Every year NCAR's Employee Activities Committee (EAC) encourages, promotes, and sponsors social, recreational, cultural, and charitable events for the staff. Many staff members participate in these activities, yet few realize how much work committee members do behind the scenes to arrange them. Staff Notes would therefore like to take the opportunity to describe the committee and the breadth of its activities.

The EAC evolved from a committee that was organized informally in 1966 for the sole purpose of planning an end-of-the-year holiday party for the staff; the proceeds from NCAR's vending machines paid for the party. This committee gradually began to organize other activities and it eventually became known as the Employee Activities Committee.

To ensure representation of all staff members at NCAR's various Boulder-area sites, the composition of the committee reflects NCAR's structure. The executive director of NCAR makes appointments to the EAC on the basis of recommendations from division directors. Appointments last for two years, and usually no more than half are made in one year, to ensure overlapping terms and continuity of membership. The committee elects its own chairperson(s).

Over the years, as the activities of the EAC increased, NCAR management awarded it a yearly budget of its own. In 1975 the committee members wrote the EAC Articles, which list its activities in order of priority, as: the staff holiday party and the children's holiday party (both held in December), a summer function, and any additional activities that are consistent with the purpose of the committee. "The first three activities are prescribed," comments current EAC member Betty Davie (Administration Division), "but after that the EAC representatives can plan almost anything they want."

One example of an on-going, nonprescribed activity sponsored by the EAC is the blood donor program. Twice a year the committee coordinates visits to the Mesa Laboratory by the Belle Bonfils Memorial Blood Center. "Arranging the details of the blood donor program involves a lot of logistical work and time," Betty explains. "Once we announce the date, we have to gather names, schedule donors every seven minutes, and enlist volunteers for nurses' aides and escorts." As a result of the EAC's work, all staff members and their immediate families can obtain blood bank credits in almost any hospital in the United States.

Below is a list of activities planned by the EAC for this spring and summer:

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>20 April</td>
<td>Roller skating party</td>
</tr>
<tr>
<td>29 May</td>
<td>FAC (staff party)</td>
</tr>
<tr>
<td>23 June</td>
<td>Blood bank program</td>
</tr>
<tr>
<td>5 August</td>
<td>Elitch Gardens (discounts to an amusement park)</td>
</tr>
<tr>
<td>28 August</td>
<td>NCAR summer party</td>
</tr>
</tbody>
</table>

In addition to these planned activities, the EAC currently has obtained a variety of discounts for NCAR staff members. These are: discount film tickets to Mann Theaters in Boulder, discount coupon books, and discounts to Disneyland. The committee is also involved in organizing athletic activities. This involves paying entry fees to sponsor a limited number of teams in Boulder's city leagues and paying the NCAR Ski Club's yearly dues to the Colorado Ski Club Association. Supervision of these ongoing activities has been allocated to specific committee members.

A list of staff members now serving on the EAC is on the following page. If you have any questions about specific discounts, or if you wish to organize a team, contact the representative responsible for that activity. For questions, suggestions, and general information, contact Betty Davie. • SB

This Week in Staff Notes ...
EAC COMMITTEE MEMBERS

<table>
<thead>
<tr>
<th>Member</th>
<th>Division</th>
<th>Ext.</th>
<th>Assigned Responsibility</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod Aschenbrenner</td>
<td>Admin</td>
<td>263</td>
<td>co-chairperson</td>
</tr>
<tr>
<td>Robin Vaughan</td>
<td>CSD</td>
<td>77-604</td>
<td>co-chairperson and Mann Theater discount tickets</td>
</tr>
<tr>
<td>Luanna Bauman</td>
<td>HAO</td>
<td>642</td>
<td>secretary and Disney discounts</td>
</tr>
<tr>
<td>Betty Davie</td>
<td>Admin</td>
<td>223</td>
<td>general information</td>
</tr>
<tr>
<td>Sue Jensen</td>
<td>SCD</td>
<td>505 or &quot;0&quot;</td>
<td></td>
</tr>
<tr>
<td>Nancy Leach</td>
<td>ATD</td>
<td>77-709</td>
<td>Mann Theater discount tickets*</td>
</tr>
<tr>
<td>Ann Robinson</td>
<td>ATD</td>
<td>78-51</td>
<td></td>
</tr>
<tr>
<td>Barbara Summers</td>
<td>Admin</td>
<td>421</td>
<td>treasurer and discount books</td>
</tr>
<tr>
<td>Peggy Taylor</td>
<td>ATD</td>
<td>78-51</td>
<td></td>
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<tr>
<td>Sharon Vieyra</td>
<td>ASP</td>
<td>662</td>
<td></td>
</tr>
<tr>
<td>Patti Zinn</td>
<td>Admin</td>
<td>271</td>
<td>athletic activities</td>
</tr>
<tr>
<td>Carole Zolnick</td>
<td>Director's Office</td>
<td>207</td>
<td></td>
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<tr>
<td>VACANT</td>
<td>AAP</td>
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<tr>
<td>VACANT</td>
<td>ACAD</td>
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</tr>
</tbody>
</table>

*Mann Theater discount tickets are also available from NCAR receptionist Dorothy Kokesh.

ANNOUNCEMENTS

COMPUTER DISPLAY PRESENTATION

The Computer Services Division of the National Oceanic and Atmospheric Administration's (NOAA) Environmental Research Laboratory will be co-hosting an Image Processing Presentation in collaboration with Control Data Corporation. The presentation will feature a demonstration of a RAMTEK 9400 interactive color display attached to the CDC CYBER 170/750 computer system.

Since attendance at each presentation will be limited to a maximum of 10 people, sessions will be conducted on a twice-daily schedule (9:00 a.m. and 1:00 p.m.) beginning Monday, 27 April. It will be necessary to make reservations for a specific session, which will be accepted on a first-come, first-served basis. All interested NCAR employees and visitors are invited to attend. Reservations may be made by calling Karen Kline on 497-5840 or Glen Mentgen on 497-5855 at NOAA.
SKI CLUB NEWS

The Ski Club's last social of the year will take place next Tuesday, 14 April, from 7:30 to 9:30 p.m. in the Damon Room of the Mesa Laboratory. The social will include a movie, refreshments, door prizes, and the announcement of new officers and plans for next year.

CORRECTION

Please correct Richard Carbone's room and extension to: RL-3 room A220, ext. 77-648.

CAFETERIA NEWS

The "special special" for next Wednesday, 15 April, will be stuffed pork chops with dressing, a vegetable, peach pie, and coffee or tea, all for $2.

The breakfast special for next week will be a pancake sandwich with coffee or tea for $1.10.

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:

BILL RAGIN

VISITORS


--Cecil Leith, Atmospheric Analysis and Prediction Division

John Snyder, Center for International Agricultural Research, Mexico City, Mexico. Field of interest: Climate and weather, data processing for agricultural research. 6-30 April. Library carrels, ext. 654.

--Michael Glantz, Advanced Study Program


--Joan Frisch, Information Office
NEW BOOKS
REFERENCE volumes do not circulate.

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:

AMERICAN LABORATORY. June 1980. 10 times a year.

NEW MICROFICHE TECHNICAL REPORTS
ATMOSPHERIC SCIENCE
ADA088457. EVIDENCE OF AN IONOSPHERIC REFLECTING LAYER BELOW THE CLASSICAL D REGION. Rasmussen J.E., et. al. 1979.
ADA088282. TECHNIQUES FOR EXAMINING DROP SIZE SPECTRA IN WATER SPRAYS AND CLOUDS. Skidmore F. W., et. al. 1979.
ADA088050. NUMERICAL SIMULATION OF THE INFLUENCE OF SEA-SURFACE TEMPERATURE ON TRANSLATING TROPICAL CYCLONES. Chang S.W., et. al. 1980.
NEW MICROFICHE continued.

COMPUTER SCIENCE

N8030081. SPETSIALIZIROVANNYI PROTSESSOR V STANDARTE KMAK, VYDELAYATLYUSHCHIJ SOBYTIYA RESHENIEM LINEJNYKH
JINR1312453. MODULAR PROGRAMMING FOR MULTICOMPUTER SYSTEMS. Gruenewald W. 1979.
N8030067. SOFTWARE DEVELOPMENT ENVIRONMENT. APPENDIX F. Riddle W. E. 1980.
N8031071. SEGMENTATION DYNAMIC STORAGE AND VARIABLE LOADING ON CDC EQUIPMENT. Tiffany S. H. 1980.

ENGINEERING AND TECHNOLOGY

PB8110255. PORTABLE ENVIRONMENTAL DATA LOGGER AND SENSORS. PART II. Sims R. A. 1980.
LMP67. EVALUATION OF A RECENTLY DESIGNED MULTI-TIERED EXPOSURE CHAMBER. Lovelace Foundation for Medical
    Education and Research, Albuquerque, N.M. 1979.
N8031071. SEGMENTATION DYNAMIC STORAGE AND VARIABLE LOADING ON CDC EQUIPMENT. Tiffany S. H. 1980.

MATHEMATICS

DOETIC11182. CONJUGATE GRADIENTS AND THE LANCZOS ALGORITHM: SOLVING LARGE SYMMETRIC SYSTEMS OF LINEAR
    EQUATION. Scott D. S. 1978.
ORNLMT7265. NOTE ON THE ROBUSTNESS OF DIXON'S RATIO TEST IN SMALL SAMPLES. Chernick M. R. 1980.
N8027127. METHODS FOR SOLUTION OF FREDHOLM INTEGRAL EQUATIONS OF THE FIRST KIND. M.S. Thesis. Baart M. L.
    1979.

MISCELLANEOUS

PB8110067. PROCEEDINGS OF THE CONFERENCE ON SCIENTIFIC RESEARCH IN THE NATIONAL PARKS (2nd) HELD AT SAN
    FRANCISCO, CALIFORNIA ON NOVEMBER 26-30, 1979. VOLUME 5: PHYSICAL SCIENCES. (SCIENTIFIC
DOEEV100402. ROLE OF ORGANIC SOILS IN THE WORLD CARBON CYCLE: PROBLEM DEFINITION AND RESEARCH NEEDS.
DOEEV100401. ROLE OF TEMPERATE ZONE FORESTS IN THE WORLD CARBON CYCLE: PROBLEM DEFINITION AND RESEARCH

OCEANOGAPHY

PB81106585. EVALUATION OF SOLID SORBENTS FOR WATER SAMPLING. (FINAL REPT. SEP 78-SEP 80). Harris J. C.,
    et. al. 1980.
PB81102584. SOME OBSERVATIONS OF PHYSICAL OCEANOGRAPHIC CONDITIONS ON THE NORTHEAST GULF OF ALASKA
PB81102556. TWO FORTRAN APPLICATIONS OF WIND-DRIVEN EKMAN WATER TRANSPORT THEORY: UPWELLING INDEX AND
    STORM TIDE. Short K. S. 1980.

POLLUTON

DOENASA25937910. ANALYTICAL STUDY OF NITROGEN OXIDES AND CARBON MONOXIDE EMISSIONS IN HYDCOGEN COMBUSTION
DOEEY2287466. PROBABILITY MODELING AND ESTIMATION FOR HOURLY VARIATION OF AIR POLLUTION CONCENTRATIONS.
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

Applications Programmer II - III - #2721

AAP - Oceanography Section
Exempt range 61: $18,660 - 27,996/year (level II)
or 62: $22,584 - 35,016/year (level III)
DUTIES: Will participate in design, construction, implementation, and maintenance of large computer codes associated with Ocean General Circulation Model development as well as developing and applying special purpose codes for a variety of mathematical, statistical, graphical, and data analytical calculations.
REQUIRES (for level II):
--M.S. in computer science, mathematics or physical sciences, or engineering or equivalent
--Knowledge of mathematical techniques applied to scientific problems
--Skill in FORTRAN programming
Level III person would be expected to have greater depth of knowledge of requirements listed above, a strong scientific background working with complex problems and would be expected to work independently in development of codes.
Margareta Domecki, X501

Computer Service Technician II - #2760

SCD - Maintenance Group
Non-exempt range 28: $1,264 - 1,642/month (1981)
DUTIES: Immediate responsibility will be connection of users to the IO satellite computer, via hardware communications in the mesa building, as well as modem hookups. Other responsibilities will include providing hardware support of data communications, debugging modem and data communications problems, maintaining terminals and handling inventory of the spares system. Will also assist senior personnel in the maintenance of the DCOMED D48 COM system.
REQUIRES:
--Basic understanding of EIA-CITT RS232 standard
--Limited understanding of data communications hardware
--Skill in soldering techniques and fabrication of data communication cables
--Skill in repairing various data terminals
--Skill in use of scopes, digital multimeters and data analyzers
--Basic knowledge of computer architecture
--Elementary understanding of disk and tape recording
Marsha Hanson, X517

Division Director - #2697

AAP
Exempt range 92: $38,757 - 60,079/year
DUTIES: Is responsible for the overall scientific productivity, creativity and excellence of the division; for the formulation and execution of both long-term and short-range plans, within the overall NCAR guidelines; for the quality of the scientific and support staffs; for personnel management, including meeting the goals of the affirmative action program; and for planning and management of budgets and other resources. Will participate in management deliberations, advising the Director of NCAR on such matters as scientific goals and standards, budgets, policies and programs and in the pursuit of budget and planning strategies.
REQUIRES:
--Ph.D. or equivalent in physical science, engineering or related field
--Demonstrated high level scientific productivity, breadth of interest and leadership
--Demonstrated sound scientific judgment in broad range of topics within atmospheric dynamics and associated disciplines
--Demonstrated high level skills in techniques of planning, organization and management of activities, staff and budgets and ability to make and put into effect clear and incisive decisions
--Demonstrated effective scientific advocacy in order to persuasively promote goals and strategies
--Willingness/ability to manage the division in ways consistent with NCAR policies and affirmative action program goals
Prospective candidates may apply by submitting a letter of candidacy and a curriculum vitae to G. W. Curtis, Wilmot Hess or Ed Wolff. Applications should be received by 15 April 1981. NCAR would like to have the selected individual assume this position by 1 September 1981.
Marsha Hanson, X517

Electronics Engineer III-IV - #2742

ATD - FOF
or 59: $32,220 - 48,324/year (1981)
DUTIES: Will participate in research and development, in meteorological remote sensing systems with emphasis...
on pulsed Doppler radar. Will participate in signal theory and systems design activity as part of team of engineers, scientists and technicians for the purpose of advancing techniques in atmospheric remote sensing.

REQUIRES (level III):
- Ph.D. in electrical engineering or physics or equivalent relevant experience
- Experience with active remote sensing hardware and techniques -- both analog and digital aspects
- In-depth understanding of information theory as applied to extraction of spectral moments from volume-distributed targets such as hydrometeors
- Experience with real-time signal processing
- Ability to lead design, development and testing of complex remote sensing systems including RF aspects as well as display and control functions
- Willingness to participate in other development efforts as a team member; sometimes such projects involve universities, government laboratories and other facilities at NCAR
- Ability and desire to examine data from prototype systems; collaborate with FOF scientists; publish results
- Willingness to provide limited field support of measurement systems and to assume field project management responsibilities
- Ability to develop new areas of activity in the general discipline of atmospheric remote sensing

ALSO DESIRED, BUT NOT REQUIRED:
- Demonstrated skills in 5th, 7th and 9th requirements above
- Interest in meteorological research in the general area of mesoscale studies
- Expertise in man/machine interaction problems
- Previous experience in the field of meteorological Doppler radar

REQUIRES (level IV):
- A high level of proficiency in all specified areas of responsibility
- At least five years experience directly applicable to meteorological Doppler radar signal theory
- Strong publications record and peer acceptance of research and development in atmospheric remote sensing

Margareta Domecki, X581

Head, Administrative Computing and Systems Office - #2758

ADM
Exempt range 78: $29,247 - 45,335/year
DUTIES: Responsible for planning, organization and directing the business data processing activities including systems analysis, design, programming, computer operations and data entry.

REQUIRES:
- B.S. or equivalent in computer science, accounting, business administration
- Demonstrated high level skill in on-line data processing, including experience in systems analysis and design using structured methodology, applications programming, remote job entry and data base management
- Good knowledge of computing hardware and software and their capabilities in an administrative use context
- Good understanding of financial and other business applications of data processing
- High level organizational and communication skills
- Good understanding of high level business programming language (i.e. BASIC or equivalent)
- Willingness/ability to manage this group in ways consistent with NCAR policies and affirmative action program goals

Marsha Hanson, X517

Manager, Business and Financial Services - #2754

ADM
Exempt range 79: $35,342 - 54,779/year
DUTIES: Provides high level advice and management concerning contracts, purchasing, insurance, patents, data rights, banking, accounting, payroll, travel, government property, systems analysis and design, data processing and office automation. Staff is about 31 with an annual budget of about $900K.

REQUIRES:
- Demonstrated high level management skills at the mid-senior level (preferably in an organization similar in size and nature to NCAR)
- Demonstrated high level skills in planning, budgeting, management, communication and decision making and implementation
- Skill in dealing with government in contractor relationship
- General knowledge of procurement, finance and business computing and high level skill in the management of at least one of the above

Head, Information Office - #2724

Director's Office
Exempt range 77: $26,565 - 41,176/year
DUTIES: Will be responsible for carrying out or supervising all functions of the Information Office including receiving the public (individuals and groups), responding to requests for information from the media, the public, and other organizations and taking the initiative with the media, through general-distribution news releases, generation of material tailored to the interests of individuals in the media, and personal contacts. Will be responsible for setting priorities and managing budget within management guidelines, and recommending additional activities that will advance NCAR's mission.

REQUIRES:
- Demonstrated skill in writing about science in a clear prose style that will be interesting to the lay reader without unwarranted distortion of the science involved
- Demonstrated skill in judging and editing the work of others
Willingness/ability to manage this group in ways consistent with NCAR policies and affirmative action program goals

ALSO DESIRED, BUT NOT REQUIRED:
--Management experience in a non-profit research institution
--B.S. or equivalent in business administration, accounting, public administration; an MBA is highly desirable

Marsha Hanson, X517

Manager, Physical Facilities Services - #2755

ADM
Exempt range 79: $35,342 - 54,779/year
DUTIES: Manages all physical facility and office services functions. Responsible for the quality, productivity and cost effectiveness in these areas which include facilities planning, design and construction, physical plant operation and maintenance, telecommunications, energy conservation, security, safety, food service, mail, shipping and receiving, transportation and conference support. Staff is about 66 persons with an annual budget of about $2.8 million.

REQUIRES:
--High level skills in budget development and implementation
--High level skills in mid-senior level management/leadership in directing support services (preferably on an organization-wide basis and in one similar in size and nature to NCAR)
--Excellent communication and organizational skills with exposure/good understanding of (in this order): 1) physical facility planning, design and construction, 2) physical plant operation and maintenance, 3) physical space utilization and allocation, 4) general office services, and 5) security and safety
--B.S. or equivalent in business administration, public administration, mechanical engineering, architecture and substantial management experience in the complementary area (i.e. business degree and technical experience or vice versa)
--Willingness/ability to manage this group in ways consistent with NCAR policies and affirmative action program goals

Marsha Hanson, X517

Scientist I or Ph.D. Scientist II - #2763

HAO - Solar Variability Section
DUTIES: As part of a group, develop theories of fluid dynamical and magneto-hydrodynamical turbulence and apply them to problems of solar and stellar convection zones and atmospheres. Examples: turbulent transport of momentum and energy, amplification and dissipation of magnetic fields, turbulent convection. Part of time will be spent developing theoretical parametrization of turbulent processes which can be incorporated into global models of solar convection and the solar dynamo.

REQUIRES (for level I):
--Ph.D. in physical science and strong training in fluid dynamics
--Demonstrated post-doctoral research experience in turbulence problems, preferably in a geophysical or astrophysical context

Marsha Hanson, X517

Scientist I or Ph.D. Scientist II or III - #2767

AAP
Exempt range 82: $21,588 - 33,408/year
or 83: $26,064 - 40,404/year or 84: $31,440 - 48,744/year
DUTIES: Will carry out basic research studies in small-scale or mesoscale meteorology, including but not limited to boundary layers, buoyancy or shear-driven waves, turbulence, convective storm physics and dynamics, and interactions of theories with large scale phenomena.

Ultimate goal is to improve the observability, understandability and predictability of important mesoscale meteorological phenomena.

REQUIRES (level I):
--Ph.D. dissertation or equivalent research contribution
--Demonstrated knowledge of interest in small-scale or mesoscale meteorology

ALSO DESIRED, BUT NOT REQUIRED:
--1-2 years postdoctoral experience with demonstrated research achievements in areas related to job description

REQUIRES (level II):
--Same as for level I
--Substantial additional research experience and research literature contributions to relevant areas of atmospheric sciences usually requiring three or more years experience beyond postdoctoral level

REQUIRES (level III):
--Same as for level I
--Strong publication record in the scientific literature, widely acknowledged by professional peers. Usually requires 5-10 years of research experience beyond postdoctoral level at a major university or research institution

NOTE: Applicants desiring less than full-time schedule are encouraged to apply.

Marsha Hanson, X517

Scientist I or Ph.D. Scientist II - #2746
(1st or 2nd 3-year appointment)

ACAD
Exempt range 82: $21,588 - 33,408/year
or 83: $26,064 - 40,404/year
DUTIES: Independently, and in cooperation with the Division Director, will undertake numerical modeling

--Research level knowledge of magneto-hydrodynamics and MHD turbulence
--Willingness to apply turbulence theory to solar and stellar problems

REQUIRES (level II):
--Substantially more experience beyond the Ph.D. degree in turbulence problems, preferably in a geophysical or astrophysical context, which has resulted in significant independent research contributions appearing in publications

ALSO DESIRED, BUT NOT REQUIRED (levels I and II):
--Demonstrated research experience in MHD turbulence problems, as evidenced by research publications

Application materials: Vita, publication list and a discussion of relevant scientific background and how the applicant would approach the solar turbulence problem.

NOTE: This is a 3 year term appointment. The closing date is 1 August 1981. The position may be occupied on 1 October 1981 or later.
experiments and theoretical studies of atmospheric photochemical processes. Will be expected to utilize a stratospheric constituent data base to be acquired by NASA’s HALOE satellite project in validating and guiding the theoretical modeling effort. May perform independent additional research into paleotempospheres, aeronomy, global chemical cycles, atmospheric radiation and dynamics and air pollution modeling, depending upon the successful candidate’s background.

**REQUIRES (1st year appointment):**
- High level skills in numerical modeling and theoretical studies of atmospheric photochemistry as evidenced by educational accomplishments and published research
- High level skills in the programming of an advanced computer in FORTRAN
- Ph.D. in chemistry, physics or atmospheric science or equivalent
- Relevant postdoctoral experience in applicable scientific research
- High level skills in the numerical solution of differential equations applicable to atmospheric photochemical, radiative and dynamic processes, as demonstrated by experience, reports and/or publications
- Approximately 3 years experience including rigorous research and publication of research findings

**ALSO DESIRED, BUT NOT REQUIRED:**
- Experience on the CDC 7600 and CRAY

Margareta Domecki, X581

**Secretary - #2756**

ADM


DUTIES: Will provide secretarial and clerical support to a staff of four.

REQUIRES:
- Good knowledge of current office procedures
- Good knowledge of English grammar, spelling, punctuation and composition
- Accurate typing at about 55 WPM (typing test will be given to final applicants)
- Skill in establishing and maintaining effective working relationships with others
- Interest/willingness to learn to operate word processing equipment
- Interest/willingness to learn to use transcribing equipment

**ALSO DESIRED, BUT NOT REQUIRED:**
- Skill in use of word processing equipment
- Skill in shorthand
- Skill in handling confidential information
- Skill in transcribing from a dictaphone

Margareta Domecki, X581

Staff Scientist II - III - #2743

ATD - FOF

Exempt range 83: $26,064 - 40,404/year (level II) or $31,440 - 48,744/year (level III)

DUTIES: Will engage in research and service activities associated with immersion and remote sensors deployed by the FOF.

**REQUIRES (level II):**
- Ph.D. or equivalent experience in relevant areas
- Ability to organize and conduct field experiments utilizing meteorological remote and immersion sensors. This includes direction and supervision of all field technical specialists
- A demonstrated record of peer acceptance for research in cloud physics, cumulus dynamics, mesoscale research, boundary layer meteorology or radar meteorology
- Understanding of meteorological Doppler radar literature and willingness to pursue this area of research
- Willingness to promote and conduct joint research with the user community including universities, government laboratories and other institutions
- Ability to interact with FOF users in both scientific and service capacities
- Willingness to participate in the design and development of new hardware and software
- Willingness to cooperate with other ATD facilities such as Research Aviation and Research Systems

**ALSO DESIRED, BUT NOT REQUIRED:**
- Experience with multiple Doppler experimentation and analysis
- Understanding of pulsed Doppler radar signal theory
- Understanding of remote and immersion sensing system hardware
- Ability to direct development of general user software for analysis of meteorological data

REQUIRES (level III):
- Experience level normally associated with 5-10 years relevant research
- Publications record and peer acceptance normally associated with the associate professorship level
- Greater breadth and/or depth than implied by the minimum requirements

Margareta Domecki, X581

**Systems Programmer III-IV - #2635**

SCD - Systems

Exempt range 62: $22,584 - 35,016/year (level III)
- $27,300 - 42,388/year (level IV)

DUTIES: Will perform measurements of network performance and network data flow. Will design and code the necessary software to (1) perform simulations and analysis of data flow, (2) measure the actual network data flow and performance, and (3) enhance the measurements methodology during development and later production states.

**REQUIRES:**
- M.S. or equivalent in computer science, math, or engineering
- 5-9 years (level III) or more than 9 years (level IV) in systems programming on medium to large system with the last 4-5 years concentrated in some of the following areas: computer communications, systems performance measurements, queuing theory applications and system analysis

**ALSO DESIRED, BUT NOT REQUIRED:**
- Demonstrated skills in designing, writing and integrating system level software packages, and connecting various network hardware components

Marsha Hanson, X517

**Systems Programmer III-IV - #2695**

SCD - Systems

Exempt range 63: $26,814 - 35,016/year (level III) or $27,300 - 42,388/year (level IV)

DUTIES: Will perform software maintenance and...
development of the CRAY 1 operating system.

REQUIRES:
-- M.S. or equivalent in computer science or related field
-- 5-9 years (level III) or more than 9 years (level IV) in system programming where duties included maintenance of operating system software on medium or large scale system and participation in file backup procedures
-- Skill in assembly language programming and FORTRAN

Marsha Hanson, X517

Wage and Salary Administrator - #2765

ADM - Personnel Office
Exempt range 72: $18,132 - 27,204/year (1981)
DUTIES: Administers and maintains the regular aspects of NCAR's compensation program including job classification, performance appraisal and salary surveys.
REQUIRES:
-- Broad-based knowledge of personnel policies and practices, or demonstrated skill in administration of a compensation program
-- Knowledge of job classification and evaluation systems
-- Math skill
-- Excellent communication skills, both written and oral

ALSO DESIRED, BUT NOT REQUIRED:
-- Computer system knowledge
-- Statistics knowledge

Valerie Friesen/Ben Cordova, X508

TEMPORARY, FULL-TIME

Computer Service Technician I - #2761

SCD
Non-exempt range 26: $1,045 - 1,357/month (1981)
DUTIES: Will participate in construction and wiring of a distribution panel, fabrication of data communication cables, simple debugging of data communications, hardware problems and data terminal repair.
REQUIRES:
-- Skill in fabrication of cables and/or wiring harnesses
-- Basic skills in understanding and following building diagrams and cable layout
-- Skill in soldering techniques
-- Basic knowledge of EIA - CITT RS232 Standard

ALSO DESIRED, BUT NOT REQUIRED:
-- Skill in repairing data communications terminals
-- Understanding of modems and data communications

NOTE: This position is expected to last 4 months, with very slight possibility of extension.

Marsha Hanson, X517

Keypunch Operator (2) - #2738-9

CSD
Flat rate: $5.25/hour
DUTIES: Will keypunch and/or verify tabulated rawinsonde data onto standard computer cards. Will inspect tabulated forms for consistency and completeness and locate potential errors for correction prior to keypunching. Will assist in maintaining a log of all incoming and keypunched rawinsonde data.
REQUIRES:
-- Good skill in keypunching accurately on an IBM 129 or equivalent
-- Skill in preparing program cards for punching data on an IBM keypunch
-- Skill in doing repetitious tasks and paying attention to details
-- Skill in working with a minimum amount of supervision within guidelines
-- Basic knowledge of office procedures, such as filing

ALSO DESIRED, BUT NOT REQUIRED:
-- Ability/willingness to work occasional overtime and weekends
-- Skill in keypunching scientific data

NOTE: These positions are expected to last 4 months and will start approximately May 15th.

Sue Perry, X666

CASUAL, STUDENT ASSISTANT

Student Assistant II - #2757

CSD
Flat rate: $5.80/hour
DUTIES: Will reduce, plot and analyze data acquired from aircraft and radar in severe storms. Will perform hand calculations, draw graphs, do some basic analysis and simple programming in the research area of growth mechanisms of precipitation.
REQUIRES:
-- Full-time student status with ability/willingness to work 20 hours/week during school year and full-time during summer
-- Some knowledge of computer programming, including FORTRAN
-- Knowledge of mathematics as acquired by a calculus course
-- Willingness to/skill in performing tedious tasks neatly and accurately

Marsha Hanson, X517

Student Assistant II - #2759

ATD
Flat rate: $5.80/hour
DUTIES: To construct and test electronic circuits; operate electronic test equipment; to assist in performing laboratory and field tests on prototype circuits; and to produce schematics and parts lists for final draftsperson use.
REQUIRES:
-- Full-time student status, in physics or EE, junior through graduate level or equivalent
-- Ability/willingness to work 20 hours/week during school year and full-time during summer
-- Skills in electronic assembly and testing
-- Interest in working with hardware and practicing engineers in applied research environment

ALSO DESIRED, BUT NOT REQUIRED:
-- Skill in operation of lathe, milling machine
-- Familiarity with printed circuit layout and computer programming
-- Ability to qualify for and obtain a GSA driver's license (one cannot have more than 2 moving violations in past 3 years to qualify)

Valerie Friesen/Ben Cordova, X508
TEMPORARY, FULL-TIME
IN MILES CITY, MONTANA, FOR
THE COOPERATIVE CONVECTIVE PRECIPITATION EXPERIMENT
(CCOPE), approximately 1 May to 15 August 1981:

Computer Operator I - #2750

Flat rate: $6.50/hour
DUTIES: Will work as member of RAF staff and have
responsibility for all phases of input/output opera-
tions of a Hewlett-Packard 1000 computer system,
consisting of two magnetic tape drives and two
terminals.
REQUIRES:
-- High level skill in operations of HP 1000 or
equivalent computer
-- Moderate skills in organization, communication,
  problem solving and working independently
-- Working knowledge of FORTRAN

Marsha Hanson, X517
MONDAY, April 13

- HAO Special Seminar -- Solar Wind Disturbances Responsible for Geomagnetic Storms, S. I. Akasofu, University of Alaska
  10:30 a.m.
  NCAR Mesa Lab, Main Seminar Room

- CSD Seminar -- On the Freezing Drop Technique for Measuring Ice Nucleus Concentration in Precipitation, Thomas Kerrigan, Drexel University
  1:30 p.m.
  RL-6 Seminar Room

TUESDAY, April 14

- AAP Seminar -- Observations in Marine Stratocumulus-Topped Boundary Layers, Richard Brost, AAP
  3:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

WEDNESDAY, April 15

- ATD Special Seminar -- Thunderstorm Turbulence Hazard Detection, Robert K. Crane, Environmental Research and Technology, Inc.
  3:30 p.m.
  RL-6 Seminar Room

THURSDAY, April 16

- ACAD Seminar -- A Two Dimensional Photochemical Model Extending From the Ground to the Lower Thermosphere and Its Implications for Atmospheric Odd Nitrogen, Susan Soloman, ACAD
  1:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

- HAO Seminar -- Modeling Solar Flares, Charles Hyder, HAO
  3:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

FRIDAY, April 17

Open

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.