



Nita Razo of the Information Office views the GARP Atlantic Tropical Experiment (GATE) exhibit in the Mesa Lab mezzanine, which was completed recently. Nita is responsible for keeping the various exhibits at the Mesa Lab stocked with informative handout materials. The GATE exhibit was designed by former staff writer Halka Chronic in consultation with the GATE Group. The captions were written by Halka and Diane Johnson of the Information Office. Howard Crosslen, John Basil, and other members of the Graphics Group supplied the art, and the painting (exclusive of art) was done by the Plant Maintenance section of the Planning and Design Group. The public areas are administered by the Information Office; exhibits are the joint responsibility of the Information Office, Communications Services, and Planning and Design.

This week in Staff Notes . . .

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ABSTRACT OF MANAGEMENT COMMITTEE* MEETING, JULY 22

Staff/Management Communication

In response to reports of inadequate downward communication within the organization, Executive Director John Firor again urged project leaders and others who attend the Management Committee meetings to share information from the meetings with their groups. In addition, summaries of the Management Committee meetings and Board of Trustees meetings will appear regularly in *Staff Notes* or as separate staff memos.

Scientific Briefing for Trustee Meeting

Firor asked the committee to suggest topics for scientific briefings during the UCAR Board of Trustees meeting to be held here August 15 and 16. One or more subjects are usually presented at each meeting to keep the trustees current with our research progress. The committee's choice was the color doppler radar display developed by FOF and now in use at the NHRE Grover headquarters. Atlas said the new capability has important implications for many areas of meteorology, especially tornado detection.

Firor also asked project leaders to submit any items for the August agenda that ought to be brought to the trustees' attention.

Project Reviews

Firor inquired whether project leaders were encountering any difficulties in preparing their oral presentations and written documentation due in September for NCAR's annual progress review and multiyear budget planning procedure. There was no discussion.

What Lies Beyond NHRE?

A subject raised informally and discussed only briefly was the question of how NCAR should plan to take up the slack on the expiration of NHRE's five-year research period supported by NSF's Research Applied to National Needs (RANN) division. RANN's tentative suggestion that we plan a follow-on program (such as "NHRE II") runs the risk of focusing attention on accommodating the available staff rather than on the most important scientific needs. Thus it would be preferable to integrate the regular NHRE staff back into other NCAR programs and to

*The Management Committee is made up of the executive director, division directors, and project leaders. It meets twice a month to discuss problems and policy issues and recommends courses of action to the executive director. Items may be placed on the agenda by either the executive director or by division directors or project leaders. The overall purpose of the committee is to allow NCAR leaders to raise and discuss issues they believe will further the interests of NCAR in general and various groups at NCAR.

plan other field programs as the problems dictate. Since a healthy balance of research does require on-going field projects, we may be able to absorb some of the slack through field projects now in planning and probably ready to begin when NHRE is over. The Severe Environmental Storms and Mesoscale Experiment and use of the Joint Meteorological Observation Facility for boundary layer and aerosol studies are two possibilities.

Renewal of Scientific Term Appointments

In order to preserve options for flexibility in redirecting certain areas of research, UCAR President/NCAR Director Francis Bretherton has placed a restriction on the automatic renewal of appointments or filling of vacancies. Bretherton envisions an occasional transferring of vacated positions among projects as new emphases in our program become desirable. Firor asked project leaders to evaluate the achievements of end-of-term incumbents carefully and resist renewal merely to avoid exposing a position. If a scientist's record does not warrant his or her reappointment, the project may nevertheless justify continued need for the position. To oversee the system, Firor will monitor the appointment-renewal authority of the division directors, and will request that end-of-term reviews evaluate both the incumbent and the position itself.

Computer Terminal Use

Jeanne Adams, attending the meeting for Stu Patterson, reported statistics for total computer jobs submitted during June and the first half of July by institutions equipped with remote terminals. For two of the four terminal users, jobs submitted during July already exceed the June totals. Figures for the two periods are: High Altitude Observatory, 1,889 and 1,413; Colorado State University, 42 and 86; Massachusetts Institute of Technology, 61 and 86; Scripps Institution of Oceanography, 7 and 4. Adams said that telephone line charges seem to be a hardship for some terminal users, but that experience will suggest cost-saving measures. (Convenience to university users, rather than economy per se, was the UCAR Board's original intent in asking NCAR to implement a remote terminal capability.) Adams said the Computing Facility hopes to preserve its reputation for personalized service despite the rapid growth of terminal usage.

NSF FY 1975 Budget

Firor reported that there is no news on how NSF's fiscal year 1975 budget is faring in Congress. In a memo to project leaders and other managers (June 26), Firor requested that all groups spend fiscal year 1975 funds at a rate of about 3% less than program plan levels until Congress completes action on NSF's appropriation bill this fall.

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TONI CHAPMAN ELECTED PRESIDENT OF BOULDER SECRETARIES' GROUP

Toni Chapman, who has been a secretary at NCAR since 1966, has been elected president of the Boulder Chapter of the National Secretaries Association (International)--NSA. She is now secretary to Dave Atlas, director of the National Hail Research Experiment (NHRE), and, before she joined NHRE in 1970, was secretary to Jack Hinkelman in the Research Aviation Facility. Toni has been an NSA member since 1967 and has also served as the Boulder chapter's vice-president and secretary. To attain more administrative and managerial training, she has been taking courses towards a B.A. at the University of Colorado School of Business since last fall, through NCAR's educational assistance program.



The NSA, a nonprofit, nonpartisan, and nonsectarian organization, is the world's largest association of persons engaged in the same profession. It comprises more than 30,000 professional secretaries in the United States, Canada, Puerto Rico, and other countries, who are dedicated to establishing and improving secretarial standards through a continuing program of education and professional development. The Boulder NSA chapter, established in 1956, belongs to the Colorado-Wyoming-Montana (CWM) division and has a current membership of 22.

Requirements for NSA membership are two years of work experience and current employment as a secretary. If you are interested in joining the Boulder chapter, call Membership Chairperson Vi McNew at 442-2462 (office) or 494-9216, or write to her at 65 S. 36th Street, Boulder.

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NCAR SECRETARIES INVITED TO TAKE COURSE

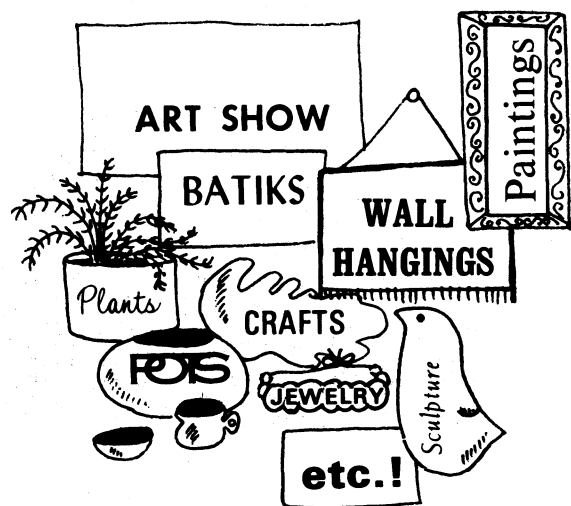
The Mountain States Employers Council in Denver is offering a one-day course for secretaries on August 12 entitled "Understanding and Influencing People--Key to Secretarial Effectiveness." Topics to be covered include: Environmental

Relationships for the Secretary, Understanding and Getting Along with Others, A Look "Inside" (Yourself), People-Oriented Office Problems, and Influencing People.

Arrangements should be made with your supervisor if you wish to take the course, which costs \$40.00. For further information call Jeri Miller, NCAR's Equal Employment Opportunities Coordinator, at ext. 561. Jeri is handling registration for the course and notes that this is a popular course that will no doubt fill up quickly.

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PLANNING CONTINUES FOR NCAR ARTS AND CRAFTS FAIR



The public is invited to an Arts and Crafts Fair sponsored by NCAR's Employee Activities Committee (EAC) on Saturday, August 10, from 10:00 a.m. to 4:00 p.m. (announced in *Staff Notes* no. 412, May 17, 1974). The fair will be held on the Mesa Lab tree plaza (or inside, if the weather is unfavorable). A number of NCAR staff and their families or friends have agreed to bring handmade items for display or sale. The exhibitors are listed below.

Doris Armstrong--needlepoint
Angel Baumhefner--dried flowers;
Christmas and Easter decorations
Ann Baynton--silk screen; weaving; drawing
John Bazil--graphic art
Sharon Blackmon--macrame
Carolyn Call--paintings
Korell Cayan--Kachina dolls
Karl Danninger--trophy jewelry
Bonnie Exner--pottery
Chris Batchelder--ceramics
Lois Gries--handpainted china

Midge Isaakson--ceramics
Barbara Johnson--necklaces; beads
Gail Jones--handmade clothing; decoupage
Margie Klemp--batik; fabric prints
Geoffrey LaPointe--weaving
Suzanne Swarztrauber--paintings
Allen Tafoya--metal arts
Joyce Takamine--mobiles
Dolly Thompson--pottery
Scott Wilson--wire sculpture and jewelry
Bill Zelt--handmade jewelry; house
plants

The EAC is grateful for the interest that has been expressed, and encourages other prospective exhibitors; about half a dozen more can be accommodated. Lacking

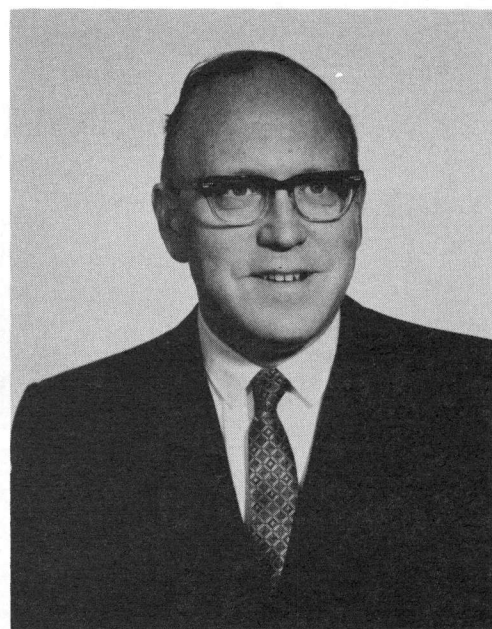
from the above list are leathercraft and baked goods (cookies, cakes, pies), both of which are favorites at arts and crafts fairs. For further details, call Tom Schlatter (ext. 679).

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LODGE BECOMES INDEPENDENT CONSULTANT

Jim Lodge left NCAR on June 30 and is now an independent consultant in atmospheric chemistry here in Boulder. He came to NCAR in August 1961 as a staff chemist with the Atmospheric Chemistry Group, and in recent years he was a program scientist with the Micro and TRACE Chemistry Groups.

Jim earned his B.S. in chemistry from the University of Illinois (1947) and his Ph.D. in chemistry from the University of Rochester (1951). His major research interests are atmospheric chemistry, microchemical analysis, cloud physics, and atmospheric electricity. Before coming to NCAR he spent six years as chief of the Chemical Research and Development Section, Laboratory of Engineering and Physical Sciences, Division of Air Pollution, U.S. Public Health Service.



He is a fellow of the American Association for the Advancement of Science and has held numerous positions with the American Chemical Society, the American Meteorological Society, and various government agencies; he has served as an affiliate professor for several universities. Jim is listed in *Who's Who* and *American Men of Science*, and has written over 100 journal articles in his field.

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JUNE ACCIDENT REPORT

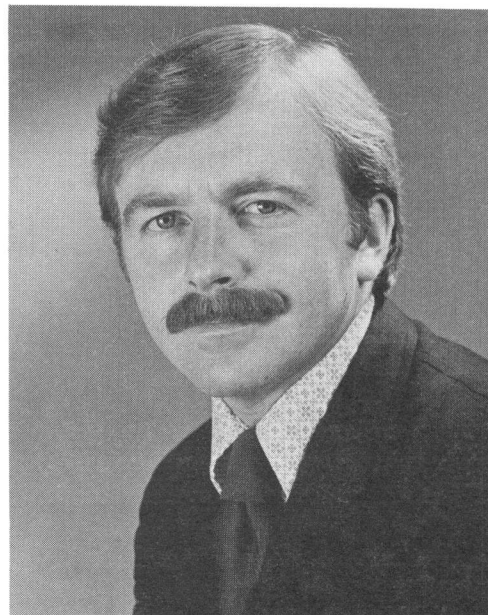
Accidents Reported	Accidents Requiring Medical Attention	Lost Time (days)
8	8	2½

Six of the eight injuries sustained were to feet and legs--bruises, punctures, and twists. The others involved a vehicle accident (no injury, fortunately) and a back injury that probably resulted from improper lifting.

LAHUE ACCEPTS ATLANTIC RICHFIELD JOB

Miles LaHue has accepted a position as Air Quality Coordinator for Atlantic Richfield in Denver, after working at NCAR since July 1964. He worked with the Turpene Photochemical Study here until 1966. For the next two years, he participated in the Panama Project, and from 1970 to 1974 he worked on the TRACE project.

Concerning his new job, Miles notes, "While I've been a lab researcher at NCAR, with Atlantic Richfield it will be a coordinating effort between their consultants and the environmental regulatory agencies." With respect to oil shale development, he adds, "I would urge people who are really concerned about oil shale development [which Atlantic Richfield and other oil companies are pursuing in Colorado] to keep in touch with their state politicians to make their feelings known and to ask them to take the necessary steps to exercise due caution."



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GRAPHICS: ASSIGNMENTS IN AND OUT

The Graphics Group executes artwork assignments for scientists on a first-come, first-served basis. *Staff Notes* regularly reports the status of the group's workload for the convenience of scientists planning their artwork submissions. Please use the weekly tally to plan ahead so that you will receive your artwork by the dates you require. Graphics support is provided without charge except for rush requests that require overtime work by the Graphics staff. Consult also with the Computing Facility to determine whether your routine artwork assignments can be produced by computer graphics.

As of Monday, July 22:

Pieces of artwork in: 145

Number of scientists served: 23

Pieces of artwork out last week: 101

Estimated starting date for new work: Friday, July 26

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DEPARTURES

Jennifer A. Frykman 7/19/74

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NEW STAFF MEMBERS

Noel E. Carr: Pilot with Research Aviation Facility at Jeffco, ext. 7852.

Michael H. Glantz: Postdoctoral fellow working with ASP, ML room 520, ext. 424.

Jean Irish Kelley: Support scientist working with GARP, (c/o Pat Jones) ML room 202, ext. 234.

Armando C. Mata: Custodian working with Administration, ML room 043, ext. 341.

Colleen A. Velie: Administrative secretary working with ATD, ML room 7, ext. 531.

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VISITORS

Mark Nelkin, Cornell University. July 18-August 2. ML room 517, ext. 407.
--ASP.

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JOB OPENINGS

As of July 24

NCAR is an equal opportunity employer. To assist us in meeting our affirmative action goals, women and minority applicants are encouraged to identify themselves as such. A copy of our Affirmative Action Program is available for review.

REGULAR (Full-time):

COMMUNICATIONS ENGINEER: To work in the development of communications systems for earth orbiting balloons. BS in Electrical Engineering and 3 years experience in the communications field. Exempt ranges 55-56. Anticipated minimum salary: \$11,425/year. Closing date for outside applications is July 31, 1974. THIS POSITION IS LOCATED IN PALESTINE, TEXAS.

HAIL SUPPRESSION ANALYST: To perform analyses of radar, meso-meteorological and precipitation data for the purpose of identifying physical and statistical effects resulting from hail suppression experiments. Ph.D. in Math or Statistics and 2 years experience in reduction and analysis of field research data. Anticipated minimum salary: \$15,210/year. Exempt range 58. Closing date for outside applications is July 31, 1974.

Ph.D. SCIENTIST: For the National Hail Research Experiment to perform analyses of the entire array of experimental data available from various NHRE observing systems with the aims of (1) synthesizing a complete model of the precipitation physics, airflow, and dynamics of a hailstorm, and (2) to seek physical evidence of the effects of artificial seeding. This position requires a Ph.D. in Meteorology and a minimum of three years experience in research closely related to hailstorm studies and strong familiarity and working ability with precipitation physics, storm dynamics, radar meteorology, and computer programming. Exempt range 59. Anticipated minimum salary: \$16,730/year. Closing date for outside applications is August 21, 1974.

RECEPTIONIST: For the High Altitude Observatory to operate the HAO switchboard, perform receptionist duties, non-technical typing, sort mail, maintain office supplies, handle seminar notices, etc. Six months PBX experience and one year typing experience. Non-exempt range 14. Anticipated minimum salary: \$440/month. Closing date for outside applications is July 31, 1974.

SECRETARY: For the Advanced Study Program. Job requires typing correspondence, handling travel arrangements, maintaining files, distributing mail, answering telephones, collecting and assembling information for division reports, and technical typing of scientific papers for the Chairman of ASP, permanent and visiting staff members. Previous secretarial experience and exceptional skills required. Non-exempt range 18. Anticipated minimum salary: \$640/month. Closing date for outside applications is August 7, 1974.

SECRETARY: For the Facilities Planning and Design group, to handle the office functions of the group, including receptionist, telephones, typing, filing, distributing mail, group appointments calendar, etc., as well as filling in for Plant Maintenance secretary when absent. Non-exempt range 16. Anticipated minimum salary: \$530/month. Closing date for outside applications is July 31, 1974.

SPECIAL ASSISTANT FOR UNIVERSITY RELATIONS: To assist and advise the President of UCAR in University-NCAR relations and policy questions, with responsibility for effective communications with faculty and administration of member universities, to stimulate and facilitate joint University-NCAR research projects, and provide liaison for the President with advisory committees and in assessing need for facilities. Required qualifications include: recognized research achievement in the atmospheric sciences and broad scientific interests, and full-time university faculty experience. Desired qualifications include: administrative experience, familiarity with government agency procedures, and success with cooperative research programs. This position is a 3 year term appointment. Exempt range 61. Anticipated minimum salary: \$20,200/year. Closing date for outside applications is September 30, 1974.

SUPPORT SCIENTIST: To participate in the design and development of numerical models of ocean circulation. Work will include the analysis and evaluation of computer experiments and requires 5 years programming of large numerical experiments on the general circulation of the ocean or atmosphere and an MS degree in Oceanography, Meteorology or Mathematics. Exempt range 58. Anticipated minimum salary: \$16,730/year. Closing date for outside applications is August 21, 1974.

REGULAR (Part-time):

CUSTODIAN: To clean and maintain the NCAR buildings, 20 hours/week. Starting salary: \$2.94/hour. Closing date for applications is August 7, 1974.

CASUAL:

STUDENT ASSISTANT: For chemistry laboratory to maintain chemical stock, perform routine chemical analyses, and to assist in general laboratory work. Prefer 2nd or 3rd year student with major or minor in chemistry. Salary determined by student schedule rates. Closing date for outside application is July 31, 1974.

Staff members and those on lay-off who wish to be considered for a position, should contact the Employment Administrator within two weeks after the job is first posted. If qualified, these persons will be given first consideration; if possible, the position will be filled from this group. After the two-week period, if no current or laid-off employee is selected to fill the position, persons from outside NCAR will be considered. Each salary will be determined according to the individual's qualifications. For more information, please contact the Personnel Office (Ext. 569 or 555).

Staff Notes information should be sent to Editor Lynne Mesirow (ext. 644) by 5:00 p.m. on Tuesday.

Calendar Notes

July 29 to August 5, 1974

MONDAY, July 29

- ASP/SSAPP Colloquium Lecture -- On the Ekman Layer in a Circular Vortex, Arnt Eliassen, University of Oslo, Norway

10:00 a.m.
Fleischmann Building
- AQM-Aerosol Project Seminar Series -- Mechanisms of Ice Nucleation, Charles A. Knight, AQM

10:30 a.m.
NCAR Mesa Laboratory, Seminar Room
- ASP/SSAPP Colloquium Special Seminar -- The Dynamics of Wave Induced Downslope Winds, Joseph Klemp, AAP

1:30 p.m.
Fleischmann Building
- AQM-Aerosol Project Seminar Series -- Secondary Nucleation, Joseph Estrin, Clarkson College of Technology, Potsdam, New York

3:30 p.m.
NCAR Mesa Laboratory, Seminar Room

TUESDAY, July 30

- ASP/SSAPP Colloquium Lecture -- On Certain Errors Occurring in Finite Difference Treatment of Advection, Arnt Eliassen, University of Oslo, Norway

10:00 a.m.
Fleischmann Building
- AQM-Aerosol Project Seminar Series -- Production of Fine Dust by Wind Erosion of Soil-Effect of Wind and Soil Texture, Dale Gillette, AQM

10:30 a.m.
NCAR Mesa Laboratory, Seminar Room
- Meeting -- Council for NCAR Women

12:15 p.m.
NCAR Mesa Laboratory, Chapman Room

TUESDAY, July 30 (continued)

- ASP/SSAPP Colloquium Special Seminar -- The Social Implications of Improved Mountain Windstorm Forecasts, William Bergen, University of Miami, Ohio

1:30 p.m.

Fleischmann Building

- AQM-Aerosol Project Seminar Series -- Heteromolecular Nucleation and its Atmospheric Application, D. Stauffer, Technische Universität, München, West Germany

3:30 p.m.

NCAR Mesa Laboratory, Seminar Room

WEDNESDAY, July 31

- AQM-Aerosol Project Seminar Series -- Similarity Solutions for a Condensation-Coagulation System, Ronald Drake, AQM

10:30 a.m.

NCAR Mesa Laboratory, Seminar Room

- ATD-Computing Facility Seminar -- Matrix Modification Methods for Large Linear Systems of Equations, Roland Sweet, ATD

2:00 p.m.

NCAR Mesa Laboratory, Seminar Room

- AQM-Aerosol Project Seminar Series -- A Multi-level Model of Tropospheric Aerosols, James Burgmeier, University of Maine

3:30 p.m.

NCAR Mesa Laboratory, Seminar Room

THURSDAY, August 1

- AQM-Aerosol Project Seminar Series -- Optical Properties of Aerosols, Gerald Grams, AAP

10:30 a.m.

NCAR Mesa Laboratory, Seminar Room

- HAO Colloquium -- Nonradial Oscillations of the Sun, Douglas Gough, University of Cambridge, England

11:00 a.m.

HAO Classroom 138

THURSDAY, August 1 (continued)

- ASP/SSAPP Colloquium Special Seminar -- Means by which the Planetary Boundary Layer Affects the Free Troposphere, James Deardorff, AAP

1:30 p.m.
Fleischmann Building

- AQM-Aerosol Project Seminar Series -- Optical Homodyning Techniques for Aerosol Measurements, Grayson Walker, Clark College, Atlanta, Georgia

3:30 p.m.
NCAR Mesa Laboratory, Seminar Room

FRIDAY, August 2

- AQM-Aerosol Project Seminar Series -- The Role of Radioactivity on Atmospheric Aerosol Formation and Residence Time, Edward Martell, AQM

10:30 a.m.
NCAR Mesa Laboratory, Seminar Room

- ATD-Computing Facility Seminar -- A Spline Package for Objective Analysis, David Fulker, ATD

2:00 p.m.
NCAR Mesa Laboratory, Seminar Room

- AQM-Aerosol Project Seminar Series -- Formation, Nature and Mobility of Ions of Atmospheric Importance, Volker Mohnen, State University of New York at Albany

3:30 p.m.
NCAR Mesa Laboratory, Seminar Room

MONDAY, August 5

- Open