AUFWIEDERSEHEN, PAUL

Leroy Heidt (left) and Ivar Isaksen (center) converse with Paul Crutzen and his wife, Terti, at a farewell party held for Paul last Friday. Paul (right) will leave for Germany this week to assume directorship of the Atmospheric Chemistry Division at the Max Planck Institute for Chemistry (Otto Hahn Institute) in Mainz, Germany. (Photo by Charles Semmer.)

ANNOUNCEMENTS

VOLUNTARY ACCIDENT INSURANCE

On 17 July, a memo was sent to eligible staff members regarding new coverage under the group accident insurance plan. Staff members are reminded that the white application form must be returned whether the insurance is purchased or not. In order to comply with federal regulations, a waiver must be on file if the employee chooses to decline the coverage. Therefore, it is requested that all forms be returned to the Personnel Office as soon as possible. If you have any questions, contact Sandi Hoff, ext. 586, or Cheryl Gross, ext. 556, in the Personnel Office.

ELITCH GARDENS REMINDER

Staff members who are going to Elitch Gardens Amusement Park next Wednesday, 6 August, are reminded that the NCAR group will be picnicking at the Gazebo Pavilion (not the Rainbow Pavilion as in past years). The Gazebo Pavilion is located in the northeast section of the park near the merry-go-round and the miniature golf course. Beer and soft drinks will be served from 4:00 to 9:00 p.m. Discount coupons are still available from EAC representatives Nita Razo, ML room 135, ext. 262, and Mary Ann Pykkonen, RL-3 room 267, ext. 77-690.

POSSIBLE DELAYS IN PHONE INSTALLATIONS

Given the possibility of a nationwide strike of telephone workers beginning midnight on Saturday, 9 August, NCAR's Physical Plant Services would like NCAR staff to anticipate delays in changing or installing NCAR telephones. Since there may also be a deterioration in service outside of NCAR, Physical Plant Services will be working with representatives from Mountain Bell to maintain those lines critical to NCAR's daily functioning. Staff members or groups with special telephone needs during this time should contact Lois Smythe, ext. 341.

SELECTION OF ARTISTS FOR 1981

Six artists for NCAR's art exhibit program will be selected on Tuesday, 19 August, for month-long one-person shows scheduled for October through March 1981. Artists interested in submitting work for consideration should notify the NCAR Information Office by calling ext. 262 between 8:00 a.m. and 4:00 p.m. The deadline for submissions is Monday, 18 August. Artists will be asked to bring representative samples of their work to the Mesa Laboratory on 19 August for judging.

Given the space limitations of the Mesa Lab's second-floor gallery, the art is restricted to work that can be hung vertically, such as paintings, prints, photographs, and weavings. The artists will be selected by a jury composed of both NCAR staff members and advisors from the Boulder community.

This Week in Staff Notes . . .

Farewell to Paul Crutzen
Announcements
Visitors
Library News
Job Openings
Calendar Notes
BOULDER SOLAR ENERGY SOCIETY MEETING

The Boulder Solar Energy Society will meet on Tuesday, 5 August, at 7:30 p.m. in room 1107 of the Department of Commerce building (Bureau of Standards), 325 South Broadway, Boulder. Roger Moment of Rockwell International will discuss wind energy. Moment will describe what he calls a "new breed of small wind energy systems," their background, related technology, and the nature and economics of the systems. The public is invited to attend.

AUGUST ART EXHIBIT

For August's exhibit, the second-floor gallery of the Mesa Laboratory will feature watercolors by Betty DeMaree. A native of Denver, DeMaree first studied art at the Cooper Union School of Art in New York City, and later at schools, workshops, and painting tours with nationally known artists and teachers. She has been teaching classes and conducting local and out-of-town workshops in the Denver area since 1968.

DeMaree is known nationwide for her unique and colorful approach to watercolor and has won numerous art awards. Since 1976 her paintings have been shown at the annual exhibitions of the American Watercolor Society and the Allied Artists of America, both in New York City. She was also represented in the 1977, '78, and '79 Watercolor West exhibitions at Utah State University, as well as in three of the American Watercolor Society's traveling shows.

CU PARKING STICKERS

Each semester a number of NCAR staff members attend graduate or undergraduate classes at the University of Colorado (CU). Recently UCAR arranged with the CU Traffic Office to issue temporary parking permits for staff attending these classes. The permits will be honored in the S-lots, will have an expiration date, and must be accompanied by an NCAR sticker.

If you are interested in obtaining a temporary parking permit, please contact Naomi LaPointe at ext. 235. NCAR stickers can be obtained from the Personnel Office.

PHONE CHANGE

Jean Johnson ext. 77-607

PROFS SEMINARS

The following seminars will be offered by the National Oceanic and Atmospheric Administration's Prototype Regional Observing and Forecasting System (PROFS) program office:

- "Anvil Circulation Features during the Wichita Falls Tornadic Storm, April 10, 1979," Determined by Use of Satellite Imagery," by C. E. Anderson, Department of Meteorology, University of Wisconsin. Thursday, 7 August, 10:30 a.m.

- "Statistical Objective Analysis and How It Might Be Applied to the Problem of Mesoscale Data Assimilation," by Thomas Schlatter, NCAR. Wednesday, 13 August, 2:00 p.m.

Both seminars will be held in RL-3 room 620 at 3100 Marine Street, Boulder. NCAR staff and visitors are invited to attend.

LUNCHEON WINNER

Each week a free lunch is awarded to the person whose name is drawn from a fishbowl of signed lunch receipts in the Mesa Lab cafeteria. The free lunch must be collected within a week of the Tuesday drawing. The winner's name will be posted in the cafeteria above the bowl, and will also appear in Staff Notes (on Friday) as a reminder. This week's winner is:

NELDER (MED) MEDRUD

VISITORS


--Joseph Tribbia, Atmospheric Analysis and Prediction Division

James Crutchfield, University of California, Santa Cruz. Field of interest: Structures and phase coherence in turbulence flows. 26 July-1 August. Computing carrels, dial "0" for paging service.

--Computing Facility

T. N. Krishnamurti, Florida State University. Field of interest: Tropical dynamics. 24-27 July. Computing carrel 26, dial "0" for paging service.

--Computing Facility

V. Ramanathan, Florida State University. Field of interest: Tropical dynamics. 24-27 July. Computing carrel 31, dial "0" for paging service.

--Computing Facility

Robert Shaw, University of California, Santa Cruz. Field of interest: Structures and phase coherence in turbulence flows. 26 July-1 August. Computing carrels, dial "0" for paging service.

--Computing Facility

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Writer/Editor: Sally Bates

Production Assistants: Jan Emery, Reed Glenn

Copy deadline is 5:00 p.m. on Tuesday for publication on Friday. Office: Mesa Laboratory room 259. Phone: 303-494-5151, ext. 644.
The Library is currently holding lecture-demonstrations on Computer Literature Searching and control of personal reprint files. Please contact Chuck Wenger, ext. 428 if you would like to attend.

NEW JOURNAL SUBSCRIPTIONS
IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT. Quarterly.
IEEE TRANSACTIONS ON SOFTWARE ENGINEERING. Bi-monthly.
INTERAVIA. Monthly.
SCIENCE 80. 10 issues/year.

NEW BOOKS
QA76.6 B7 1979. INTRODUCTION TO COMPUTER PROGRAMMING. Brainerd W. S.
QC928.7 L43 1977. LEGAL AND SCIENTIFIC UNCERTAINTIES OF WEATHER MODIFICATION: PROCEEDINGS OF A SYMPOSIUM CONVENED AT DUKE UNIVERSITY, MARCH 11-12, 1975, BY THE NATIONAL CONFERENCE OF LAWYERS AND SCIENTISTS. Thomas W. A.
Z699 H38 1978. INFORMATION RETRIEVAL, COMPUTATIONAL AND THEORETICAL ASPECTS. Heaps H. S.

NEW TECHNICAL REPORTS
OCEANOGRAPHY

METEOROLOGY
1-9334. ANALYTICAL INVERSION OF LIDAR RETURNS FROM AN INHOMOGENEOUS ATMOSPHERE. Klett J. D. 1980.
1-9347. EXTREME RAINFALL ANOMALIES OVER EXTENSIVE PARTS OF SOUTH AFRICA DURING PERIODS OF 1 TO 5 SUCCESSIVE "SUMMER YEARS". Van Rooy M. P. 1980.
NEW MICROFICHE

ASTRONOMY AND ASTROPHYSICS

CONF7907402. ION CURRENT DENSITIES PRODUCED BY ENERGETIC ELECTRONS IN ELECTROSTATIC PRECIPITATOR GEOMETRIES. Finney W. C., et.al. 1979.
CONF7909721. EFFECTS OF BACK CORONA DISCHARGE ON ION CURRENT DENSITY IN ELECTRON BEAM PRECIPITATORS. Thanh L. C., et.al. 1979.
DOETIC10193REV1. INPUT DATA FOR SOLAR SYSTEMS. Cinquemani V., et.al. 1978.
INISMF5008. MAGNETISCH NEUTRALE PUNKTE IN PLASMEN UND IHR EINFLUSS AUF DIE AUSBREITUNG ELEKTROMAGNETISCHER WELLEN BEI WHISTLERFREQUENZEN. Konrad A. 1977.

ENGINEERING AND TECHNOLOGY

ADA081662. MGOS BORAM MANUFACTURING METHODS AND TECHNOLOGY PROJECT. Brewer J. E. 1980.

MATHEMATICS

ADA080886. TRANSFORMATION OF A DISCRETE DISTRIBUTION TO NEAR NORMALITY. Hernandez F., et.al. 1979.
ADA080885. THE LARGE SAMPLE BEHAVIOR OF TRANSFORMATIONS TO NORMALITY. Hernandez F., et.al. 1979.
ADA081086. ASYMPTOTIC BEHAVIOR OF SOLUTIONS OF HYPERBOLIC BALANCE LAWS. Dafermos C. M. 1979.
N8018868. LOGISTIC DISCRIMINANT ANALYSIS. Kruizinga S. 1978.
ADA081664. BOUNDS ON ORDER STATISTICS DIFFERENCES. Fahmy S., et.al. 1979.
ADA081680. VARIANCE TEST FOR NORMALITY. Skory J. 1969.
ADA081809. POLYNOMIAL ARITHMETIC AND CONTOUR CONSTRUCTION. Hershey A. V. 1977.
CONF79061021. REGULARITY OF SOLUTIONS TO AN INHOMOGENEOUS DIFFERENTIAL EQUATION IN BANACH SPACE. Travis C. 1979.

OCEANOGRAPHY

GJBX17579. FITTING A THREE PARAMETER LOGNORMAL DISTRIBUTION WITH APPLICATIONS TO HYDROGEOCHEMICAL DATA FROM THE NATIONAL URANIUM RESOURCE EVALUATION PROGRAM. Kane V. E. 1979.

POLLUTION

AEDCONF77537002. NEUTRONENAKTIVEIRUNGSANALYSEN VON QUECKSILBER, ARSEN, BROM, UND ANTIMON IN ATMOSPHERISCHEN AEROSOLEN. Grosch M. 1977.
CONF7905733. DRY DEPOSITION OF ACID PARTICLES TO NATURAL SURFACES. Hicks B. B. 1979.
C00356379. SOLUBLE AND PARTICLE ASSOCIATED Fallout RADIONUCLIDES IN MEDITERRANEAN WATER AND SEDIMENTS. Livingston H. D., et.al. 1978.
**JOE OPENINGS**

July 30, 1980

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 - #2565**

ADM - NCAR Director's Office  
Non-exempt range 26: $956 - 1,238/month  
**DUTIES:** Will provide secretarial support to the Director of NCAR, and general support to the Director's office. Will type and transcribe oral dictation for correspondence, memos, notes of meetings. Will type correspondence and reports; will maintain files, logs of actions underway and schedule of appointments; will assist staff with planning of events and other special projects, as needed.  
**REQUIRES:**  
-- Thorough knowledge of spelling, grammar, punctuation and composition  
-- Thorough knowledge of modern office procedures and protocols  
-- High level skill in communicating effectively with a wide range of people  
-- Accurate typing skill at about 70 WPM  
-- Skill in taking and transcribing oral dictation for correspondence and meeting notes  
-- Skill in establishing effective working relationships  
-- Skill in working under pressure with time deadlines and complex activities underway  
-- Skill in handling confidential information  
-- Ability to use initiative and good judgement in varying situations  

Margareta Domecki, X581

**Compensation and Benefits Coordinator - #2560**

ADM - Personnel  
Exempt range 75: $21,987 - 34,086/year  
**DUTIES:** Responsible for the design, development, implementation, and administration of a compensation and benefits program which meets the needs of NCAR management and enables NCAR to attract and retain competent staff and which complies with equal opportunity, affirmative action, ERISA, and other legal requirements. Supervises employees who assist with the administration of this program.  
**REQUIRES:**  
-- Comprehensive knowledge of the principles and methods of modern personnel administration, including extensive knowledge of salary administration and up-to-date knowledge of all government regulations pertaining to Compensation and Benefits administration  
-- Ability to manage others effectively and to establish and maintain effective working relationships with employees, NCAR staff, and other units of Personnel Office  
-- Skill at evaluating and developing an effective salary administration system  
-- Skill at interpreting and applying policies within general guidelines  
-- Skill at establishing priorities and planning effectively for their accomplishment  
-- Skill at effective oral and written communication about sensitive issues and through report preparation and presentation  
-- Demonstrated skill at using good judgment in decision-making  
-- Skill at identifying problems and recommending imaginative and effective solutions  
-- Ability to quickly appreciate NCAR's unique qualities and understand its needs in the area of Compensation and Benefits, so as to be able to formulate responsive policies and procedures  

**ALSO DESIRED, BUT NOT REQUIRED:**  
-- Work experience in a research organization  

Margareta Domecki, X581

**Custodian (2) - #2553 & #2554**

ADM - Plant Maintenance  
Non-exempt range 24: $790 - 1,024/month  
**DUTIES:** General cleaning such as washing (walls, furniture, ashtrays, windows/doors, trash receptacles), polishing, dusting, removing trash, mopping, waxing and buffing floors. Will make minor repairs and report conditions which may require major repairs. Will remove snow from steps, doorways and entry sidewalks as needed.  
**REQUIRES:**  
-- Skill in comprehending basic work instructions given in the English language  
-- Skill in following and remembering procedures  
-- Skill in working well independently  

(continued)
Physical strength and endurance to lift a 5-gallon bucket of wax or water and operate a 1,000 pound floor cleaning machine.

Willingness to work alone in isolated areas.

Relevant Qualifications:
- Previous custodial experience
- Valid Colorado driver's license

NOTE: Schedule will be 6 p.m. to 2 a.m. Monday through Friday.

Margareta Domecki, X581

Division Director - #2567

ATD Exempt range 92: $38,757 to 60,079/year

DUTIES: Technical and administrative leader responsible for overall performance and long-term success of the division and NCAR's representative to the scientific community with respect to field facility planning and operation, particularly in planning and conduct of major national and international field research programs; for development of modern capabilities to meet needs of research community; and for ensuring fair and effective allocation of ATD resources. Will participate in overall planning and management of NCAR and assist NCAR and UCAR management in devising methods for funding development, acquisition and operation of field facilities. Will ensure effective administration of division and effective pursuit of NCAR's affirmative action goals.

REQUIRES:
- Ph.D. or equivalent in physical science or engineering
- Broad knowledge of atmospheric research facilities, and breadth of vision about field facilities needed in atmospheric research to pursue major goals of the science, and research experience in the use of such facilities
- Demonstrated skill in working cooperatively with scientists and organizations
- Demonstrated skills in planning, staffing and managing major field facilities

ALSO DESIRED, BUT NOT REQUIRED:
- Skill in devising and implementing a variety of funding and procurement strategies
- Demonstrated administrative skills in such matters as recruiting and management of technical and scientific staff, affirmative action, negotiation and monitoring of contracts and agreements; and budgeting of fiscal management
- Effective communication, advocacy and diplomatic skills

Margareta Domecki, X581

Employment Assistant - #2556

ADM - Personnel

Non-exempt range 26: $956 - 1,238/month

DUTIES: To perform a variety of clerical, secretarial and other employment-related duties for the Employment Unit staff. Conducts initial screening interviews with applicants, handles a heavy volume of phone calls, controls telephone and in-person traffic flow for Employment Unit, determines if applicants qualify for current/future openings, processes heavy volume of applications and requests for staff, following numerous, complex procedures.

REQUIRES:
- Typing skill at about 60 WPM
- Skill in effective communication, particularly in sensitive and difficult situations
- Skill in maintaining effective working relationships with others
- Solid secretarial experience (personnel experience preferred), providing a knowledge of standard office procedures and methods
- Skill in using good judgment and making decisions within specific guidelines
- Skill in tedious detail work and setting priorities for self and temporary clerical help
- Ability to use initiative and work on own

Substantial interest in personnel work

Position available on 24 September 1980

Marsha Hanson, X517

Electronics Engineer - #2522

ATD - National Scientific Balloon Facility

Exempt range 58: $24,384 - 37,800/year

DUTIES: Will conduct research and development efforts in electronics for the NSBF. Will perform hands-on design efforts for electronics devices and systems used in high altitude scientific ballooning. Will represent the NSBF in conferences and meetings to present information, resolve questions and plan and coordinate work. May supervise work of a small number of engineers and technicians.

REQUIRES:
- BSEE
- High level skill in design of solid state devices, RF systems and system integration
- Knowledge of telecommand and data retrieval through use of satellites
- Skill in planning, scheduling and coordinating detailed phases of engineering work
- Skill at making independent decisions on engineering problems and methods
- Some skill in FORTRAN programming
- Skill in writing technical papers and reports
- Ability/willingness to travel about twice a year on trips lasting from seven to ten days each
- Skill in effectively interacting with subordinate staff, upper management and scientific staff within NCAR and from academic and governmental institutions

ALSO DESIRED, BUT NOT REQUIRED:
- Skill in BASIC programming

This position is located in Palestine, Texas.

Margareta Domecki, X581
Engineer IV - #2504

ATD - FOF
Exempt range 59: $29,508 - 45,744/year

DUTIES: is responsible for overall management of the Remote Sensing Group including all functions associated with development, operation and maintenance of meteorological Doppler radars, lidar and other remote sensing facilities which support several major research programs each year.

REQUIRES:

--Advanced degree or equivalent in EE, physics or applied mathematics
--Knowledge of pulsed Doppler radar theory
--Knowledge of digital radar signal processing techniques
--Knowledge of analog processing techniques
--Knowledge of transmitters, receivers, antennas, state-of-the-art hardware
--Skill in overall radar system analysis and design
--Hands-on skill in designing and developing one or more of the above component areas for radar systems
--Skill level normally associated with persons having 10 or more years experience
--Skill in technical leadership, management and planning
--Skill in effectively interacting with subordinate staff, upper management, and scientific staff within NCAR and from academic and governmental institutions
--Willingness to manage group in ways consistent with NCAR policies and Affirmative Action program

ALSO DESIRED, BUT NOT REQUIRED:

--Knowledge of field of Doppler radar meteorology
--Knowledge of random signal theory in the analysis of radar systems using signal theory techniques
--Ph.D. in engineering, physical sciences or mathematics

Marsha Hanson, X517

Manager of Operations - #2489

ATD - Computing Facility
Exempt range 77: $26,565 - 41,176/year

DUTIES: This person has full responsibility for all aspects of the Facility's hardware, with the exception of initial procurement. He/she is specifically responsible for the maintenance of the hardware, minimization of down time due to hardware faults (including failure of communications gear), hardware inventory, assignment of equipment to maximize its usefulness, the efficient scheduling of the computers and management of the Operations staff.

REQUIRES:

--Demonstrated skill in the management of the operations of a major academic computing center
--Previous experience managing: (1) systems of dissimilar computers, (2) multiple RJE terminals, (3) large scale systems of interactive terminals and (4) minicomputer and terminal maintenance

--Willingness/ability to manage unit's employees in ways consistent with NCAR policies and AA program goals

ALSO DESIRED, BUT NOT REQUIRED:

--B.S. or equivalent in business, math, natural sciences or computer science
--Five years experience in the management of the operations of a major academic computing center

Marsha Hanson, X517

Manager of User Services - #2537

ATD - Computing Facility
Exempt range 82: $21,588 - 33,408/year

DUTIES: To manage a liaison and information service for users of a central computing facility and to provide support in the areas of user information, planning, communication, documentation, libraries and multi-user software.

REQUIRES:

--B.S. or equivalent in physical science
--Substantial computing experience
--Several years experience (preferably at least 3 years) managing a user services group in an academic environment
--Willingness/ability to manage unit's employees in ways consistent with NCAR policies and AA program goals

ALSO DESIRED, BUT NOT REQUIRED:

--Advanced degree in physical science

Marsha Hanson, X517

Ph. D. Scientist (Experimental) - #2507

AOD - Optical Techniques Group
Exempt range 82: $21,588 - 33,408/year (first 3-year appointment)

DUTIES: Will develop the technique of tunable laser absorption spectroscopy and apply it to the measurement of trace gases in the atmosphere. Will participate in the overall scientific and fiscal planning within the division and will design experiments which support those overall goals. Will participate with other division scientists in the planning of advanced optical instrumentation for use in atmospheric research, including space-borne experiments.

REQUIRES:

--Ph. D. in physics, atmospheric science or closely related field with specialization in optical instrumentation and/or atmospheric chemical measurements using optical methods

--Experience appropriate to this project equivalent to 2 years post-Ph. D. demonstrating ability to plan, design and execute field experiments from concept to completion

--Some experience in 2 or more of the following areas: tunable laser diodes, instrumentation on aircraft for atmospheric measurements, high resolution infrared spectroscopy, design of complex optical instruments, experience in performing and interpreting atmospheric measurements in the field

--Skill in working independently and interacting scientifically with others

--Experimental abilities in areas of optics, electronics, solid state lasers, cryogenics (continued)
and vacuum technology

ALSO DESIRED, BUT NOT REQUIRED:
-- Aircraft experimentation experience
-- Training or experience in gas phase infrared spectroscopy

Marsha Hanson, X517

Programmer II (Applications) - #2561

CSD
Exempt range 61: $18,660 - 27,996

DUTIES: Will participate in the development of the software for the processing of aircraft data obtained from the CCPOE experiment in 1981. Will develop a central system for processing of data, an interactive system for editing and synthesizing data and software to mesh this data with radar data (conventional and Doppler).

REQUIRES:
-- M.S. or equivalent in computer science, engineering or math
-- Substantial FORTRAN programming skills
-- Skill in design of interactive systems
-- Skill in runtime data processing
-- Skill in organizing and carrying through routine data processing
-- Ability/willingness to participate in field trips of up to 2 weeks during spring and summer

NOTE: This is a term appointment expected to last two years.
Margareta Domecki, X581

Programmer III - IV/User Services - #2539

ATD - Computing Facility
Exempt range 62: $22,584 - 35,016/year or 63: $27,300 - 42,288/year

DUTIES: Will provide general expertise in the area of computer communications, especially related to remote terminals and remote job entry; will assist in the implementation and planning of an I/O system whose functions include remote terminal and remote computer access to the CF's major systems; will assist in the planning and implementation of a system of terminals for all on-site users of the CF; will provide consultation and writing user-oriented documents about computer communications services; will participate in advancing the CF's hardware and software toward the state-of-the-art in communications technology; will be responsible for general software development and maintenance.

REQUIRES:
-- M.S. in computer science, math, engineering or equivalent
-- Strong background in computer communications to include work with both synchronous and asynchronous protocols
-- Skill in working well both independently and in a group
-- High level skill in anticipating and planning for computer needs

-- High level of skill in communicating effectively with computer users
-- Demonstrated skill in writing technical documentation
-- Willingness and ability to learn quickly about new advances in computer and software technology

ALSO DESIRED, BUT NOT REQUIRED:
-- Experience in scientific software planning and development
-- Experience in remote batch job entry systems
-- Familiarity with packet switching networks and protocols
-- Familiarity with host-to-host type protocols having file transmission capabilities
-- Familiarity with a wide variety of communications hardware devices

Margareta Domecki, X581

Systems Programmer II - III - #2350

ATD - Computing Facility
Exempt range 61: $18,660 - 27,996/year (II) or 62: $22,584 - 35,016/year (III)

DUTIES: Will perform software maintenance of NCAR's Modcomp II, RJE (remote job entry) system. A development effort will include improved host job status display capabilities and the final implementation of a network driver connecting the remote job entry system to the local network as well as connecting the proposed RJE replacement system to the network.

REQUIRES:
-- M.S. or equivalent in computer science, EE, or mathematics
-- 2 - 5 years (level II) or 6 - 9 years (level III) of systems programming with demonstrated skill in maintenance of operating system software and writing/modifying peripheral equipment drivers
-- Skill in assembly language programming and FORTRAN, with minicomputer, RJE protocols, terminals and modems, preferably the Modcomp II

Marsha Hanson, X517

Systems Programmer II - III - #2359

ATD - Computing Facility
Exempt range 61: $18,660 - 27,996/year or 62: $22,584 - 35,016/year

DUTIES: Will perform software maintenance on CRAY 1 operating system. Will be involved in identifying sections of the operating system code that do not function according to specifications, providing problem by-pass suggestions to users awaiting fixes, generating new versions of the system following vendor releases, providing and updating modifications relating to NCAR's accounting needs and consulting with users of system behavior.

REQUIRES:
-- M.S. or equivalent in computer science or related fields
-- 2 - 5 years (level II) or 6 - 9 years (level III) of system programming where duties included maintenance of operating system

(continued)
software on medium or large scale system environment and participation in file backup procedures

--Substantial skill in assembly language programming and FORTRAN

Marsha Hanson, X517

REGULAR, PART-TIME

Administrative Secretary - #2555 (3/4 time)

ADM - Publications Office

Non-exempt range 26: $717 - 929/month (=3/4 salary)

DUTIES: Will provide secretarial support for staff of eight. Will do a variety of tasks to include the following: technical/scientific typing and coding for typesetting on word processing equipment, proofreading and direction of a reprint stock clerk.

REQUIRES:

--High degree of accuracy in typing at about 60 WPM and following heavily edited copy
--Basic skills and knowledge of variety of secretarial tasks
--High degree of accuracy in spelling and comprehensive knowledge of English grammar, punctuation and composition
--Organizational skill needed to manage a wide variety of activities according to office priorities and schedule in the midst of many interruptions
--Communication skill to work with 8 staff members who have different schedules and who are frequently away from the office and to handle a wide variety of requests and inquiries from individuals inside and outside NCAR
--Interest/willingness to do what is necessary to share this position
--Skill in proofreading
--Interest/willingness to learn to operate word processing equipment
--Ability/willingness to work required schedule: 40 hours one week, then Wednesday 1:00 p.m. to Friday 5:00 p.m. the next week.

ALSO DESIRED, BUT NOT REQUIRED:

--Experience in operating text editing/word processing equipment

A spelling test and two typing tests (straight and heavily edited) will be given to final candidates.

Marsha Hanson, X517

Clerk II - #2566 (1/2 time)

ADM - Director's Office

Non-exempt range 24: $395 - 512/month (=1/2 salary)

DUTIES: Will do typing for the office to include documents/resolutions for international scientific unions, presentations, and manuscripts which may on occasion be of a technical nature. Will handle large international mailings and keep the mailing lists updated; will respond to request for publications; will set up and maintain office filing system.

REQUIRES:

--Solid knowledge of general office procedures
--Good knowledge of English grammar, spelling and punctuation

Systems/Automation Librarian - #2562 (1/2 time)

ADM - Communications Services

Exempt range 41: $8,260 - 12,805/year (=1/2 salary)

DUTIES: Will design new systems and maintain the existing manual and computer-aided information processing systems in the library to include: writing computer programs, documenting and maintaining the programs, writing operating manuals, designing forms, instructing personnel in use of systems, ensuring that existing systems are cost-effective.

REQUIRES:

--B.S. or equivalent in Computer Science or Librarianship
--Substantial knowledge of and skill in FORTRAN programming to include troubleshooting and correcting program failures
--Knowledge of computer and terminal operations
--Skill in communicating effectively with a wide range of people, both orally and in writing
--Ability to organize and set priorities for self and for automation group
--Basic math skills

ALSO DESIRED, BUT NOT REQUIRED:

--Interest in computer applications in libraries

Margareta Domeck, X581

SPECIAL PROJECT, FULL-TIME

Special Project Scientist II - #2568

HAO - Solar Maximum Mission Project

Exempt range 83: $26,064 - 40,404/year

DUTIES: Will assume principal responsibility for the processing of data from the satellite coronagraph/polarimeter experiment. Other major responsibilities include: maintaining/improving software, supervising the work of 2 support staff, working intermittently at Goddard Space Flight Center, Greenbelt, Maryland, to relieve other experiment team members and participating with team members, HAO staff and guest investigators in the analysis and interpretation of the results and through publication in scientific and technical journals.

REQUIRES:

--Ph. D. or equivalent in solar physics or astrophysics
--High level skill handling megabit data arrays on large computer
--Demonstrated ability to initiate independent research as evidenced by past work and research publications
--Skill in effective communication for interface with other scientific personnel
--Ability/willingness to travel to GSFC, Greenbelt, Maryland (about 15%)

(continued)
-- Ability/willingness to supervise support staff in ways consistent with UCAR policies and with affirmative action plan goals

ALSO DESIRED, BUT NOT REQUIRED:
-- Knowledge of image processing techniques, optical photometry and familiarity in using minicomputers

This position is expected to last through about February 1982.
Marsha Hanson, X517

Support Scientist I - #2559

AQD
Exempt range 80: $14,592 - 21,900/year
DUTIES: Will carry out sample collection, radiochemical separation, and radioactivity measurements of radon and thoron and selected radioactive daughter products in laboratory chambers and natural environments, with general supervision and guidance on methods and procedures for experimental radon and radon progeny studies.

REQUIRES:
-- B.S. or equivalent in chemistry, physics or biology
-- Knowledge of analytical chemistry
-- Knowledge of general chemical laboratory procedures
-- Basic knowledge of mathematics
-- Willingness/ability to participate in local field trips

ALSO DESIRED, BUT NOT REQUIRED:
-- Experience with radiochemical procedures and nuclear measurement techniques

NOTE: This job will last one year, with probability of yearly renewal.
Margareta Domecki, X581

TEMPORARY, FULL-TIME

Machinist/Instrument Maker III - #2558

ATD - Research Systems Facility
Non-exempt range 31: $1,539 - 1,993/month
DUTIES: To machine scientific instruments parts out of a variety of materials to include stainless steel, aluminum, brass, steel and plastics, from formal, informal or verbal instructions. Will contribute solutions and ideas to problems encountered in the development of experimental equipment.

REQUIRES:
-- High level skill in machine operation (lathes, mills, drill presses, surface and cylinder grinders)
-- Skill in interpreting formal drawings, informal sketches and verbal instructions
-- Skill in prototype machining to include R/D work
-- Skills in some of the following: sheet metal and plastics fabrication, molding and forming, welding, brazing, precision grinding, lapping, pattern development and casting
-- Physical strength to occasionally lift 100 pounds to 3 feet

ALSO DESIRED, BUT NOT REQUIRED:
-- Tool grinding experience
-- Skill in developing ideas and contributing on a design level

This position will be full-time for about three months.
Marsha Hanson, X517

Writer/Editor II - #2546

CSD
Exempt range 41: $1,377 - 2,134/month
DUTIES: To copy-edit and coordinate production of a report in hardbound book form entitled "Halstons in the Central High Plains of North America." Under the general guidance of the Director of CSD, will deal directly with authors, reviewers, technical typists, and graphics, printing and publications personnel to assure smooth progress of production to its completion.

REQUIRES:
-- Excellent language skills in spelling, grammar, style and vocabulary
-- Skill in paying extremely careful attention to detail
-- Skill in overall coordination and production of publishing project
-- Working knowledge of standards of scholarly publishing
-- Skill in communicating and dealing effectively with a broad range of people
-- Knowledge of standard editorial reference
-- Skill in using initiative and independent judgment within general guidelines
-- Ability/willingness to learn new terminology and information

ALSO DESIRED, BUT NOT REQUIRED:
-- Some familiarity with basic concepts in the physical sciences

Note: This position is for four months with an additional extension of another four months.
A written test will be given to final applicants.
Margareta Domecki, X581

CASUAL (WILL CALL)

Custodian (4) - #2549 - 2552

ADM - Plant Maintenance
Non-exempt range 24: $4.55 - 5.90/hour
DUTIES: General cleaning such as washing (walls, furniture, ashtray, windows/doors, trash receptacles), polishing, dusting, removing trash, mopping, waxing and buffing floors. Will make minor repairs and report conditions which may require major repairs. Will remove snow from steps, doorways and entry sidewalks as needed.

REQUIRES:
-- Skill in comprehending basic work instructions given in the English language
-- Skill in following and remembering procedures
-- Skill in working well independently
-- Physical strength and endurance to lift a 5-gallon bucket of wax or water and operate a 1,000 pound floor cleaning machine.
-- Willingness/ability to work on a call-as-needed basis Monday through Friday from 6 p.m. to 2 a.m.

ALSO DESIRED, BUT NOT REQUIRED:
-- Previous custodial experience
-- Skill in operating floor waxing and scrubbing equipment
-- Valid Colorado driver's license
Margareta Domecki, X581
MONDAY, August 4
Open

TUESDAY, August 5
• NCAR/NOAA Joint Seminar -- Structure of Atmospheric Precipitation Systems - A Global Survey, Robert A. Houze, Jr., University of Washington
  10:00 a.m.
  RL 3, Room 620
• AAP Seminar -- Nonlinear Normal Mode Initialization for a Nested Fine-Mesh Model Based on the Shallow Water Equations, Bennert Machenhauer, University of Copenhagen
  3:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

WEDNESDAY, August 6
Open

THURSDAY, August 7
Open

FRIDAY, August 8
• Climate Club -- Climate and Sea Level Changes, Petr Chylek, MIT & SUNY, Albany
  3:00 p.m.
  NCAR Mesa Lab, Main Seminar Room

MONDAY, August 11
• Sun-Weather Seminar -- A Relationship Between the Potential Temperature of the Tropical Tropopause and the Sunspot Cycle and a Simple Model to Explain the Observations, George C. Reid, NOAA
  12:00 noon
  NCAR Mesa Lab, Damon 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.