

Salaries for new employees and for current employees receiving reassignments will be between the range minimum and maximum shown for each job. Specific starting salaries are determined by comparing the applicant's qualifications with the job requirements and assessing expected performance levels.

REGULAR, FULL-TIME

ADMINISTRATIVE SECRETARY - #2870

HAO - Administrative Support
Non-exempt range 26: \$1,045 - 1,357/month
DUTIES: Provides secretarial support to scientific staff: prepares drafts and final copies of correspondence, reports, scientific papers from written or transcribed material primarily using word processing equipment; handles travel arrangements; maintains files and maintains appointment schedule; handles a variety of miscellaneous tasks as needed, such as running a copy machine, sorting mail, and obtaining supplies.

REQUIRES:

- Thorough knowledge of current office practices and procedures
- Skill in application of English grammar, punctuation, spelling and composition
- Accurate typing skill at about 60 WPM and skill at typing lengthy reports from handwritten copies
- High level skill in organization and in establishing work priorities
- Skill in accomplishing several tasks simultaneously, often in the midst of interruptions
- Pleasant and cooperative attitude in dealing with many individuals
- Skill at handling confidential information
- Ability/willingness to work infrequent overtime
- Willingness and interest to learn new approaches, such as word processing

ALSO DESIRED, BUT NOT REQUIRED:

- Technical typing experience, to include equations
- Experience with word processing and, in particular, the UNIX system

Margareta Domecki, X517

Employment Assistant - #2868

Personnel - Employment

Non-exempt range 26: \$1,045 - 1,357/month
DUTIES: Performs a variety of clerical, secretarial and receptionist duties for the Employment Unit. Reviews and processes a heavy volume of applications daily, including filing of applications. Performs initial screening to determine if applicants qualify for current or future openings.

REQUIRES:

- Knowledge of standard office methods and procedures, and skill at maintaining records and files
- Skill at setting priorities for work assignments while working with a heavy volume of work and with constant interruptions
- Skill at using good judgment in decision-making, especially in interpersonal situations
- Skill at effective communication, including skill at working with the public and coping with difficult interpersonal contacts without responding unpleasantly
- Typing skill at about 60 WPM

ALSO DESIRED, BUT NOT REQUIRED:

- Personnel knowledge helpful
- Word processing equipment knowledge helpful

Margareta Domecki, X517

Support Scientist II or Scientist I - #2863

ACAD - GOMOT

Exempt range 81: \$19,920 - 29,800/year
or 82: \$23,904 - 35,856/year

DUTIES: To perform line-by-line calculations of transmittances by gases in the infrared. Will use computer programs to calculate radiances and perform inversions and aid in interpreting results to define instrument and algorithm capabilities, and troubleshoot operational algorithms. Will assist in the validation of satellite results by collecting, organizing and comparing results of in-situ measurements with satellite results. Will provide scientific support on a wide range of topics through computer programming at a high level of performance.

ADDITIONAL DUTIES FOR SCIENTIST I: Will modify and improve programs to calculate radiances and perform inversions, and will study the basic physics of gradient problems and transmittance parameterizations. Will do numerical and analytical research on the inversion algorithm, to improve accuracy, stability and vertical resolution. Will work on developing the basic infrared spectral parameters for gases of interest. Will carry out research on atmospheric problems, in conjunction with other team members, using satellite data.

REQUIRES:

Support Scientist II:

- M.S. or equivalent in atmospheric science or closely related physical science
- Knowledge of techniques and skill in modeling and interpretation of observations of infrared radiation from the earth's atmosphere
- Knowledge of techniques for calculating and parameterizing atmospheric transmittance of atmospheric gases
- Demonstrated skill in writing and operating sophisticated programs on a large computer, including handling large data sets
- Skill in atmospheric research and computer graphics

ALSO DESIRED, BUT NOT REQUIRED:

- Research experience on middle atmospheric problems

Additional requirements for Scientist I level:

- Ph.D. or equivalent in atmospheric radiative transfer or closely related subject
- Demonstrated high level of knowledge and skill in modeling infrared radiative transfer in the earth's atmosphere, and in the interpretation of observations of radiation emerging from the earth's atmosphere

ALSO DESIRED, BUT NOT REQUIRED:

- Skill in doing line-by-line calculations in the infrared, or experience with inversion problems in the infrared

NOTE: This position is for an initial 1 year term, but is expected to last 4 years, depending on funding.

Margareta Domecki, X517

CALENDAR NOTES

November 30 through December 7, 1981

MONDAY, November 30

Open

TUESDAY, December 1

- AAP Seminar -- A Guide for the Choice of Finite-Difference Schemes for Proper Simulation of the Geostrophic Adjustment Process, Mary L. Batteen, AAP

3:30 p.m.
NCAR Mesa Lab, Main Seminar Room

WEDNESDAY, December 2

- SCD Seminar -- Automated Program Analysis, Leon Osterweil, Department of Computer Science, University of Colorado

3:00 p.m.
NCAR Mesa Lab, Main Seminar Room

- Meeting -- Front Range Branch, American Geophysical Union

7:30 p.m.
NCAR Mesa Lab, Main Seminar Room

THURSDAY, December 3

- HAO Seminar -- cm-wave Observations of Solar Active Regions, Gordon Hurford, California Institute of Technology

3:30 p.m.
NCAR Mesa Lab, Main Seminar Room

FRIDAY, December 4

Open

MONDAY, December 7

- Special ACAD Seminar -- Biological Interpretation of Some Geochemical Events, C. C. Delwiche, University of California Davis

1:30 p.m.
NCAR Mesa Lab, Main Seminar Room

Calendar Notes announcements may be mailed to Vonda Giesey, ML 136. Wednesday at 12:00 noon is the deadline for items to be included in the Calendar Notes.