NOT FOR WOMEN ONLY: MARGARET DRAKE'S WORK WITH THE YWCA

The YWCA might bring to mind the old-fashioned image of a safe hotel for nice young ladies who visit or work in the big city. But Boulder has a YWCA that provides services for many diverse groups and has gone a long way toward becoming a valuable asset to the community. Margaret Drake (deputy director, Scientific Computing Division) recently completed four years as a board member (treasurer) of the YWCA. Staff Notes asked about her experiences with the community service and how she became interested in it.

"I had no idea when I started what a nonprofit organization goes through," said Margaret. "The president of the YWCA board invited me to try it. When I arrived, I met Anita Sanchez, the Y's great executive director. She was working on her Ph.D. and had already established good relations with other community service organizations and United Way, which provides some of the Y's support." Competition was keen, however, from other deserving organizations. The key was to pinpoint and provide services, often with emphasis on women, children, and the poor, that could be found nowhere else in the community.

Margaret is enthusiastic about the Y's programs, most of which she helped plan. They are no longer of a strictly middle-class nature. They include a career and employment counseling service. A computerized list of job openings is updated and shared with the city of Boulder, and employment counselors are available to give aptitude tests and to guide women (and men) in career choices. The YWCA also offers a legal information service with the assistance of Boulder attorneys. For $10, anyone may schedule an appointment to consult with a lawyer about a potential or existing legal problem. Emergency child care is also available through the YWCA on weekdays and Saturdays at a nominal charge. The service is aimed at meeting unforeseen child care needs, such as when a regular babysitter is sick. Volunteers will even pick up children from Louisville/Lafayette/Broomfield and bring them to the center, located at 14th Street and Mapleton Avenue. Margaret is also proud of the program for adults who were victims of sexual abuse as children. Their privacy is carefully protected while they receive support for a problem that may have been kept secret for many years.

While Margaret served on the board, the YWCA also provided activities for teens, including jobs (e.g., babysitting) and career counseling. It also provided a teen club and counselor at a Boulder trailer park. According to reports from the sheriff's department, delinquency in the area was
halved in the first year because kids had something constructive and fun to do. And the Y also offers cultural and artistic classes and workshops. It will sponsor its fourth annual Mother's Day race on 12 May for women of all ages. The organization also can refer people looking for other services to the right agency.

Margaret was on the YWCA's long-range planning committee, which analyzed what was available in the community, what was missing, and what the Y could reasonably do. There were of course always more things to do than there were funds to do them, according to Margaret, but the Y is committed to the present programs as long as they are met with popular demand.

In an era when federal dollars are scarce and don't always get the job done, through good management and strong volunteerism, the Y accomplishes an amazing amount. Through her experiences as a Y board member, Margaret says she has learned a great deal about the support centers available in the community. "Everyone is incredibly underpaid on the staffs," she says. "But the people do the work anyway, because they love it. They accomplish an order of magnitude more than if they were federally funded." The Y, for example, is run extremely professionally, she says, and is regularly audited so that it can report to United Way.

One of the most exciting phases of Margaret's tenure on the board was a campaign to raise capital and to gain space. The board advised the Y on which professional fund raisers to hire and kicked off the campaign, which succeeded in ending the Y's debt and enabled it to add badly needed space such as the Boy's Club dome at Bluff and Folsom Streets. The Y also recently had a major membership drive and welcomes new members. (Kathryn Strand of the High Altitude Observatory [HAO] is the membership chairman.)

"The YWCA's name (it stands for Young Women's Christian Association) may be a stumbling block to getting members these days," Margaret says. "But it is not religious in orientation; the name is a traditional, historical name, begun when it was founded in a largely Christian society." There is no religious preference or ceremony that would affect members or those getting services. The organization is not limited to women and children either. It tries to move with the times, and today is very interested in the question of racial equality. (The elimination of racism is an avowed goal of the national YWCA.) Although they do not see racism as a big problem in Boulder, the board has sought minority representation in its programs and solicited advisers to enlighten them on racial issues. The international YWCA is emphasizing helping the poor.

Margaret is now serving on the United Way board and sees a good amount of community support and volunteerism in the Boulder County United Way. She is on one committee to look at new organizations that United Way can support and another that is examining this year's allocation. She mentions that others at NCAR are active in United Way, including Percy Peterson (Scientific Computing Division), Jeff Reaves (Administration Division), Donna Sanerib (Atmospheric Chemistry Division [ACD]), Teresa LaCrue (ACD), Christine Guzy (HAO), Justin Smalley (Atmospheric Technology Division [ATD]), Julianna Chow (Atmospheric Analysis and Prediction Division [AAP]), Gretchen Escobar (AAP), and Charles Purdy (ATD). Margaret believes this degree of commitment demonstrates the organization's ability to attract and use community leaders.

ESIG HOSTS CLIMATE-IMPACT WORKSHOP

The Advanced Study Program's Environmental and Societal Impacts Groups (ESIG) is hosting a workshop (called a "Networkshop") next week to bring together representatives of North American groups, centers, and institutes that are involved in assessing the impacts of climate-related events. The overriding objective of the workshop is to evaluate the need for a network of climate-related impacts groups.

"The field of climate-related impact assessments includes people researching in a wide variety of areas, such as agriculture, energy, water, and transportation," explains Michael Glantz, who is head of ESIG, "and many of them are unaware of the climate-related research in areas outside their own specialties. We believe that the research community needs a mechanism for increasing their awareness of all the climate-related activities now in progress. This is one of the primary purposes of the meeting.

"We also need to examine the problems and prospects for climate-related impact assessment," Mickey continues. "By bringing together people in related fields so that they can share their research experiences by meeting each other and learning what research is being done in other fields, we hope to improve the quality of policy decisions in important, climate-related areas."
Representatives of 40 research groups and nine government agencies have been invited to attend the Networkshop. Organization has been under way for several months. This summer, Mickey plans to pursue the networkshop concept on an international scale. He has been involved in discussions with the World Meteorological Organization's World Climate Program about the possibility of establishing an international workshop and a final determination will be made this summer.

Next week's Networkshop will be held in the Main Seminar Room of the Mesa Laboratory on 6, 7, and 8 May. While space will be severely limited, NCAR staff members are welcome to attend. A final report of the proceedings will be available from ESIG.

ANNOUNCEMENTS

WORD PROCESSING SURVEY

The Administration and Scientific Computing divisions have launched an office automation study to examine dedicated word processing systems, personal computers, and communication networks. A study group has been formed to develop planning guidelines for each of these areas by September 1985. Members of the group are Ben Domenico, Valerie Friesen, David Makowski, Carol Nicolaidis, Lynn Post, John Szajgin, and Pat Waukau.

According to David, who heads the group, one motivation for this work came from the increasing frustration encountered by many staff in trying to share documents electronically within a division as well as between divisions. The proliferation of hardware at NCAR raises questions about linkages among existing equipment as well as means for sharing information that can help people make decisions about future acquisitions.

The study group has developed two questionnaires to gather information about office automation at NCAR. The first is an interview to be conducted orally with selected individuals in each division. The second is a short printed questionnaire that will be mailed out to all NCAR staff the week of 6 May. The study group asks all NCAR staff to answer the questionnaire and to return it promptly. The group plans to review and discuss the guidelines they develop with an expanded group representing all divisions before making a final report.

SUMMER SWITCHBOARD HOURS

Beginning next week, 6 May, the switchboard will assume its summer hours: 7:30 a.m. to 4:30 p.m.

EMPLOYEE DISCOUNTS

The Employee Activities Committee (EAC) has recently compiled and distributed a list of discounts available to NCAR employees from merchants in the Boulder area. The EAC is indebted to a long list of volunteers in completing this list, including the Copy Center, which reduced and printed it. If you have not received a copy of the list, please call EAC representative Mary Ann Shephird, ext. 8704.

CAFETERIA NEWS

The Wednesday lunch special for next week (8 May) will be meat loaf with a baked potato, a vegetable, chocolate cake, and coffee or tea, all for $3.50.

The breakfast special for next week will be huevos Monterey with coffee or tea for $2.25.

The winner of this week's free lunch is BILL MANKIN.

TIME NOW COSTS MONEY

A call to the public time and temperature number now costs a quarter. The Department of Commerce has a number for time (499-7111), and the weather forecast can be obtained by calling the National Weather Service in Denver (639-1212). Staff members are requested to call these numbers instead of the toll number; the quarters add up quickly!

EUROPEAN SNAPSHOTS NEEDED

For a brochure on the Mesa Laboratory, Lucy Warner is looking for pictures of hilltop structures reminiscent of our headquarters such as castles, walled towns, or monasteries on clifftops. Either black-and-white snapshots or slides will do. If you have any mementos of European trips that might fit the bill, contact Lucy, ext. 1190.

VISITORS

Donald Cahoon Jr., NASA Langley Research Center. Field of interest: Flux analysis. 29 April-3 May. RL-6 room S110, ext. 8903.

--Donald Lenschow, Atmospheric Analysis and Prediction Division

(Continued)
Philip Fearnside, National Research Institute for Amazonia, Manaus-Amazonas, Brazil. Field of interest: Tropical deforestation and its climate impacts. 5-9 May. Library carrel no. 3, ext. 1320.
--Robert Dickinson, Atmospheric Analysis and Prediction Division

John Ritter, NASA Langley Research Center. Field of interest: Flux analysis. 29 April-1 May.
--Donald Lenschow, Atmospheric Analysis and Prediction Division

Mark Shippam, NASA Langley Research Center. Field of interest: Flux analysis. 29 April-3 May. RL-6 room S110, ext. 8903.
--Donald Lenschow, Atmospheric Analysis and Prediction Division

The following visitors will attend the Climate Impacts Networkshop sponsored by the Environmental and Societal Impacts Group from 6 to 8 May:

Jesse Ausubel
Donald Borock
David Burns
Robert Chen
Peter Ciborowski
Lee Dillard
Harold Dregne
William Easterling
Amos Eddy
David Fluharty
Kenneth Frederick
Peter Gleick
Lino Grima
Jerry Hall
Howard Hill
Charles Hutchinson
Peter Lamb
Diana Liverman
James Mahoney
Gordon McKay
William Meyers
Barbara Miller
Irving Mintzer
Granger Morgan
Allan Murphy
Martin Parry
David Phillips
Ned Raun
Steven Rhodes
William Riebsame
Norman Rosenberg
John Sandilands
Richard Shikiar
Gerald Soffen
Bruce Stone
Norton Strommen
Suwanna Tanturat
Thomas Vonder Haar
T.M.L. Wigley
Donald Wilhite
Abner Womack

National Academy of Engineering, Washington, D.C.
Gettysburg College
American Association for the Advancement of Science
University of North Carolina
Hubert Humphrey Institute of Public Policy, Minneapolis, Minnesota
Clark University
Texas Technical University
Illinois State Water Survey
University of Oklahoma
University of Washington
Resources for the Future, Washington, D.C.
University of California at Berkeley
University of Toronto, Ontario, Canada
Sir Wilfred Laurier University, Waterloo, Ontario, Canada

Howard Hill
National Climate Program Office, Rockville, Maryland
Charles Hutchinson
University of Arizona
Peter Lamb
University of Minnesota
Diana Liverman
University of Wisconsin
James Mahoney
Bechtel Group, Inc., San Francisco, California
Gordon McKay
Canadian Climate Centre, Toronto, Ontario, Canada
William Meyers
Iowa State University
Barbara Miller
Global Perspectives in Education, New York, New York
Irving Mintzer
World Resources Institute, Washington, D.C.
Granger Morgan
Carnegie-Mellon University
Allan Murphy
Oregon State University
Martin Parry
International Institute for Applied Systems Analysis, Laxenburg, Austria
David Phillips
Wisner International
Ned Raun
Morrilton, Arkansas
Steven Rhodes
Stapleton Airport Expansion Office, Denver
William Riebsame
University of Colorado
Norman Rosenberg
University of Nebraska
John Sandilands
Canadian Climate Centre
Richard Shikiar
Battelle Human Affairs Research Center, Seattle, Washington
Gerald Soffen
NASA Goddard Space Flight Center
Bruce Stone
International Food Policy Research Institute, Washington, D.C.
Norton Strommen
U.S. Department of Agriculture
Suwanna Tanturat
University of Oklahoma
Thomas Vonder Haar
Colorado State University
T.M.L. Wigley
University of East Anglia, Norwich, England
Donald Wilhite
University of Nebraska
Abner Womack
University of Missouri
LIBRARY NEWS
May 3, 1985

LIBRARY SERVICES

MESA LIBRARY MICROFICHE COPYING IS AVAILABLE

In recognizing the value of microfiche technical reports, we will provide, at no cost to you, MICROFICHE copies of library owned microfiche technical reports. Depending on the load, we will duplicate up to five library owned microfiche per scientist per week. Your copy is in the form of microfiche - NOT paper. Turnaround time is about one week. To order your microfiche copies, either check off the desired microfiche from Library News or other library announcements of new microfiche, or send in the microfiche reference(s) separately. Send to Gayl Gray.

* * *

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 May 2 - May 9, and in the RL-6 Library May 3 - May 10. New acquisitions announced last week (Apr. 26) are presently on display in the RL-6 Library through May 9. You may reserve them during display for subsequent checkout.

NCAR members located off the Mesa 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, RL-6, RL-3, MAR and RAF Libraries are in the following list. REFerence material does not circulate.


A CRITICAL ANALYSIS OF OCEAN THERMAL ANALYSIS MODELS IN OPERATION AT FNOC. Brady, B.J., 1984.

INTERNATIONAL HANDBOOK OF UNIVERSITIES AND OTHER INSTITUTIONS OF HIGHER EDUCATION. Aitken, D.J., 1983.


INTRODUCTION TO NONLINEAR LASER SPECTROSCOPY. Levenson, M.D., 1982.


PROGRAMS AND ABSTRACTS: IAMAP GENERAL ASSEMBLY. WMO, 1983.


NEW TECHNICAL REPORTS

ENVIRONMENTAL SCIENCE

NEW TECHNICAL REPORTS

MATHEMATICS AND COMPUTER SCIENCE

22768. -- WOOD R J, COMPUTER AIDED PROGRAM SYNTHESIS (1982)
22769. -- KIRBY R L (ET AL), TIPS: TRANSPORTABLE IMAGE PROCESSING SOFTWARE (1983)
22770. -- O'LEARY D P, SOLVING SPARSE MATRIX PROBLEMS ON PARALLEL COMPUTERS (1982)
22772. -- WEISER M (ET AL), MARYLAND WINDOW SYSTEMS (1983)
22773. -- CHU Y (ET AL), HIGH-LEVEL DEBUGGING BY INTERACTIVE DIRECT-EXECUTION (1983)
22774. -- WALLACE R S, PIL (PROLOG IN LISP) INTRODUCTION, IMPLEMENTATION, DOCUMENTATION RL-3 (1983)
22778. -- TRIGG R H, NETWORK-BASED APPROACH TO TEXT HANDLING FOR THE ONLINE SCIENTIFIC COMMUNITY (1983)
22779. -- O'LEARY D P (ET AL), DATA-FLOW ALGORITHMS FOR PARALLEL MATRIX COMPUTATIONS (1984)

NEW MICROFICHE

To receive, for your retention, personal microfiche copies of the following, check off the desired report(s) and send to Gayl Gray.

ATMOSPHERIC SCIENCE

( ) ADA145366. -- ROTHWELL P L (ET AL), GLOBAL SINGLE ION EFFECTS WITHIN THE EARTH'S PLASMA SHEET (1984)
( ) ADA145384. -- MILLER R L, ARC CLOUD COMPLEX A CASE STUDY (1984)
( ) ADA145560. -- REMIEKA M F, CASE STUDY OF A CONVECTIVE OUTBREAK USING VAS-DERIVED THERMODYNAMIC PARAMETERS (1984)
( ) ADA145654. -- WILDE N P, LIFTING CONDENSATION LEVEL AND ITS RELATION TO CONVECTIVE CLOUD BASE (1984)
( ) CONF8410391. -- WESELY M L (ET AL), VARIABILITY OF SHORT-TERM EDDY-CORRELATION ESTIMATES OF MASS EXCHANGE (1984)
( ) UCRL90666. -- LEE R L (ET AL), NUMERICAL CALCULATIONS OF STRATIFIED EKMAN LAYER FLOW OVER RIDGES WITH A FINITE ELEMENT MODEL (1984)
( ) BNL34038. -- SCHWARTZ S E, USE OF TRACERS FOR THE STUDY OF ATMOSPHERIC CHEMICAL AND PHYSICAL TRANSFORMATION PROCESSES (1984)
( ) DOEEV100985. -- PALUTIKOF J P (ET AL), SEASONAL CLIMATE SCENARIOS FOR EUROPE AND NORTH AMERICA IN A HIGH-CO2 WARMER WORLD (1984)
( ) DP1679. -- HOEL D D, CLIMATOLOGY OF THE SAHARA RIVER PLANT SITE (1984)
( ) UCRL90296. -- WEBBLES D J, TRENDS IN OZONE AND TEMPERATURE STRUCTURE: COMPARISON OF THEORY AND MEASUREMENTS (1984)
( ) N8432/88. -- VONNEGUT B (ET AL), MESOSCALE OBSERVATIONS OF LIGHTNING FROM SPACE SHUTTLE (1984)
( ) PB84245745. -- TREADO S (ET AL), NBS (NATIONAL BUREAU OF STANDARDS) DAYLIGHT AVAILABILITY DATABASE (1984)
JOB OPENINGS

May 1, 1985

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.

ADMINISTRATIVE ASSISTANT - #0386

ADM - Physical Facilities Services
Non-exempt Range: 29, $1,579 - 2,051/month (85)

DUTIES: Oversees the efficient operation of the Physical Facilities Services (PFS) office; tracks expenditures for a $2 million budget and corrects data entry errors to maintain accuracy; oversees information flow and communications for the PFS office; assists Manager, Space and General Services with expenditure tracking, compiling reports & space allocation; maintains files and records; implements a record retention and disposal cycle; under general instructions, performs analyses of utility billings, utility demand & occupancy normatives; composes memos; prepares drafts of blanket orders; makes travel arrangements; prepares final copy from handwritten drafts making appropriate corrections in grammar, punctuation and syntax.

REQUIRES:
--Skill in bookkeeping, expenditure tracking, data entry, error analysis and error correction
--Skill in operating word processors, ADP terminals and minicomputers
--Skill in general secretarial and office management functions
--Skill in dealing with customers and the general public
--Demonstrated skill in visualizing a business system and understanding how an action will impact the system
--Skill in grammar, punctuation and writing

Becky Foco X8710

CHIEF LIBRARIAN - #0379

ADM - Scientific Support Services
Exempt Range: 43, $28,308 - $42,462/year (85)

DUTIES: Oversees all functions performed by library personnel; formulates and implements library policies and procedures; consults on broad policy matters with the Scientific Support Services Manager and a scientist's Library Board; will supervise employees in ways consistent with UCAR policies and with its equal employment opportunity and affirmative action programs; manages an annual budget of about $400,000; assures responsive collection development and dissemination of information by maintaining familiarity with NCAR research programs, consulting with individual scientists and scientific groups, and coordinating acquisitions through scientist's acquisition committees; maintains awareness of state-of-the-art developments in library automation and aggressively applies them at NCAR; seeks new literature data bases relevant to NCAR research areas; fosters innovative record management practices; analyses library statistics and reports as requested; may publish technical articles on subjects pertaining to special libraries; maintains professional contacts with other libraries and librarians to facilitate mutual cooperation and to share professional knowledge; maintains other professional contacts such as NASA Scientific and Technical Information Center, OCLC, BRS, Fedlink, NOAA, BCR, SLA, SAA, ASIS, and RMUOG; maintains contacts with vendors and suppliers of library materials, equipment, and services, including publishers, translation centers, bibliographic services, microfilm services and equipment, and furniture suppliers.

REQUIRES:
--B.S. in a physical science and a master's degree from an ALA accredited program, or their equivalents.
--Demonstrated knowledge of the information needs of physical scientists and their allied support fields, as normally acquired through experience in a technical or science library.
--Commitment to the goals of scientific and technical research
--Record of creative leadership skill in a research library
--Demonstrated skill in managing personnel, budgets, and other administrative matters
--Demonstrated skill at library automation, networking, and online systems, and record of innovative leadership in applying automated methods to library functions
--Strong communication skills, both oral and written

Also Desired, but Not Required:
--Skill or familiarity with Stanford Public Information Retrieval System (SPIRES) and with the following data base sources: Dialog, NASA RECON, Orbit (SDC Search Service), NOAA NEDRES, STN International (for CAS Online and Physics Briefs), BRS.
--Masters degree in a physical science or equivalent

Becky Foco X8710

COPY CENTER TECHNICIAN - #0395

ADM - Copy Center
Non-Exempt Range: 25, $39.50 - $42/month (.5 FTE)

DUTIES: Operates a Xerox 9500 highspeed, high-volume duplicator and a Xerox 1075 copier; operates a three-hole paper drill and a heavy-duty stapling machine; checks
original copy submitted for duplicating to insure adequate quality for machine reproduction; assists self-service users of Xerox 1075 copier; keeps copy center stocked with paper and other necessary supplies; provides backup operation for NCAR's offset camera operation to produce PMT enlargements and reductions of a variety of illustrative materials.

REQUIRES:
-- Skill in operating machines of a non-complex nature
-- Skill in organizing and producing work quickly, neatly, at times under pressure, and often independently
-- Skill in checking work for completeness and correctness
-- Knowledge of other copiers and duplicating machines; skill in learning alternative equipment
-- Knowledge of and/or previous experience in operating offset cameras
-- Strong oral communication skills
-- Willingness to work in a non-smoking environment

Becky Foco X8710

INTERNAL AUDITOR - #0381

UCAR - Finance and Administration
Exempt Range: 74, $33,280 - 49,920/year (85)
DUTIES: Under the day-to-day administrative supervision of the UCAR Director of Finance and Administration, examines and evaluates the effectiveness of UCAR's system of internal control, including EDP controls; determines compliance with UCAR policies and operating procedures, and evaluates accountability for financial and physical assets and resources of UCAR and all of its entities. Conducts reviews of the reliability and integrity of financial information and the means used to identify, measure, classify and report such information. Evaluates the systems established to ensure compliance with UCAR policies, plans, procedures, applicable laws and regulations, and determines whether the organization is in compliance. Reviews the means of safeguarding corporate and government assets, and periodically verifies the existence of such assets. Verifies the accuracy of the system used to account for the use of resources. In each of the above responsibility areas, through application of a thorough understanding and knowledge of auditing principles and techniques: 1) identifies areas subject to audit coverage, evaluates their significance, and assesses the degree of risk exposure inherent in each area; 2) develops a comprehensive, practical program of annual audit coverage, securing approval from the Audit Committee of the Board of Trustees; 3) plans the scope of each audit project and prepares a detailed audit program; 4) obtains, analyzes and appraises evidentiary data as a basis for an informed, objective opinion on the compliance of the activities being reviewed with corporate policy and accepted business practices; 5) evaluates compliance with contractual obligations through the application of a knowledge of business systems and practices, applicable procurement regulations, and contract provisions; 6) conducts special reviews as requested by the UCAR Audit Committee. Conducts exit interviews with the supervisor(s) of the functions audited discussing audit findings; following this interview, prepares a draft audit report for submission to the supervisor(s), to management of the operating entity being audited, and to the UCAR Director of Finance and Administration for review and comment; after due consideration of said comments, issues a final audit report to the above-named individuals as well as the President of the Corporation and the Audit Committee of the Board. Also furnishes to the Chairman of the Audit Committee management responses to audits and resulting changes in policy and practice.
REQUIRES:
-- B.S. in business administration with a major in accounting or a B.S. in accounting AND 4 years experience as an auditor for a public accounting firm or as an internal auditor in a complex business environment with at least one of those years as a senior auditor OR the equivalent combination of education and experience
-- Comprehensive knowledge of and demonstrated skill in the implementation of accounting and auditing theory, application and practice
-- General working knowledge of the concepts, principles and practices of several of the following: general business, financial management, personnel management and procurement
-- Skill in data processing auditing
-- Demonstrated skill in written and oral communication
-- Demonstrated skill in dealing effectively with a wide range of people at every level in an organization
-- Demonstrated skill in working independently
-- Demonstrated skill in exercising professional judgment in a wide variety of sensitive circumstances

ALSO DESIRED, BUT NOT REQUIRED:
-- CPA
-- Skill in systems design and analysis
-- Working knowledge of the functions and operations of federal contractors, federal government agencies, and nonprofit research or university operations

Nancy Lippincott, X8729

SCIENTIST I - #0383

SCD - Advanced Methods Group
Exempt Range: 82, $27,108 - 40,656/year (84)
84, $28,188 - 42,282/year (85)
DUTIES: Conducts independent research on mathematical and computational methods relevant to physical problems in the atmospheric sciences. Presents results of research at meetings and in scientific journals. Keeps abreast of recent advances in mathematical and numerical modeling. Consults with atmospheric scientists on initial-boundary value problems arising in geophysical fluid dynamics. Participates in joint projects with scientists as a mathematic and computational expert. Receives requests for computer time, seeks peer review of these requests, and attends the SCD Advisory Panel meetings. Serves on committees as requested by divisional management.
REQUIRES:
-- Ph.D. in Applied Mathematics or equivalent training
-- Skill in the analysis of initial-boundary value problems
-- Skill in the analysis of numerical methods for partial differential equations
-- Basic skill in large-scale computations in geophysical fluid dynamics
-- Strong written and oral communication skills
-- Demonstrated interpersonal skills
NOTE: Scientist I appointments are for terms of up to three years. Individuals may be appointed to the next higher level of Scientist in accordance with the UCAR Scientific Appointments policy.
Nancy Lippincott, X8729

**SCIENTIST I - #0384**

ACD - Optical Techniques Project
Exempt Range: 82, $27,104 - 40,656/year (84) 84, $28,188 - 42,282/year (85)

**DUTIES:**
Develops tunable laser absorption systems for field applications, and applies the methods developed for ground and aircraft measurements of key tropospheric species; performs conceptual design and specification for electronic, mechanical, and optical equipment and works with electronic and mechanical design and fabrication groups to ensure proper operation; designs and performs test and calibration procedures on laser spectrometer to ensure that it meets performance requirements; assists in general operation of Optical Techniques laboratory including maintenance of equipment, facilities and supplies; participates in the collection, analysis, and publication of data on the spectroscopy of the terrestrial atmosphere for study of the chemical composition and radiative and climatic effects; and publishes results in recognized professional journals.

**REQUIRES:**
-- Academic knowledge and skill level associated with Ph.D. degree in atmospheric physics or chemistry, with emphasis on experimental work
-- Demonstrated skill in experimental research and development of advanced instrumentation as evidenced by publications
-- Skill with and working knowledge of vacuum systems, cryogenics, and gas sample handling
-- Familiarity with the theory and practice of infrared spectroscopy
-- Flexibility in constructing, maintaining, and using electronic equipment
-- Skill at working effectively in a group of diverse individuals with a wide range of academic levels

**DESIRED BUT NOT REQUIRED:**
-- Ability to utilize optical instrumentation

**NOTE:** Scientist I appointments are for terms of up to three years. Individuals may be appointed to the next higher level of Scientist in accordance with the UCAR Scientific Appointments policy.
Debi Koepke X8728

**STUDENT ASSISTANT I - #0393**

HAO - Director's Office
Flat Rate: $5.65/hour

**DUTIES:**
Verifies and searches for bibliographic information and handwrites information on cards; enters bibliographic information from cards into HAO computer publication files with the Unix word processing system.

**REQUIRES:**
-- Willingness to utilize a computer word processing system
-- Willingness to work under minimal supervision and at remote sites
-- Experience in using a two-way radio

**CASUAL GUARD - #0369, #0370**

(2 Positions)

ADM - Security Services
Non-Exempt Range: 25, $5.99 - $7.77/hour

**DUTIES:**
Makes inspection trips by foot and vehicle; renders first aid when necessary; operates two-way radio and paging system; receives NCAR telephone calls during non-business hours; protects building and contents against loss by fire, theft and illegal activities.

**REQUIRES:**
-- Demonstrated skill in communicating effectively with a wide range of people and using good judgment
-- Willingness to perform work in hazardous situations, including maintenance of equipment
-- Willingness to work under minimal supervision and at remote sites
-- Experience in using a two-way radio

**NOTE:** This position is for a two to three month term.
Becky Foco X8710

**SECURITY GUARD - #0369, #0370**

(2 Positions)

ADM - Security Services
Non-Exempt Range: 25, $5.99 - $7.77/hour

**DUTIES:**
Makes inspection trips by foot and vehicle; renders first aid when necessary; operates two-way radio and paging system; receives NCAR telephone calls during non-business hours; protects building and contents against loss by fire, theft and illegal activities.

**REQUIRES:**
-- Demonstrated skill in communicating effectively with a wide range of people and using good judgment
-- Willingness to perform work in hazardous situations, including maintenance of equipment
-- Willingness to work under minimal supervision and at remote sites
-- Experience in using a two-way radio

**NOTE:** This position is for a two to three month term.
Becky Foco X8710
STUDENT ASSISTANT II - #0387

CSD - Cloud Physics Instrumentation
Flat Rate: $6.90/hour
DUTIES: Runs a tomographic retrieval program for clouds by submitting jobs to a CRAY-I from a VAX minicomputer and uses computer graphics to display the results. Makes minor modifications to the existing program and writes instructions for running it.
REQUIRES:
---Skill in FORTRAN programming which would typically be acquired through one year of course work
---Skill at working with integral calculus, basic electromagnetic theory and basic thermodynamics
---Must be enrolled for credit in an accredited secondary or post secondary school, college or university; or in a trade school which has received a Certificate of Approval from the Colorado State Board for Community Colleges and Occupational Education
---Ability to work up to 20 hours/week during periods school is in session, and full-time during breaks

ALSO DESIRED, BUT NOT REQUIRED:
---Skill at job control language for batch processing of a large mainframe
---Basic skill in presenting scientific data with computer graphics
Debi Koepke X8728

STUDENT ASSISTANT II - #0389

AAP - Mesoscale Research Section
Flat Rate: $6.90/hour
DUTIES: Provides programming support for cloud modeling research. Maintains, operates and assists in developing computer programs required for model runs and for the storage of history files. Creates and maintains general purpose programs on the VAX 11/780 for display of model data. Develops skills to work independently under general supervision.
REQUIRES:
---Basic skill in FORTRAN programming
---Interest in developing programming expertise on a mini-computer system
---Must be enrolled for credit in an accredited secondary or post secondary school, college or university; or in a trade school which has received a Certificate of Approval from the Colorado State Board for Community Colleges and Occupational Education
---Ability to work 20 hours/week during periods school is in session, and full-time during breaks

ALSO DESIRED, BUT NOT REQUIRED:
---Background in physical science or mathematics
---Intention to remain a student (undergraduate or graduate) for at least the next two years
Nancy Lippincott X8729

STUDENT ASSISTANT II - #0392

CSD - Mesoscale Interactions Group
Flat Rate: $6.90/hour
DUTIES: Runs, modifies, maintains and writes FORTRAN programs of varying difficulties on the CRAY-I and VAX II/750. Performs data reduction including the tabulation and plotting of aircraft, rawinsonde and radar data pertinent to observational studies of convective clouds.
REQUIRES:
---Demonstrated skill in FORTRAN programming which could typically be acquired through at least 2 programming classes
---Demonstrated high level skill in math through calculus which would typically be acquired through 2 semesters of calculus classes
---Skill at performing tedious and detailed work accurately (such as tabulations, plotting graphs, digitizing)
---Skill in working independently and reliably
---Willingness to work 15-20 hours/week during the academic year and full-time during breaks
---Basic skill at operating VMS system on VAX II/750
---Skill at working with several people on different projects at the same time
---Must be enrolled for credit in an accredited secondary or post secondary school, college or university; or in a trade school which has received a Certificate of Approval from the Colorado State Board for Community Colleges and Occupational Education

ALSO DESIRED, BUT NOT REQUIRED:
---Basic skill at running jobs on NCAR's CRAY-I
---Basic skill at determining problems to be handled in modifying and writing programs using magnetic tapes and computer graphics
Debi Koepke X8728

* Asterisked positions are appearing in "Job Openings" for the first time.*
MONDAY, May 6th
OPEN

TUESDAY, May 7th
OPEN

WEDNESDAY, May 8th

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

- CSD Seminar -- Snow on Floating Ice Sheets -- Charles A. Knight, CSD
  3:30 p.m.
  RL-6 Seminar Room (W179)

THURSDAY, May 9th

- AAP Seminar -- Deforestation in the Amazon -- Philip M. Fearnside, INPA, Brazil
  10:30 a.m.
  NCAR Mesa Lab, Main Seminar Room

- HAO Seminar -- The Distribution of Metallicity in the Field of the Galactic Halo -- Nicholas B. Suntzeff, The Mt. Wilson and Las Campanas Observatories of the Carnegie Institution of Washington
  3:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

FRIDAY, May 10th
OPEN

MONDAY, May 13th
OPEN

Calendar Notes announcements may be mailed to Holly Hatton, ML 140. Wednesday at 12:00 Noon is the deadline for items to be included into Calendar Notes.