Tucked into two rooms in RL-3 is the headquarters of a project to study the capricious winter cyclones that are born off the Carolina coast—atmospheric disturbances that can cause devastating weather, including heavy snowfalls, over the entire eastern seaboard.

Why is the Genesis of Atlantic Lows Experiment (GALE) project office in Boulder, some 2,600 kilometers from the Atlantic Ocean? Richard Dirks, director of the office, smiles at the question. "It may seem odd to have the office here, but we're using many of ATO's [the Atmospheric Technology Division] facilities, and Joachim Kuettner [a visitor in the Atmospheric Analysis and Prediction Division], an advisor and consultant to GALE, has had a lot of experience in big field experiment management." A National Science Foundation (NSF) project, GALE is using space provided by NCAR.

"This is the first integrated project that's been done on the East Coast," continues Dick, a National Science Foundation (NSF) staff member who moved here with his family from the Washington, D.C., area in July to manage the GALE office. "Bits and pieces have been looked at, but the measurement capabilities for this kind of project have not been available until recently."

Most East Coast storms either arise in the area that will be studied in GALE or come in from the west. Dick points out, "Storms from the Midwest are more predictable than the major East Coast cyclones. The uncertainty with these storms is how much they will intensify and where they'll go—and that means, for instance, whether Washington gets rain, freezing rain, two inches of snow, or 12 inches."

But, Dick hastens to add, "The project does not just concentrate on the few, somewhat rare East Coast cyclones. It will study a variety of mesoscale [storm-sized] systems. We will be looking at how the Appalachian Mountains, the coastal geography, and the ocean boundary, particularly the Gulf Stream, contribute to the formation and occurrence of winter storms."

The heart of GALE is a two-month field project scheduled for mid-January to mid-March 1986. The experiment will blanket a wide band of the Atlantic coast, centering on Cape Hatteras, North Carolina, with meteorological instruments of all kinds: sounding balloons, National Weather Service and research radars, micrometeorological towers, portable automated mesonet (PAM) stations, weather buoys, and a research ship. Research aircraft and satellite observations will give further support.

Throughout the area of the experiment, which stretches from southern Virginia to northern Florida and from the western edge of South Carolina to the Gulf Stream, the various devices will be spaced at most 100 kilometers apart, and they will take measurements every 1.5 to 3 hours. Within this closely monitored area, scientists should be able to get a good picture of the weather patterns connected with the genesis of storms. (Continued)
Scientists participating in the experiment expect that the vast number of measurements they will obtain will improve their understanding of air-sea-land interactions in the development of storms. They also will be able to compare the structures of newly formed East Coast cyclones with those of "older" cyclones that have moved eastward into the experiment area. They hope to get new ideas about how to upgrade short-range forecasting of the coastal storms and about developing and testing numerical models for the prediction of these kinds of storms.

ATD's Field Observing Facility is providing and operating 50 PAM II stations, two Doppler radars, and the safesondes; the Research Aviation Facility is furnishing NCAR's King Air, Electra, and Sabreliner aircraft. Equally valuable to GALE is the expertise of several people at NCAR. Joachim Kuettner and Robert Serafin (ATD) are both on the Scientific Steering Committee, responsible for overall guidance and scientific oversight of the project. Paul Herzegh and Peter Hildebrand of ATD are members of the Experimental Design Panel. Paul will be involved in Doppler radar studies, and Peter will contribute to boundary-layer and airborne Doppler radar studies. The chair of the GALE Radar Working Group is Thomas Matejka of the Convective Storms Division. Other ATD staff members participating in the experimental design and operational planning are James Moore, Vincent Lally, and Paul Spyers-Duran.

Scientific participants come from 11 universities and research institutions, mainly on the East Coast but also as far away as Washington state. "This was a real grass-roots project; it was generated from the bottom up," Dick explains. "A handful of scientists who were interested in looking at the problems of East Coast storms got together and came to NSF for funding. By the review and evaluation processes, the project was expanded and weak areas were filled in."

To add to the massive endeavor of GALE, "The Canadians will carry out a complementary program," Dick says, "to look at the same storms as they move into the maritime provinces of Canada. They're particularly concerned about predicting these storms because of the threat to the offshore drilling in the area."

Between now and January 1986, there is still a vast amount of organizing and planning to finish. Dick reports, "The facility requirements are pretty much in hand. The next step is to work out the details of how we go about the field experiment to satisfy everyone's scientific interest."

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**ANNOUNCEMENTS**

**CAFETERIA NEWS**

The Wednesday lunch special for next week (21 November) will be shepherd's pie with a vegetable, chocolate applesauce cake, and a 25¢ drink, all for $2.75.

The breakfast special for next week will be an egg burger with coffee or tea for $1.75.

The winner of this week's free lunch is:

AMY STEVENS

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**ADMIN. COMPUTER CLASSES**

A series of half-day classes in how to use the Administration Division computer will be offered mornings during the last week in November. RECALL, the data retrieval system, will be explained by Diane Norman (ext. 8886) on Monday, 26 November. On Tuesday and Wednesday, 27 and 28 November, Diane will teach two sessions on the spread-sheet software ULTICALC. The following two days, 29 and 30 November, Lynn Post (ext. 8880) will discuss JET, the word processing system. All classes will be held at the Administrative Computing and Systems offices on 55th Street.

These are probably the last introductory JET and ULTICALC classes to be offered for some time. However, an ULTICALC refresher course will be scheduled for some time in December. Current ULTICALC users are encouraged to submit spread sheets ahead of time for these classes; the overhead projector will be used to discuss formats, formulas, and other tricks of the trade.

For details of the November classes, please call the instructors; to register, call Pam Wolfe, ext. 8850, between 8:30 a.m. and 2:30 p.m. Further information on the December ULTICALC refresher may be obtained from Diane Norman.
Better Air Campaign

The Employee Activities Committee (EAC) is helping to promote the Better Air Campaign, the Denver area program of voluntary no-drive days designed to cut down carbon monoxide pollution, by encouraging carpooling. They have compiled a list of UCAR/NCAR employees by work site and home zip code so that staff can pinpoint people with whom to share rides to work both during the campaign and after. To comply with the campaign, which began this week, staff are asked to refrain from driving one day a week. Copies of the list have been distributed to all EAC members and to representatives of each division. For further information, contact Mary Ann Shephird, ext. 8704.

NCAR Holiday Party

The annual NCAR staff holiday party, sponsored by the EAC, will be held on Friday, 14 December, from 3:00 to 7:00 p.m. The party begins with entertainment in the main lobby, preceding the annual Outstanding Performance Awards ceremony at 3:30. Nominations for the awards will be announced in a future issue of Staff Notes. After the awards, food and beverages (alcoholic and nonalcoholic) will be served in both the lobby and the cafeteria. Pat Downey will act as disk jockey in the cafeteria and is taking requests for music up until 7 December. Contact him at ext. 1343.

Discount on Boulder Philharmonic's Nutcracker

Through the EAC, the Boulder Philharmonic is offering NCAR staff members a special price on its performances of Tchaikovsky's Nutcracker Ballet. The Colorado Ballet (a Denver company) will be dancing. The performances are in Macky Auditorium Sunday, 2 December, at 1:30 and 5:00 p.m.; better seating is available for the later showing. Ticket prices are $5.40 for children under 12 and $10.80 for adults, a 10% saving over the regular price. Tickets can be obtained by calling 449-1343. To get the discount, mention NCAR when buying your ticket.

ZOT!

The next purge of data sets (VSNs) from the TBM will take place on 1 December and will affect VSNs not accessed since 1 September. The Scientific Computing Division requests all TBM users to help improve the efficiency of the system by refraining from updating unneeded VSNs. Dedicated-tape users are also urged to consider whether they continue to need old VSNs and to release all obsolete or unnecessary volumes. Mary Trembour, ext. 1232, will accept delete lists of unneeded VSNs from all users.

AX

THANKSGIVING HOLIDAY

Next Thursday and Friday, 22 and 23 November, are official NCAR holidays. Staff Notes will appear on Wednesday. Deadline for announcements and Calendar Notes listings to appear next week is Monday at noon.

POWER OUTAGE TOMORROW

On Saturday, 17 November, telephones at the Mesa Laboratory will not be functioning because of work that is being done on the building's electrical system. Electrical power to the north tower and labs on the 2B level will be interrupted intermittently. The interruptions will occur between the hours of 10:00 a.m. and 4:00 p.m.

DIRECTORY UPDATE

Bryan Baum 1634 ML 600
Pablo Vicharelli 1623 ML 505

VISITORS

Juerg Beer, University of Bern, Switzerland. Field of interest: Isotopic analysis of ice cores, climate. 14-15 November. --Gordon Newkirk, High Altitude Observatory

Victoria Kraus, Kansas State University. Field of interest: Climate impacts. 19-21 November. ML room 320, ext. 1620. --Michael Glantz, Advanced Study Program

Richard Pelz, Princeton University. Field of interest: Turbulence in convection problems. 8-16 November. RL-6 room W165, ext. 8920. --Jackson Herring, Atmospheric Analysis and Prediction Division

Kanaris Tsinanos, Harvard University. Field of interest: Magnetohydrodynamics. 19-23 November. ML room 460, ext. 1551. --Boon Chye Low, High Altitude Observatory
LIBRARY NEWS

November 16, 1984

LIBRARY SERVICES

*COMPUTER LITERATURE SEARCHING*

The library has literature searches covering the following topics stored on the NASA/RECON databases. These databases cover about 2 million references to the literature including unclassified NASA reports and articles from about 1000 journals in meteorology, electronics, physics, math, and other subjects relevant to both NASA and NCAR. Literature Search Topics are:

1. Airborne radar in meteorology
2. Batteries of several types
3. Computer hardware or software associated with either the Omega Navigation System or Loran C
4. Doppler radar in meteorology
5. Effect of topography on air pollution transport
6. Humidity measurement
7. Interferometers and Satellite Observations
8. Laser diodes
9. Lidar
10. Meteorological Atlases
11. Moisture flux
12. Objective analysis of mesoscale phenomena
13. Phase locked systems
14. Planetary or atmospheric boundary layer
15. Temperature measurement from aircraft

For the computer output for searches of these and other topics covering any time period from the last month only to 1969 to present contact Gayl Gray x1180.

My acquisitions recommendation is: ________________________________

for the Mesa, RL-6, RL-3, RAF, MAR Library. (Circle one) Name: ____________________

The following material will be displayed in the Mesa Library Nov. 16 - Nov. 23 and in the RL-6 Library Nov. 23 - Nov. 30. New acquisitions announced last week (Nov. 9) are presently on display in the RL-6 Library through Nov. 23. You may reserve them during display for subsequent checkout.

NCAR 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 and the Branch Libraries are in the following list. Reference material does not circulate.

<table>
<thead>
<tr>
<th>CALL NUMBER</th>
<th>NEW BOOKS</th>
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New books continued on next page
NEW BOOKS

IEEE INTERNATIONAL WORKSHOP ON COMPUTER SYSTEMS ORGANIZATION, 1983.
SOFTWARE ENGINEERING FOR SMALL COMPUTERS: A PROGRAMMER'S COMPANION.
SOFTWARE ENGINEERING WITH ADA. Booch, G., 1983.
THIS IS BASIC: AN INTRODUCTION OF COMPUTER PROGRAMMING.
Sutherland, Robert F., 1984.
INTRODUCTION TO FIELD THEORY. Adamson, Iain T., 1982.
TRANSFORMATION, SCATTERING THEORY, AND SPECIAL FUNCTIONS. Carroll, R.W., 1982.
INTRODUCTION TO THE THEORY OF LINEAR PARTIAL DIFFERENTIAL EQUATIONS.
PARTIAL DIFFERENTIAL EQUATION, TIME-PERIODIC SOLUTIONS. Vejvoda, O., 1982.
AN INTRODUCTION TO SOLAR RADIATION. Iqbal, M., 1983.
WINDBORNE PESTS AND DISEASES: METEOROLOGY OF AIRBORNE ORGANISMS.
FLUID MECHANICS MEASUREMENTS. Goldstein, R.J., 1983.

NEW TECHNICAL REPORTS

22508. -- LEMKE C, DEVELOPMENT OF GUIDANCE FORECASTS AT KNMI 2. EXTREME WINDSPEED IJMUIDEN (1984)
22511. -- BROOK M (ET AL), NIGHTTIME OBSERVATIONS OF THUNDERSTORM ELECTRICAL ACTIVITY FROM A HIGH ALTITUDE AIRPLANE (1984)
22516. -- MASS C F, SIMPLE MESOSCALE MODELS FOR OPERATIONAL USE IN REGIONS OF TOPOGRAPHIC AND THERMAL FORCING: DEVELOPMENT AND EVALUATION (1984)
22519. -- BERKOFSKY L, RAINFALL PATTERNS IN THE DESERT (1984)
CLERK I - #0320

HAO - Administrative Services
Non-Exempt Range: 22, $779 - 1,012/month
DUTIES: Sorts and handles incoming and outgoing mail; copies large documents; serves as key operator for the copy machine; maintains necessary office supply items; orders and delivers refreshments for seminars and meetings; maintains bulletin boards; prepares and distributes seminar notices; takes telephone messages; maintains sign-out sheets for the HAO meeting room, projectors, and films; answers written and telephoned information inquiries of a general nature; types letters and memos; and runs errands for the HAO Division.

REQUIRES:
-- Pleasant and cooperative attitude in dealing with many individuals
-- Skill in organizing work priorities
-- Skill at performing basic and repetitious tasks carefully and thoroughly
-- Accurate typing skill at approximately 45wpm
-- Skill at communicating effectively, both written and orally

DESIRED, BUT NOT REQUIRED:
-- Skill in office practices and procedures
-- Skill at word processing

Debi Koepke, X8728

ELECTRONIC TECHNICIAN I - #0331, #0332 (2 Positions)

ATD - Field Observing Facility
Non-Exempt Range: 27, $1,255 - 1,630/month
DUTIES: Operates a variety of measurement systems ranging from strip chart recorders to microwave radar systems; operates basic electronic test equipment and machine tools; assists in preparing radar systems for field experiments and participates in field experiments involving installation, operation, and maintenance of remote sensing equipment.

REQUIRES:
-- Knowledge of common electrical components and their use
-- Working knowledge of Ohm's law and its application
-- Skill in the use of basic electrical and electronics repair and testing equipment such as multimeters and oscilloscopes
-- Skill in electronic assembly
-- Skill in use of hand tools and basic machine shop equipment (drills, lathes, etc.)
-- Basic knowledge of digital logic
-- Skill at working well with others as a member of technical team
-- Willingness to travel for periods not usually exceeding two months but sometimes totalling 120 days per year
-- Physical ability to lift 70 pounds as needed
-- Willingness to work long hours in sometimes inclement weather
-- Current Colorado driver's license and ability to qualify for and obtain a GSA driver's license (to qualify, one cannot have more than 2 moving violations in the past 3 years)

NOTE: These positions are for a one year term
Debi Koepke, X8728

PERSONNEL ADMINISTRATOR - #0323

DIR - Personnel/EOP
Exempt Range: 71, $20,400 - $30,600/year
DUTIES: Under the general supervision of the Personnel Services Manager, provides human resources support to several NCAR divisions or UCAR facilities/groups. Works collaboratively with the divisions and makes recommendations or provides services for the day-to-day personnel operations of the divisions. Assures consistent implementation of NCAR personnel policies, procedures and the Affirmative Action compliance plan. Assumes primary responsibility for filling staff positions for the divisions or facilities/groups for which he/she is responsible; provides initial level of employee relations and EEO services and implements affirmative action goals, monitors salary review and performance appraisal process, interprets and provides policy information; assures that normal human resources actions occur and that the human resources needs of the divisions are met.
REQUIRES:
-- Demonstrated skill in the application of the principles of personnel/human resources administration.
-- Working knowledge of EEO/AA
-- Strong effective communication skills, both oral and written, particularly in sensitive situations and in discussions of a personal or delicate nature.
-- Skill in establishing and maintaining effective working relationships with employees, supervisors and the general public.
-- Skill in analyzing a given situation and in developing several alternative courses of action to include researching problems, procedures and policies.
-- Skill in working effectively on a wide variety of concerns in a hectic environment and in handling a heavy volume of work.
-- Working knowledge of at least two of the following areas: recruiting (to include technical and personnel and general employment practices); employee relations; benefits administration; or compensation administration (to include classification methods and performance evaluation systems).

ALSO DESIRED, BUT NOT REQUIRED:
-- Working knowledge of scientific, engineering, research or other technical concepts and jargon.
-- Working knowledge of conflict resolution techniques.
-- Familiarity with automated personnel systems, word processing, etc.

Nancy Lippincott, X8729
Debi Koepke, X8728

SCIENTIST I - #0315

HAO - (Program to be determined)
Exempt Range: 82, $27,104 - 40,656/year
DUTIES: Develops analytical and numerical techniques for the description of macroscopic and microscopic plasma properties and applies these techniques to studies involving theoretical modeling and observational interpretation of the solar interior, solar atmosphere, interplanetary medium, and related astrophysical systems.

REQUIRES:
-- Ph.D. with research experience in theoretical studies of magnetized plasmas

ALL DESIRED, BUT NOT REQUIRED:
-- Demonstrated skill in working effectively on a variety of solar and astrophysical problems

NOTE: This position will be available September 1, 1985. 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

SCIENTIST III OR SR. SCIENTIST - #0328

CSN - Mesoscale Interaction Group
Exempt Range: 84, $39,030 - 88,544/year (Level III)
85, $40,998 - 68,330/year (Sr. Level)
DUTIES: Conducts research using one or more of a spectrum of techniques to increase understanding of the structure and evolution of mesoscale convective systems, to include data analysis and conceptual modeling, and numerical modeling. Assists in the determination of long-term goals of the Convective Storms Division and its Mesoscale Interactions Group. May participate in the planning and execution of the STORM-Central and other field experiments. Collaborates with scientists at NCAR and elsewhere to further understanding of mesoscale systems. Publishes regularly in scientific journals. Participates in scientific meetings.

ADDITIONAL DUTIES (Sr. Level): Conducts original and independent individual/team research using one or more of a spectrum of techniques, including data analysis and conceptual modeling, and numerical modeling. Plays a major role in determining the long-term plans of the Convective Storms Division and its Mesoscale Interactions Group. May act as head of the Mesoscale Interactions Group. May take leadership role in planning and execution of the STORM-Central and other field experiments. Initiates collaboration with scientists at NCAR and elsewhere to further understanding of mesoscale systems. Participates vigorously in scientific meetings. Manages employees in ways consistent with UCAP policies and Affirmative Action Program.

RFUEREIS:
-- Nationally recognized record of independent or collaborative accomplishments as shown by publications
-- Demonstrated leadership in one or more subfields of the atmospheric sciences involved with mesoscale meteorology, individual convective clouds, or microphysics
-- Demonstrated skill in undertaking research leading to increased understanding of mesoscale convective systems
-- Sufficient breadth and depth of knowledge to initiate productive interactions with scientists of related but not necessarily congruent specialties.
-- Demonstrated skill in research techniques such as data analysis and conceptual modeling, and numerical modeling
ADDITIONAL REQUIRES (Sr. Level):
-- Expert scientific reputation established nationally and internationally as shown by publications in one or more subfields of the atmospheric sciences involved with mesoscale meteorology, individual convective clouds, or microphysics
-- Demonstrated breadth and depth of knowledge necessary to sustain the long-term scientific leadership of NCAR
-- Extensive record of exceptional research, leadership, and service
-- Skill at managing others, especially scientists
-- Demonstrated willingness and interest in undertaking research leading to increased understanding of mesoscale convective systems

ALSO DESIRED, BUT NOT REQUIRED:
-- Demonstrated skill in analysis and conceptual modeling or numerical modeling of mesoscale convective systems
-- Skill at understanding and exploiting data gathered from aircraft, ground-based and airborne Doppler radar, and other measurement systems to be used in the STORM-Central experiment
-- Demonstrated skill at planning and execution of field experiments
-- Willingness to participate in the planning, field, and data analysis phases of STORM-Central
-- Interest in the dynamics of hurricane bands and their impact on hurricane evolution

Debi Koepke, X8728

SECRETARY - #0326

AAP - Mesoscale Research Section
Non-Exempt Range: 26, $570.54 - 741.04/month (.50 FTE)

DUTIES: Types letters, memoranda, and reports for scientists. Types lengthy manuscripts involving scientific equations and symbols. Performs general secretarial duties, including filing, copying, and accurately relaying messages; provides support and back-up to the Administrative Assistant.

REQUIRES:
-- Thorough knowledge of English grammar and spelling
-- Demonstrated skill in editing all typewritten work
-- Typing at approximately 60 wpm
-- Skill in working with frequent interruptions.

ALSO DESIRED, BUT NOT REQUIRED:
-- Skill at using a word processor

Debi Koepke, X8728

SYSTEMS PROGRAMMER III - #0283

SCD - IOS System Software
Exempt Range: 62, $29,499 - 44,249/year

DUTIES: Performs system generation and maintains back-up systems for the IOS system. Provides service on a daily basis as a consultant in solving problems presented by users and Operators. Monitors IOS system behavior on a daily basis, discussing perceived problems with other IOS Group members and the IOS Group head and taking such action as is proper to insure efficient operation. Collaborates with Operations Department personnel in solving software related operational difficulties. Codes and implements necessary local modifications. Maintains IOS system logs. Collaborates with the Consulting Office on user problems. Gathers the accounting information produced by system operation and modifies the system to produce additional information as requested by SCD management and the Accounting Section of SCD. Implements software as necessary to prevent any interactive user from running large computer time programs to the detriment of the system's interactive response. Sets up system parameters so that certain systems or processor packages have restricted use, e.g., compilers/loaders are to be made available to in-house users only. Assists with the maintenance of RSCS and Uninet software on the IOS.

REQUIRES:
-- M.S. in computer science, mathematics, engineering or physical sciences or equivalent experience
-- Demonstrated skill in programming, particularly in the systems area, including a variety of hardware systems, which would typically be acquired through four to eight years of systems programming experience
-- Demonstrated skill with a VM operating system

Debi Koepke, X8728

SYSTEMS PROGRAMMER III - #0284

SCD - Communications
Exempt Range: 62, $29,499 - 44,249/year

DUTIES: Performs system generation and maintains back-up systems for the communications systems. Provides service on a daily basis as a consultant in solving problems presented by users and Operators. Monitors communications system behavior on a daily basis, discussing perceived problems with other Communications Group members and the Communications Group head and takes action as is proper to insure efficient operation. Collaborates with the Operations Department personnel in solving software related operational difficulties. Codes and implements necessary local modifications. Cooperates with the Consulting Office on user problems. Gathers the accounting information produced by system operation and modifies the system to produce additional information as requested by SCD management and the Accounting Section of SCD. Assists with the maintenance of RSCS and Uninet software on the IOS.
STUDENT ASSISTANT I - #0327

CSD - Microphysics Group
Flat Rate: $5.45/hour

DUTIES: Provides general research and experimental support in performing laboratory experiments and participating in field projects. Develops film, makes prints, and obtains measurements from the films. Collates, classifies and organizes data. Draws graphs and prepares figures from data. Performs calculations of various kinds. Assists in trouble-shooting of experimental electronic equipment to ensure that the data obtained is accurate. May perform miscellaneous other research related tasks as requested or required.

REQUIRES:
-- 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
-- Willingness to work up to 20 hours per week during periods school is in session and 40 hours per week during breaks
-- Willingness to work somewhat irregular hours, including evenings and weekends
-- Willingness and physical ability to work in a cold laboratory (to -20° C) and in severe environmental conditions in the field
-- Knowledge of mathematics such as would usually be acquired through one semester of college-level calculus
-- Willingness to pay close attention to accuracy and detail, appreciating the importance of keeping accurate, exact lab notes
-- Experience in data analysis and in the use of laboratory and photographic equipment
-- Some knowledge of basic electronics
-- Physical science major with interest or experience in experimental research

NOTE: This position is for a one year term, with the possibility of extension.

Nancy Lippincott, X8729

STUDENT ASSISTANT II - #0319

DIR - Acid Deposition Modeling Project
Flat Rate: $6.65/hour

DUTIES: Provides programming support for the development and use of computer codes for chemical kinetics studies. Runs numerical simulation models of both liquid and gas phase chemical systems. Maintains, operates and develops computer programs required for model runs on both the CRAY-I supercomputer and the VAX II/780 minicomputer. Develops data display programs with the NCAR graphics package. Modifies, creates and maintains general purpose programs on the VAX minicomputer for the analysis and display of model data. Transfers data back and forth between computers and physical tape.

REQUIRES:
-- 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
-- Willingness to work 20 hours per week during periods school is in session and full-time during breaks
-- Basic programming skills in FORTRAN sufficient to develop, debug and document programs
-- Willingness to pay close attention to detail, appreciating the importance of accuracy and exactitude
-- Background in chemical engineering, physical science or mathematics sufficient to understand data processing and analysis tasks
-- Interest in developing programming expertise on a microcomputer and on a supercomputer

ALSO DESIRED, BUT NOT REQUIRED:
-- Knowledge of CRAY I and VAX 11/780 systems

NOTE: This position is for a one year term, with the possibility of extension.

Nancy Lippincott, X8729

STUDENT ASSISTANT II - #0333

ATD - Research Aviation Facility/Data Management Group
Flat Rate: $6.65/hour

DUTIES: Assists in the batch processing of aircraft collected meteorological data using existing software. Provides programming support for the development of applications programs for use by RAF engineers and scientists to scan and analyze data, and works semi-independently to scan and analyze data. Modifies, creates, tests, and maintains, general purpose programs and utilities on the CRAY I, the IBM 4341, and possibly other ATN/RAF minicomputers. Interactively edits data files for batch CRAY I jobs. Stages tapes into the system. Copies tapes. Updates tape catalogues.

NOTE: This position is for a one year term, with the possibility of extension.

Nancy Lippincott, X8729
Checks and debugs batch data processing runs. Maintains files and records associated with data processing projects. Writes and debugs FORTRAN code that modifies existing software. Performs quality checks as needed on processed data. Writes, checks out, tests and maintains application software. Works independently on "special" data processing tasks.

REQUIRES:
-- Basic programming skills in FORTRAN sufficient to develop, debug and document programs
-- Willingness to pay close attention to detail, appreciating the importance of accuracy and exactitude
-- 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 of Community Colleges and Occupational Education
-- Willingness to work from 10 hours/week up to 20 hours/week during periods school is in session and full-time during breaks
-- Background in physical sciences, engineering, or computer science sufficient to understand data processing and analysis tasks
-- Willingness to perform routine tasks in a careful and efficient manner

ALSO DESIRED, BUT NOT REQUIRED:
-- Knowledge of the use of the CRAY I or IBM 4341 systems

Nancy Lippincott, X8729
CALENDAR NOTES

November 19th through November 26th

MONDAY, November 19th

- ATD Seminar -- Deep Wintertime Orographic Storms Over the Sierra Barrier -- John D. Marwitz, University of Wyoming
  3:30 p.m.
  RL-3 Conference Room 620

TUESDAY, November 20th

- AAP Seminar -- Diabatic Heating in an Unstably Stratified Mixed Layer: Case Study in an Aged, Diluted Urban Plume -- R. Pearson, Jr., Department of Atmospheric Science, Colorado State University
  3:30 p.m.
  NCAR Mesa Lab, Main Seminar Room

WEDNESDAY, November 21st

OPEN

THURSDAY, November 22nd

HAPPY THANKSGIVING

FRIDAY, November 23rd

HOLIDAY

MONDAY, November 26th

OPEN

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