

STAFF NOTES

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

Vol. 17, No. 28

16 July 1982

ANNOUNCEMENTS

SURVEY RESULTS

The Compensation and Benefits unit of the Personnel Office conducted a two-part benefits survey last summer and fall. The first part was a survey of UCAR member universities, some national laboratories, employers in the same labor market with whom we compete for professional and technical employees, and selected local employers. This part of the survey was designed to determine the types and level of benefits offered by these other organizations.

The comprehensive survey questionnaire of benefits was sent to 75 organizations, including all the UCAR member universities. Twenty-four organizations returned completed surveys in time to be included in the analysis. An additional two organizations returned completed surveys too late to be included in the analysis and three other organizations provided some information, though not completing the survey questionnaire. The return rate was 38.7%. There was a total of 103,356 employees covered by the 24 responding organizations with completed surveys.

The second part of the 1981 benefits survey was a survey of UCAR employees. Each employee was asked to complete the survey and return it to the Personnel Department. This portion of the survey was designed to determine staff members' knowledge and understanding of present benefits and preferences for additions, deletions, and/or changes in the benefits presently offered by UCAR.

Of the 800 surveys distributed to the staff, 429 were completed and returned. An additional five individuals returned the survey without completing it for a total of 434 responses. This is a return rate of over 54%.

You are welcome to review the report summarizing the results of the benefits survey a copy of which is in the Personnel Department. If you would like to have a copy of the report, please contact Ginny Johnson on ext. 558 or Sandi Hoff on ext. 586.

DENTAL FORMS HERE!

Claim forms for the new dental coverage recently offered by NCAR have arrived and are available in the Personnel Department. The procedure for handling dental claims differs considerably from that used to submit medical claims. The dental form includes a preaddressed envelope with both employee and dentist statements included. The employee completes fully the Employee's Statement, either attaches the dentist's insurance statement or has the dentist complete the Attending Dentist's Statement, then mails the form directly to the insurance company in the envelope provided. Payment will then be made directly to the employee or the dentist as designated. Instructions are provided on the dental form, but if you have any further questions, please call Sandi Hoff on ext. 586.

POWER SHUT DOWN

Physical Facilities Services would like to advise the staff that the power to the computing addition of the Mesa Laboratory will be shut off on Sunday, 18 July, from 6:00 a.m. to 6:00 p.m. The shut down will allow maintenance workers to upgrade the electrical switching gear and provide circuit breakers for the Scientific Computing Division's (SCD) uninterruptible power supply system. This shutdown will affect SCD's computing area, the CRAY equipment room, and the north computing carrels.

STAGE II OF MINIZINGER

NCAR is again hosting a portion of the Mini Red Zinger bicycle race for children. The second stage of the NCAR mesa uphill race will be on Thursday, 22 July, from 5:30 to 8:30 p.m. Vehicles will be permitted on the mesa road between the races, and race marshalls will oversee the traffic and the young bicyclists.

NAME CHANGE

Marsha Sime: formerly Marsha Hanson.

This Week in *Staff Notes* . . .

Announcements
Visitors

Library News
Job Openings

Calendar Notes

MEXICAN FIESTA

UCAR will host a Summer Fiesta on Wednesday, 28 July, from 4:00 to 6:00 p.m., on the Tree Plaza of the Mesa Laboratory. Mexican food will be served and Mexican music will be provided by the Oliver Lara Trio. All NCAR staff and visitors are invited to attend. In case of inclement weather, the reception will be held in the cafeteria.

COMPUTING PRESENTATION

The Scientific Computing Division has arranged for George Grenander of Denelcor to present the latest development in that company's computer program. The presentation, entitled "The Logical Step Forward in Highspeed Scientific Computing," will be given in the Main Seminar Room of the Mesa Laboratory on Thursday, 29 July, from 10:00 a.m. until noon. All interested NCAR employees and visitors are welcome.

"RUNNING DOCTOR" TO SPEAK AT NCAR

The Employee Activities Committee has invited Boulder physician Phillip Perlman to present a "Runners Workshop" on Wednesday, 28 July. Perlman is a podiatrist who specializes in the treatment of running injuries and disorders; he has authored a self-help book for runners entitled *Don't Take Two Aspirin*.

The workshop will be held in the Main Seminar Room at 12:00 noon. All interested NCAR employees and visitors are invited to attend.

PHONE AND ROOM CHANGES

	Ext.	ML Room
Cecil Leith	287	416
Robert Niffenegger	574	7
Sharon Vieyra	241	380

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Writer/Editor: Sally Bates
Editorial Assistant: Reed Glenn
Production Assistant: Mary Boyer

Copy deadline is 5:00 p.m. on Tuesday for publication on Friday. Office: Mesa Laboratory room 259. Phone: 303-494-5151, ext. 644.

EAC REQUESTS RACE SUGGESTIONS

The Employee Activities Committee will be sponsoring the fall FAC on 10 September this year. The FAC traditionally includes bicycle and foot races up the NCAR hill plus other events, all followed by a staff party. The race committee is now looking for ideas for team and individual events to complement the hill races. They would appreciate suggestions for events that are safe, that can be held on concrete (the NCAR parking lot), and that could be open to everyone. Possibilities might include a wheelbarrow race or a water-balloon toss.

Suggestions should be sent in writing to either Susan Inman in the Mesa Laboratory or Boba Stankov in RL-6 before 23 July.

CAFETERIA NEWS

The "special special" for next Wednesday, 21 July, will be homestyle meat loaf, potatoes, a vegetable, apple Betty, and coffee or tea, all for \$2.

The breakfast special for next week will be eggs Benedict with cantaloupe for \$1.10.

The winner of this week's free luncheon is:

"KID BRADY"

Each week a free lunch is awarded to the person whose name is drawn from a container of signed lunch receipts in the Mesa Laboratory cafeteria. The winner's name will be posted in the cafeteria above the container, and it will also appear in Staff Notes. The winner must collect his free lunch within a week of the publication of his name in Staff Notes.

SOFTBALL SCORES

With spectacular hitting by all, and triples by Patti Zinn, Donna Wheat, Juanita Crane, and Judy Fukuhara, NCARcerated defeated the Pipefitters 18-16. Their next game will be on Monday, 19 July, at 5:45 p.m. at East Mapleton Field against the RTC Jazz.

The NO_x SO_x will play their next games on Friday, 16 July, at 9:45 p.m. (against the 86ers), and on Sunday, 18 July, at 1:45 p.m. (against Rockwell). Both games will be at Stazio Fields.

DENVER BEARS GAME

The Employee Activities Committee (EAC) has tickets to a special Denver Bears game on Saturday, 14 August. The game, which will be played in Mile High Stadium, is billed as a "community effort" to propel the Bears into the major leagues. Tickets cost \$1 each and may be reserved through EAC representative Boba Stankov (ext. 77-623) before 23 July.

NEW DISCOUNTS AVAILABLE

The Employee Activities Committee (EAC) has joined the Denver Metro Industrial Recreation Council (DMIRC). This is a consortium of businesses formed to provide its members with access to a wide variety of activities and products at discount prices. The DMIRC is active throughout the greater Denver area, including Boulder.

One example of activities available at a discount to DMIRC members is the cost of tickets to shows performed at the Heritage Square Opera House. Lists of the shows, the regular ticket prices, and the DMIRC discounted prices have been posted on the bulletin boards in the Mesa Laboratory and in RL-6. Employees wishing to avail themselves of the discount may simply call the Opera House, specify the nights and shows desired, and request the DMIRC special discount.

VISITORS

Bruce Albrecht, Pennsylvania State University. Field of interest: Atmospheric convection. 6 July 1982 - 30 June 1983. ML room 311A, ext. 485.
--V. Ramanathan, Atmospheric Analysis and Prediction Division

Albert Barcilon, Florida State University. Field of interest: Computing. 1 July-15 August. ML room 11B, ext. 538.
--Scientific Computing Division

Roger Bauer, Compass Systems, Inc., San Diego, California. Field of interest: Ocean climatology. 30 June-14 July. Computing carrels, dial "0" for paging service.
--Scientific Computing Division

Patrick Chaliier, University of Paris, France. Field of interest: Photochemical smog chamber and kinetics formaldehyde reactions. 7-8 July.
--Jack Calvert, Atmospheric Chemistry and Aeronomy Division

Jorgen Christensen-Dalsgaard, Aarhus University, Denmark. Field of interest: Theory of solar and stellar oscillations. 3 September 1982 - 2 September 1983. ML room 567, ext. 431.
--Timothy Brown, High Altitude Observatory

Milford Davis, Universities Space Research Association, Columbia, Maryland. Field of interest: Contracts discussion. 8 July. ML room 263, ext. 254.
--Nelder Medrud, Atmospheric Chemistry and Analysis Division

Susan Dixon, University of Washington. Field of interest: Computing. 15 July-25 August. Computing carrels, dial "0" for paging service.
--Scientific Computing Division

Peter Fabian, Max Planck Institute for Chemistry, Mainz, West Germany. Field of interest: Stratospheric composition meeting. Damon room, ext. 461.
--Leroy Heidt, Atmospheric Chemistry and Aeronomy Division

Edward Gardner, California Institute of Technology. Field of interest: Photochemical reactions. 1 July 1982 - 30 June 1983. ML room 174, ext. 643.
--Jack Calvert, Atmospheric Chemistry and Aeronomy Division

Kent Garrett, CBS Evening News, New York. Field of interest: JAWS. 28-30 June.
--Joan Frisch, Information Office

Owen Hertzman, University of Washington. Field of interest: Dual Doppler data processing. 1 June-1 December. RL-3 room A220, ext. 77-661.
--Richard Carbone, Atmospheric Technology Division

Robert Lesdaux, University of Bordeaux, France. Field of interest: Photochemical smog chambers and kinetics formaldehyde reactions. 7-8 July.
--Jack Calvert, Atmospheric Chemistry and Aeronomy Division

Edward Lorenz, Massachusetts Institute of Technology. Field of interest: Dynamic meteorology. 1-31 August. ML room 208, ext. 396.
--John Firor, Advanced Study Program

Robert Malone, Los Alamos National Laboratory. Field of interest: Climate modeling. 7 July-6 August. ML room 306, ext. 549.
--Maurice Blackmon, Advanced Study Program

Mac McClellan, *Flying* magazine. Field of interest: JAWS. 28 June. ML room 135, ext. 261.
--Joan Frisch, Information Office

Ulrich Schmidt, Nuclear Research Establishment, Julich, West Germany. Field of interest: Atmospheric chemistry. 15-16 July. Damon Room, ext. 461.
--Leroy Heidt, Atmospheric Chemistry and Aeronomy Division

Colin Shen, University of Washington. Field of interest: Oceanography. 8 July 1982 - 8 July 1983. ML room 269, ext. 685.
--Leroy Heidt, Atmospheric Chemistry and Aeronomy Division

Charles Siegell, *Rocky Mountain News*. Field of interest: JAWS. 7 July.
--Joan Frisch, Information Office

John Vedder, National Aeronautics and Space Administration's Ames Research Center. Field of interest: Stratospheric composition meeting. 15-16 July. Damon Room, ext. 461.
--Leroy Heidt, Atmospheric Chemistry and Aeronomy Division

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John Walsh, University of Illinois. Field of interest: Climate variability. 6-9 July. Computing carrels, dial "0" for paging service.
--Scientific Computing Division

Stephen Warren, University of Washington. Field of interest: Climate. 6 July-25 September. Computing carrels, dial "0" for paging service.
--Scientific Computing Division

Robert Watson, National Aeronautics and Space Administration, Washington, D.C. Field of interest: Stratospheric composition meeting. 15-16 July. Damon Room, ext. 461.
--Leroy Heidt, Atmospheric Chemistry and Aeronomy Division

David Webb, Institute of Oceanographic Sciences, Wormley, England. Field of interest: Oceanic modeling. 12 July-7 August. ML room 420, ext. 456.

--William Holland, Atmospheric Analysis and Prediction Division

Ronald Welch, South Dakota School of Mines and Technology. Field of interest: Radiative transfer in clouds. 1-8 July. Computing carrels, dial "0" for paging service.

--Scientific Computing Division

Norman Zabusky, University of Pittsburgh. Field of interest: Oceanography. 20-28 July. ML room 428, ext. 459.

--James McWilliams, Atmospheric Analysis and Prediction Division

LIBRARY NEWS

16 July 1982

NEW JOURNAL SUBSCRIPTIONS

COMPUTER GRAPHICS WORLD. Monthly.
GEO ABSTRACTS. C - Economic Geography. Bimonthly.
GEO ABSTRACTS. G - Remote Sensing, Photogrammetry and Cartography. Bimonthly.
IMPACT OF SCIENCE ON SOCIETY. Quarterly.
TECHNOLOGICAL FORECASTING AND SOCIAL CHANGE. An International Journal. Monthly.

* * NEW MAP * *

WORLD MAP OF MARITIME PRODUCTION AND TRANSPORTATION OF PETROLEUM. Scale: 1:38,000,000. Published by The Office of The Geographer, Department of State. 1981.

This map will be available at the reference desk for 2 weeks, thereafter, in the Map Room.

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LIBRARY SERVICES

My acquisitions recommendation is: _____

for the MESA, RL-6, RL-3, MAR, or RAF Library. (circle one) Name: _____

* * *

THE FOLLOWING MATERIAL WILL BE DISPLAYED IN THE MESA LIBRARY JULY 16-23, AND IN THE RL-6 LIBRARY JULY 23-30. NEW ACQUISITIONS ANNOUNCED LAST WEEK (JULY 9) ARE PRESENTLY ON DISPLAY IN THE RL-6 LIBRARY THROUGH JULY 23. YOU MAY RESERVE THEM DURING DISPLAY FOR SUBSEQUENT CHECK-OUT.

NCAR staff members located off the Mesa site may borrow new books, reports, and microfiche, by checking the item of interest below and returning to Gayl Gray.

NEW BOOKS

New books for the MESA Library, the RL-6 Library, and the RAF Library are in the following list. REFERENCE material does not circulate.

	<u>CALL NUMBER</u>
STUDY OF HORIZONTAL SEA SURFACE TEMPERATURE VARIABILITY. Butler, W.A.	GCI73 B85 1981.
GOODE'S WORLD ATLAS, 16th ed. Goode, J.P.	G1021 G6 1982; REF.
NORTH AMERICA IN MAPS : Topographical map studies of Canada and the U.S.A. Knowles, R.	G1105 K6 1976; MAP ROOM.
THE HUMAN IMPACT : MAN'S ROLE IN ENVIRONMENTAL CHANGE. Goudie, A.	GF75 G68 1982.
STATISTICAL SOFTWARE : A comparative review. Francis, I.	QA76.4 F7 1981.
SOFTWARE ENGINEERING ECONOMICS. Boehm, B.W.	QA76.6 B618 1981.
PROBLEM SOLVING AND STRUCTURED PROGRAMMING IN FORTRAN, 2nd ed. Friedman, F.L.	QA76.73 F25F74 1981.
TUTORIAL--DATA BASE MANAGEMENT IN THE 1980'S. Larson, J.A.	QA76.9 D3T867 1981.
MATRIX COMPUTATIONS AND MATHEMATICAL SOFTWARE. Rice, J.R.	QA188 R52 1981.
SPLINE FUNCTIONS : BASIC THEORY. Schumaker, L.L.	QA224 S33 1981; RL-6.
ANALYSIS OF VARIANCE. Handbook of statistics ; v. 1. Krishnaiah, P.R.	QA279 A524 1980; RAF.
PRACTICAL EXPERIMENT DESIGNS FOR ENGINEERS AND SCIENTISTS. Diamond, W.J.	QA279 D5 1981; RL-6.
FOURIER ANALYSIS. Baggett, L.	QA403.5 B33 1979.
CATASTROPHE THEORY FOR SCIENTISTS AND ENGINEERS. Gilmore, R.	QA614.58 G54 1981.
BASIC HEAT TRANSFER. Kreith, F.	QC320 K69 1980, c.2; RL-6.
MANUAL ON THE GLOBAL DATA-PROCESSING SYSTEM. V.1 Global aspects; V.2 Regional aspects. World Meteorological Organization.	QC874.3 W62 1977, c.2; RL-6.

NEW BOOKS CONTINUED ON NEXT PAGE

NEW BOOKS -Continued

- THE BOUNDARY LAYER. World Meteorological Organization. QC880.4 B65W63 1979, c.2; RL-6.
CLIMATE AND HISTORY : Studies in interdisciplinary history. Rotberg, R.I., ed. QC884 C57 1981.
THE MANAGEMENT OF WEATHER RESOURCES. United States Weather Modification Advisory Board. QC928.7 U55 1978, v.1.
METEOROLOGICAL ASPECTS OF THE UTILIZATION OF WIND AS AN ENERGY SOURCE. QC931 M44 1981, c.2; RL-6.
World Meteorological Organization.
NUMERICAL STUDIES OF HURRICANE-OCEAN INTERACTIONS. Anthes, R.A. QC944 A5 1981.
THE HURRICANE AND ITS IMPACT. Simpson, R.H. QC944 S55 1981, c.2; RL-6.
PROCEEDINGS OF THE WORLD CLIMATE CONFERENCE : A conference of experts on climate and mankind, Geneva, 12-23 February 1979. World Meteorological Organization. QC980 W67 1979; MESA & RL-6.
THE WORLD FOOD SITUATION : Resource and environmental issues in the developing countries and the United States. Crosson, P.R. S439 C76 1977.
WORLD WATER FOR AGRICULTURE : CLIMATE, PRECIPITATION, PROBABILITIES AND ADEQUACIES FOR RAINFED AGRICULTURE. Hargreaves, G.H. S494.5 W3H37 1977.
FOOD AND AGRICULTURE. Scientific American. S523 F65 1976.
CROP MICROMETEOROLOGY : A simulation study. Goudriaan, J. S600.43 G68 1977, c.2; RL-6.
THE RECLAMATION OF DISTURBED ARID LANDS. Wright, R.A. S621.5 S8R44 1977.
CONFERENCE ON THE GENETIC BASIS OF EPIDEMICS IN AGRICULTURE (1976 : New York). Day, P.R. SB750 C59 1976.
NATIONAL INDICATIVE PLAN FOR SCIENCE AND TECHNOLOGY. Consejo Nacional de Ciencia y Tecnologia (Mexico). T24 M6M4913 1976.
LAMINAR-TURBULENT TRANSITION : Symposium, Stuttgart, Germany, September 16-22, 1979. Eppler, R., ed. TA357 L35 1980; RL-6.
INTERNATIONAL TECHNICAL MEETING ON AIR POLLUTION MODELING AND ITS APPLICATION. Wispelaere, C., ed. TD881 I59 1980.
CARBON DIOXIDE, CLIMATE, AND SOCIETY : Proceedings of a IIASA workshop. International institute for applied systems Analysis. TD885.5 C3C37 1978, c.2; RL-6.
SOFT ENERGY PATHS : TOWARD A DURABLE PEACE. Lovins, A.B. TJ163.2 L678 1977.
PRINCIPLES OF SOLAR ENGINEERING. Kreith, F. TJ810 K73 1978; RL-6.
SOLAR ENERGY : A comparative analysis to the year 2020. Mitre Corporation. TJ810 M5 1978.
WIND MACHINES. Eldridge, F.R. TJ825 E4 1975.
DISTRIBUTED-PROCESSOR COMMUNICATION ARCHITECTURE. Thurber, K.J. TK5105.5 T49 1979.
TUTORIAL, LOCAL COMPUTER NETWORKS, 2nd ed. Thurber, K.J., ed. TK5105.5 T89 1981.
ELECTRONICS AND INSTRUMENTATION FOR SCIENTISTS. Malmstadt, H.V. TK7878.4 M29 1981, c.2; RL-6.
HANDBOOK OF SCREEN FORMAT DESIGN. Galitz, W.O. TK7882 I6G34 1981.
NEWSPAPER LIBRARIES IN THE U.S. AND CANADA ; An SLA directory. Special Libraries Association. Z675 N4S63 1980; REF.
DIGITAL COMPUTER TREATMENT OF PARTIAL DIFFERENTIAL EQUATIONS. Vemuri, V. QA374 V45 1981.
COMPUTER METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS. Vichnevetsky, R. QA374 V53 1981, v.1.
LIVING WITH CLIMATIC CHANGE : Proceedings Toronto conference workshop Nov. 17-22, 1975. Beltzner, K., ed. QC981.8 C5L5 1975, c.2.
LECTURES ON AIR POLLUTION AND ENVIRONMENTAL IMPACT ANALYSES 29 SEP. - 3 OCT. 1975, Boston Massachusetts. American Meteorological Society. TD881 A4 1975.

NEW MICROFICHE

We are not able to announce all of the Microfiche the Library receives, because of the large volume. These are the most relevant titles:

ATMOSPHERIC SCIENCE

- PB82171232. MANAGING CLIMATIC RESOURCES AND RISKS (Final Rept). National Research Council, Washington D.C. 1981.
PB8217076. MECHANISM OF SHALLOW WINTER-TYPE STRATIFORM CLOUD SYSTEMS. Weickmann, H. 1981.
PB82168956. THE WEFAX USER'S GUIDE. Clark, R., et al. 1981.
PB82158767. WINTER MONEX U.S. RESEARCH FLIGHT MISSIONS, DECEMBER 1978 (Technical Note). Bolhofer, W., et al. 1981.
PB82167206. ACIDIFICATION OF RAIN IN THE PRESENCE OF SO₂, H₂O₂, O₃, AND HNO₃. Overton, J.H., et al. 1982.
N8216660. NASA/MSFC FY-81 ATMOSPHERIC PROCESSES RESEARCH REVIEW. Turner, R.E. 1981.
N8216659. DESIGN OF PROTOTYPE CHARGED PARTICLE FOG DISPERSAL UNIT (Final Rept). Collins, F.G., et al. 1981.
N8216658. EFFECTS OF DIABATIC HEATING ON THE AGEOSTROPHIC CIRCULATION OF AN UPPER TROPOSPHERIC JET STREAK (Interim Report). Keyser, D.A., et al. 1982.
N8216657. STUDY TO PERFORM PRELIMINARY EXPERIMENTS TO EVALUATE PARTICLE GENERATION AND CHARACTERIZATION TECHNIQUES FOR ZERO-GRAVITY CLOUD PHYSICS EXPERIMENTS (Final Report). Katz, U. 1982.
ADA107434. TERMINAL FORECAST REFERENCE NOTEBOOK, FRESNO AIR TERMINAL. WEATHER WING (5th) Langley AFB VA. 1981.
N8215666. THE AEROS RETARDING POTENTIAL ANALYSER. Spinner, K. 1981.
N8215658. DATA PROCESSING AND DATA EVALUATION OF THE ISEE PARTICLE SPECTROMETER (Final Report). Daly, P.W. 1981.
N8215657. THE MASS SPECTROMETER EXPERIMENT IN THE PROGRAM AEROS (Final Report). Krankowsky, D., et al. 1981.
N8215499. ANALYSIS OF SATELLITE OBSERVATIONS: THEORETICAL STUDIES ON THE SAMPLING PROBLEM. Preuss, H.J. 1981.

JOB OPENINGS

15 July 1982

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

SECRETARY - #2954

ASP - Environmental Societal & Impacts Group
Non-Exempt Range: 25, \$950 - 1,234/mo.
DUTIES: Will provide general clerical and secretarial support for staff and visitors in the Advanced Study Program, including the Environmental and Societal Impacts Group (ESIG), graduate research assistants and postdoctoral fellows. Will be responsible for assisting the Administrator with the secretarial functions of the Division office.

REQUIRES:

- Knowledge of standard office procedures and methods.
- Demonstrated skills in oral and written communication, including correct application of English grammar, punctuation, spelling and usage.
- Accurate typing skill of approximately 60 wpm.
- Skill in establishing and maintaining good working relationships.
- Ability to exercise initiative and judgment with regard to work schedules.
- Ability or willingness to learn to operate word processing and transcribing equipment.

NOTE: Applicant desiring 3/4 time position will also be considered.

Esther Blazon, X581

COMPUTER SERVICE ENGINEER II - #2942

SCD - Operations

Exempt Range 57: \$22,380 - 33,564/yr.

DUTIES: Performs maintenance and repair work on computer systems, sub-systems and devices. Will train subordinate personnel in operation of computer system diagnostics and fault isolation techniques. Will be expected to make independent technical decisions on details of work covered by standard repair procedures and precedents and will only receive supervision and guidance on novel or controversial hardware failures.

REQUIRES:

- Expert knowledge of computer system capabilities (DEC PDP 11 preferred).
- Considerable knowledge of practices, principles, and techniques of data processing.
- Broad knowledge of computer peripheral devices, disk and tape recording.
- High level skill in terminal repair, both CRT and hard copy devices.

- Good knowledge of Data Communication hardware and protocols.
 - Working knowledge of computer language to help program unique diagnostic aids.
 - Ability to conduct research investigations with regard to computer system hardware performance.
 - High level skills in use of electronic measurement devices.
 - Demonstrated skill using initiative solving unique problems.
 - Skill in communicating effectively both orally and in writing.
 - Ability/willingness to work hours and shifts as required by workload.
- Margareta Domecki, X517

MANAGER, COMPUTER MAINTENANCE - #2941

SCD - Operations

Exempt Range 77: \$29,220 - 43,836/yr.

DUTIES: Will be responsible for the maintenance of specific computer equipment within SCD to include the DICOMED D48 COM system, DEC PDP 11 systems, hardcopy and video terminals, communication hardware, R.J.E. and interface to SCD users. Will be responsible for in-house inventory problem identification and third-party notification. Will interface with vendors' service groups to ensure resolution of computer hardware problems and with SCD personnel to identify and correct hardware problems. Will manage and supervise employees in ways consistent with UCAR policies and procedures and with affirmative action compliance program goals.

REQUIRES:

- Diversified working knowledge of computer systems architecture and interaction and wide background covering the operation and repair of computer and peripheral devices.
 - High level skill in interacting and communicating effectively orally and in writing to a diverse group of people.
 - High level skill in managing effectively a computer maintenance group and representing it successfully to others.
 - Skill in making independent decisions on computer systems problems and methods.
- Margareta Domecki, X517

STATIONARY ENGINEER (LEAD) -#2951

ADM - Physical Plant Services

Non-Exempt Range: 31, \$1,683 - 2,185/mo.

DUTIES: Will be responsible for the proper and efficient operation and maintenance of all heating, ventilating, air conditioning, refrigeration and other related equipment. Acts as lead worker and trains others in performing these activities.

REQUIRES:

- Demonstrated high level skill in operation, maintenance and minor repair of pneumatics, electrical/electronic controls, refrigeration/air conditioning systems, boilers, pumps and compressors.
 - Extensive working knowledge of water treatment principles.
 - Demonstrated skill in reading and working from construction/installation drawings and specifications for troubleshooting purposes.
 - Demonstrated skill in training and supervising others effectively in operation and maintenance of mechanical systems.
 - Skill in basic math.
 - Physical strength/endorance to do heavy lifting and climbing.
 - Ability/willingness to work mixed shifts and occasionally on call midnight to 8 a.m.; 8 a.m. - 4:30 p.m. will be most frequent schedule, however.
 - Current Stationary Engineer's license (equivalent to City and County of Denver certificate).
- Margareta Domecki, X517

SYSTEMS PROGRAMMER II/III - #2952

ATD/FOF - Analysis Support Group

Exempt Range: 61, \$20,880 - 31,320

62, \$25,056 - 37,584

DUTIES: (LEVEL II) Will support the overall operation of the Research Data Support System (RDSS) which consists of a VAX 11/780, a PDP 11/60, and associated DEC and non-DEC peripherals including color raster graphics. Will write the systems and applications software necessary to support the data processing and analysis associated with scientific research.

DUTIES: (LEVEL III) Will be responsible to a group of scientific users for the overall operation of the Research Data Support System. Will actively collaborate with the group leader and scientific users in development projects. Will have responsibility for managing employees in ways consistent with UCAR Policies and Procedures and with Affirmative Action Compliance Program goals.

REQUIRES: (LEVEL II)

- B.S. in computing science, mathematics, engineering, physical science or equivalent experience.
- Demonstrated skills in systems programming including skill in FORTRAN and assembly language programming.
- Communication skills, verbal and written, necessary to discuss complex software development strategies and techniques with non-programmers.

--Thorough knowledge of state-of-the-art software development methodologies and their applications, REQUIRES: (LEVEL III)

--M.S. or equivalent experience (about 3-5 years) in VAX/VMS system programming.

--Knowledge of scientific graphics and/or image processing techniques, hardware and software, ALSO DESIRED, BUT NOT REQUIRED: (For both levels)

--Familiarity with hardware, i.e. interfacing techniques.

--Knowledge of the PDP 11/60 RSX-11M operating system.

--Familiarity with data base management software.

NOTE: Position may be filled at 1/2 time for applicant with strong skills.

Margareta Domecki, X517

TERM, PART-TIMEADMINISTRATIVE AIDE - #2956

AAP - Acid Deposition Modeling Project

Non-Exempt Range: 28, \$632 - 821/mo. (.50 FTE)

DUTIES: Will handle day-to-day administration and administrative secretarial tasks for Acid Deposition Modeling Project.

REQUIRES:

- Demonstrated initiative and independence to research solutions to administrative problems and implement them.
 - Demonstrated skill in effective oral and written communication with a variety of people.
 - Demonstrated organizational skills.
 - Demonstrated skill in accurate use of English grammar, spelling and composition.
 - Demonstrated skill in setting appropriate work priorities and meeting deadlines.
 - Demonstrated skill in accurate typing at about 55 wpm.
 - Demonstrated skill in basic math functions.
 - Familiarity with bookkeeping procedures and principles.
 - Current knowledge of office practices and procedures.
 - Ability/willingness to work for about 4 hours/day for about 8 months (schedule may be modified slightly for additional flexibility).
- ALSO DESIRED, BUT NOT REQUIRED:
- Skill in technical typing (material containing scientific terminology and/or equations).
 - Skill in using a word processor, preferably a MICOM.
- NOTE: Expected schedule will be 4 hours per day, with flexible hours.
- Esther Blazon, X581

CALENDAR NOTES

July 19 through July 26, 1982

MONDAY, July 19

Open

TUESDAY, July 20

Open

WEDNESDAY, July 21

Open

THURSDAY, July 22

- ACAD Seminar -- Aerosol Properties and Effects of Indoor Radon Progeny, Edward Martell, ACAD

10:30 a.m.
NCAR Mesa Lab, Main Seminar Room

FRIDAY, July 23

Open

MONDAY, July 26

Open

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