

Staff Notes

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National Center for Atmospheric Research

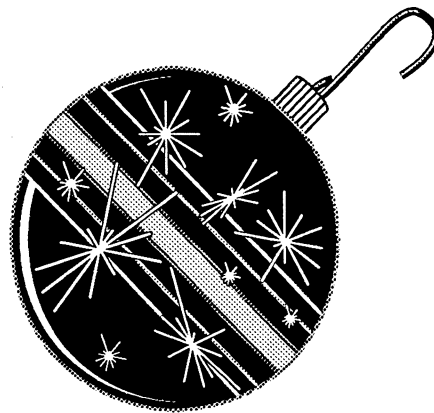
The 1992 Outstanding Performance Award Nominations

Each year NCAR recognizes some of its most talented and dedicated staff through Outstanding Performance Awards. Division directors made 16 nominations this year in four categories. The winners, chosen early this week by interdivisional committees, will receive cash awards at the announcement ceremony, to be held tomorrow afternoon, 11 December, at the NCAR holiday party. (See page 2 for details on the party.) This year, for the first time, all UCAR staff were eligible for the awards. Nominees are listed below.

Administrative Support

This honor goes to an individual or group for a single outstanding performance in research support or for a long history of support beyond the call of duty. Improving a management practice or skillfully handling an operational effort are two activities that qualify for nomination.

- Brigitte Baeuerle, international affairs coordinator of the TOGA COARE (Tropical Ocean-Global Atmosphere Program's Coupled Ocean/Atmosphere Response Experiment) International Project Office, for several months of extraordinary performance this summer and fall. Brigitte obtained international permissions for COARE research vessels and sounding operations. She also oversaw the complex installation of a number of instruments on Chinese ships.



- Deborah Henson, Patty Hill, Cheryl Jones, Carol Makowski, and Carol Park-Hill, all of the Research Applications Program (RAP), for their compilation and production of materials for the first two NCAR Aviation Weather Program reviews given for the Federal Aviation Administration (FAA). The team showed initiative, creativity, dedication, and expertise under severe time constraints, producing two highly professional and comprehensive review packages.

- Dennis Hunter, manager of Management Information Systems (MIS), for his efforts in getting the cafeteria debit system in place. Dennis coordinated many aspects of the project, including distribution of bar-coded identification cards, selection of hardware and software for the cash registers, and oversight of security and publicity.

Outstanding Publication

Nominees for this honor have published either results of original work or other contributions, such as books or review papers, that increase understanding of atmospheric science. Criteria for selection include importance of the publication topic, clarity of exposition, creativity, and originality. Nominated papers must have been published between 1 October 1987 and 30 September 1992; the five-year period allows for recognition of papers whose significance has become more evident with time.

- Grant Branstator, Climate and Global Dynamics Division (CGD), for two papers, "Low-Frequency Patterns Induced By Stationary Waves," *Journal of the Atmospheric Sciences* (JAS) 47, 629-648, and "The Maintenance of

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Low-Frequency Atmospheric Anomalies," *JAS* 49, 1924–1945. These papers pioneer a new technique of using a linearized version of the NCAR community climate model to explain low-frequency planetary waves or patterns, which create many of the anomalous long-lived weather patterns in the midlatitudes.

- Masaaki Takahashi and Byron Boville, CGD, for "A Three-Dimensional Simulation of the Equatorial Quasi-Biennial Oscillation," *JAS* 49, 1020–1035. This paper advanced the understanding of equatorial quasibiennial oscillation waves through three-dimensional modeling.

- Kevin Trenberth and Grant Branstator, CGD, for "Issues in Establishing Causes of the 1988 Drought over North America," *Journal of Climate* 5, 159–172. This paper ties together data and modeling studies of the causes of the 1988 drought and has received much attention in the scientific and public press.

- Richard Katz and Barbara Brown, Environmental and Societal Impacts Group, for "Extreme Events in a Changing Climate: Variability Is More Important than Averages,"

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Printed on recycled paper using soy-based ink.

Join the Holiday Party Tomorrow!



Friday, 11 December
3:00 p.m.–7:00 p.m.
Mesa Lab Lobby

- 3:00 p.m. Evenstar Choir, Niwot High School
- 3:30 p.m. Outstanding Performance Awards winners, announced by Peter Gilman
- 4:00 p.m. Music (Nickelodeon Entertainment) and refreshments
- 4:45 p.m. Holiday performances by NCAR staff—jazz, classical, Indonesian, and more

NCAR gift items will be on sale:
adult T-shirts \$8, children's T-shirts \$7, sweat shirts \$15,
pack of 10 note cards (either winter or summer scenes) \$4

Climatic Change 21, 289–302. This paper summarizes research conducted as part of a three-year project on extreme events and climate change, demonstrating how the statistical theory of extremes can be exploited in climate applications.

- Ralph Keeling and Stephen Shertz, Atmospheric Chemistry Division (ACD), for "Seasonal and Interannual Variations in Atmospheric Oxygen and Implications for the Global Carbon Cycle," *Nature* 358, 723–727. This paper reports measurements of changes in atmospheric oxygen using a new interferometric technique. Such measurements are extremely difficult since the observed variations are around 100,000 times smaller than the background concentration.

Technical Support Award

As with the Administrative Support award, this honor recognizes a team or individual for either a single superior performance or a history of noteworthy effort. Exceptional instrument maintenance or equipment fabrication are examples of achievement recognized in this category.

- Julie Haggerty, Amy Michaelis, Steve Carley, David Johnson, and Todd Edmands, Atmospheric Technology Division (ATD), for their efforts in the development of the Kuwait Data Archive. This team was expected to make observations from the 1991 Kuwait oil-fire expedition available within a year's time to

researchers from diverse organizations. In meeting this deadline, the team's extended work produced a database management system that expanded ATD's abilities to support users.

- Mark Bradford, Wayne Brazille (long-term visitor), Ron Murdock, Ken Scully, and Kendall Southwick, all of the UCAR Office of Field Project Support, for carrying out data management activities for the Stormscale Operational and Research Meteorology Program's Fronts Experiment Systems Test (STORM-FEST). Thanks to the team's dedication during and after the field program, an unprecedented amount of critical data were collected, unique forecasts and analyses were retrieved in real time, and preliminary composite data sets were distributed in record time.

- Gary Jensen, Scientific Computing Division (SCD), for originating the idea of a collaborative effort between NCAR and the Cray Computer Corporation at a point when the company's future was in jeopardy. Out of this idea, in return for testing the CRAY-3 Operating System, NCAR has received use of nearly 6,000 hours of idle time on a CRAY-2 in Colorado Springs. NCAR may also be testing a link between the CRAY-3 and a Thinking Machine Corporation CM-5 in 1993 as an outgrowth of this collaboration.

Technology Advancement Award

Designed to honor technical achievements in engineering, computer science, and applied science, this award recognizes major individual or group creations completed between 1 October 1991 and 30 September 1992. Criteria for nomination include impact on atmospheric science, innovation, and magnitude of effort.

- Brian Heckman, Dwight Owens, and Wendy Abshire, Cooperative Program for Operational Meteorology, Education, and Training (COMET), and James Wilson (RAP), for development of the first two COMET computer-based learning modules. Designed to train as many as 8,000 National Weather Service forecasters, the interactive modules are a radically new approach to training in physical science. The development team showed innovation and significant creativity—for example, using evaluation sessions with actual forecasters to overcome trainee apprehension.

- Don Middleton-Link (SCD), for his work in designing, acquiring, integrating, installing, testing, and supporting three video animation facilities in support of scientific visualization. Don created numerous software components so that the video systems could support imagery from a wide range of software packages. The resulting products have proven extremely valuable in allowing university and UCAR researchers to communicate research results to colleagues and the general public.

- Rick Shetter (ACD), for developing two actinometers to support the Mauna Loa Photochemistry Experiments (MLOPEX I and II) within the Global Tropospheric Chemistry Program. The instruments measure atmospheric photolysis rates of two pivotal atmospheric molecules, NO₂ and ozone. The more recent instrument, unique within the community, is an important tool for measuring the atmosphere's oxidation capacity and worked flawlessly in MLOPEX II despite incomplete testing.

- Hal Cole, Charlie Martin, Anne-Leslie Barrett, Terry Hock, Mike Spowart, and Michael Howard, all of ATD; and Warner Ecklund, John Wilson, and David Carter, of the National Oceanic and Atmospheric Administration's Aeronomy Laboratory, for developing, demonstrating, and deploying a network of integrated sounding systems. The network, which is at the heart of the TOGA COARE observing network, is an important new observing system that overcomes many of the limitations of earlier surface-based observing facilities.

- Andrew Heymsfield and Larry Milosheovich, Mesoscale and Microscale Meteorology Division (MMM), for the development of two new instruments that make determinations of cloud particle shapes and size distributions in place. Designed to collect data on the microphysical structure of cirrus clouds, these two innovative instruments—created with limited laboratory facility support and funding—have proven useful in analyzing other cloud types as well.

- Bob Barron, Bill Myers, John Caron, and Frank Hage, all of RAP, for the development of two outstanding weather displays as part of the FAA Aviation Weather Development Program. The regional display converts a large amount of data into three-dimensional displays and represents a quantum leap in temporal and spatial depiction of aviation weather. The three-dimensional terminal viewer combines weather products, satellite terrain imagery, and air traffic into a pioneering virtual-reality display that runs in real time. •

Sexual Harassment Awareness Programs Begin Next Week

All staff are encouraged to join Human Resources manager Edna Comedy and UCAR corporate attorney Bruce Sattler for the first of a series of UCAR/NCAR-sponsored sexual harassment awareness programs beginning 15 December at the Mesa Lab.

The series was instituted in response to the record national increase in complaints of gender-based civil rights violations since the beginning of 1992. It is designed to enlighten all employees who may innocently engage in unlawful behavior or who may be victims of sexual harassment. It will provide employees with a working legal definition of sexual harassment, illustrate the types of behaviors that can result in complaints and /or litigation, and articulate the steps by which employees can seek redress. The format includes a videotape and remarks from the two facilitators, followed by a question-and-answer period.

This program is among the first of a series of training programs recommended by the Committee on Institutional Equity (CIE) and endorsed by the Joint UCAR/NCAR Directors' Committee at their 20 November meeting. The content of these programs is regarded as so important by both committees that all staff are strongly urged to attend. Each of the five sessions will accommodate 75 employees. Other sessions will be scheduled in anticipation of the high demand for attendance. It is therefore imperative that employees contact Kristen Womer, Human Resources, ext. 8711, as soon as possible to register.

The location, date, and times of the programs are as follows:

Tuesday, 15 December	Mesa Lab Main Seminar Room	9:00-11:15 a.m.
Friday, 8 January	Foothills Lab Auditorium	9:00-11:15 a.m.
Thursday, 21 January	Mesa Lab Main Seminar Room	9:00-11:15 a.m.
Tuesday, 2 February	Mesa Lab Main Seminar Room	9:00-11:15 a.m.
Tuesday, 9 February	Foothills Lab Auditorium	2:30-4:45 p.m.

Delphi Question: UCARflex Changes

Question (21 October): I finally got around to reading the latest UCARflex bulletin (#1). Let me get this right: we're being told that rates are going up for those of us who participate in Option II, since (1) that's more expensive anyway and (2) only the "most highly paid" employees choose to participate. Really?

I might be interested in participating in some kind of HMO [health maintenance organization] if my wife could be included. Unfortunately, she can't because she's attending school well out of the service area. I'm sure NCAR or the health care provider wouldn't be willing to pay her air fare back here so she could be treated in the "service area."

Ah, but we should be comforted by the following: "Both Options I and IV provide treatment for either emergencies, accidents, or for the

sudden and unexpected onset of illness. In an emergency, those covered by any option should just go to the nearest emergency room. . . . For those participants in Option I or IV who are out of the service area, initial treatment for accidents or illness is covered, *provided it was not for a situation that could have reasonably been anticipated and treated within the service area.* [Emphasis mine (questioner's). Who decides?] *Follow-up care out of the service area is technically not covered. . . .* "Technically not covered"? This sounds like NCAR can make exceptions if someone thinks it's appropriate. I doubt this.

Because my wife is attending school out of state, she would essentially NOT be covered for anything but emergencies under anything but Option II. Thus, if I want my wife to benefit from my health care coverage, I'm forced to buy the "rich man's"

health care option. While I realized this when all of the much-flaunted UCARflex was announced, I'm a bit miffed that part of the rationale was "these people are rich anyway; they can afford it." I'm not rich. I certainly don't make more than \$50,000 a year. Why must I be penalized because my wife may have the audacity to need medical care "out-of-service area," complete with follow-ups?

But now for the real question: Why wasn't the UCARflex Employee Advisory Committee convened to examine these major topics and changes?

Answer (17 November): I would like to clarify some of the issues raised by the questioner before answering the basic question.

(1) It was never the intention to suggest that *only* the most highly paid

employees choose to participate in Option II; rather, that *more* of them do. The average salaries cited illustrate that point, but this does not suggest that either the higher- or lower-paid employees participate exclusively in any plan. That really wasn't a big issue in the decision anyway, as the questioner inferred. The major issue in pricing the UCARflex options was related to UCAR's plan experience; it was further exacerbated by a host of other issues as pointed out in UCARflex Bulletin #1, including UCARflex committee feedback from two years ago, demographic differences between participants in our plan options, and how these decisions have been handled in other institutions. The plan demographics were a very small part of the discussions at both the Administrators' and Directors' Committees, and was only brought up in the Administrators' Committee meeting in response to a concern about whether the pricing structure would penalize lower-paid employees.

(2) One of UCAR's HMO options does provide UCAR employees and dependents coverage in states other than Colorado. Kaiser operates in 15 states as well as the District of Columbia. UCAR currently has 12 out-of-state participants in Kaiser; perhaps this would work for the questioner.

(3) The issue of out-of-service-area treatment was mentioned in UCARflex Bulletin #1 to ensure that employees with dependents out of the service area were informed about how treatment is handled. The decision about whether a situation requiring medical treatment could have been reasonably anticipated and treated within the service area rests with the insurance company involved. The issue is reasonableness, which, though subjective, is usually pretty easy to determine. If a participant contracted strep throat while away at college, it would not have been possible to have reasonably anticipated the onset of that infection. Therefore, it would be covered. An ongoing, long-term

illness and treatment program, however, would not be covered if treated out of the service area.

(4) On the issue of follow-up care out of the service area, UCAR does not have the ability to make exceptions, and follow-up care technically isn't covered under either of the managed-care options. However, we were told by a Kaiser representative in August during the TOGA COARE insurance briefing that there is a possible way to get around this. If a physician produces a bill for all treatment and includes the follow-up care charges in the initial treatment without separately identifying them, the follow-up treatment would be covered. So it is possible that follow-up care might be paid in Options I and IV, depending on how it is billed—and that is up to the physician, not UCAR or the insurance company involved.

(5) I am sure that there are many valid reasons why employees choose Option II, including having a dependent in college out of state. For some employees, though, that kind of lifestyle choice is not an option. We all make lifestyle choices and there are consequences and costs involved. The type of health care coverage needed by an employee in this situation may cost more than that needed by another employee in different circumstances. The philosophy on which the pricing decision was based is that those who are willing to live within the confines of managed-care products should share in the cost savings of their decision, rather than pay more to keep the costs lower for those who, for whatever reason, make the more expensive choices.

(6) The UCARflex Employee Advisory Committee is not a standing committee at UCAR. It was an ad hoc committee that met in 1989 and 1990 to provide input on the design of our health care plans. While that committee considered the issue of pricing during both years, the decision ultimately rested with the senior

management of UCAR/NCAR. The last time the UCARflex Employee Advisory Committee met, there was extensive discussion on pricing of the plans. A consensus was never reached, however, so they left it up to the directors, without a specific recommendation. At the time, the directors could have made the decision to price the plans separately and would have done so with current employee feedback, vague as it was. Instead, they left the plans priced the same, waiting to see long-range trends. In fact, they examined the pricing issue again last year, without a new UCARflex Employee Advisory Committee looking at that issue, and they again left the plans priced the same, pending resolution of concerns about the impact of retirees on Option II. As mentioned in the UCARflex Bulletin #1, this issue was resolved this year by splitting out retiree claims and finding they were no worse than employee claims in Option III.

This year, like last year, we were not making changes to the benefits plan design but just making the same pricing decision that we have looked at every year since the inception of UCARflex. The UCARflex Employee Advisory Committee would have been convened had we been anticipating major plan design changes as was true in 1989 and 1990. Recommendations that Human Resources staff take to the Directors' Committee almost always go through the Administrators' Committee for the purpose of getting staff feedback as well as the administrators' perspective. The pricing of health care plans is an emotionally charged issue—making it difficult for some employees to take a balanced viewpoint. Ultimately, management must make these kinds of tough decisions, and that is the role of the Directors' Committee and senior management.

Mark Weaver
UCAR compensation and benefits
manager

Announcements

Bus Pass Program Approved for 1993

The Transportation Alternatives Program is pleased to announce that the bus pass program will be continued for 1993. The new stickers will be arriving sometime in December, and will be distributed to all employees and visitors who are currently enrolled in the program. When you receive your 1993 sticker, please attach it immediately to your ID card. TAP will not be able to replace stickers that are misplaced, so this is very important. RTD will honor the 1992 stickers only through 31 December (no grace period this year!)

If you do not have a bus pass, you can obtain one beginning in January by going to the FL reception desk on Thursdays between 3:00 and 4:00 p.m. or on Fridays from 8:30 to 9:30 a.m. Be sure to take your NCAR ID with you when you go. If you have any questions, contact Chris Ennis (ML, ext. 1469).

Need a Jump? Security Can Help

The security staff at the Mesa Lab reception desk have jumper cables available. They cannot provide a jump but will loan the cables on signature to staff members at the Mesa Lab or forward them to staff at the Foothills Lab. For more details, call Security, ext. 1140.

Departures

Jane Burrows	20 November
Richard Steinolfson	27 November

Foothills Lab Staff Shop to Open

The centralized staff shop at Foothills Lab is ready to open in FL1 room 1064. Staff who would like to use the facility must qualify by having the appropriate safety and use training.

A one-day safety class will be held Thursday, 17 December, from 8:30 a.m. to 4:30 p.m. in the new shop. Attendance at this class will satisfy the safety requirement. Call Ginger Hein at ext. 8555 to register for the safety course. Both the safety and use training requirements also can be met by attending a regular vocational-education machine shop course. Call Page Baptist, ext. 8785, or Paul Johnson, ext. 8780, if you have further questions about staff shop use or qualification.

New Publications

The publications below are available from the Information and Education Outreach Program, ext. 8600.

A User's Guide to the Penn State/NCAR Mesoscale Modeling System, by David Gill; NCAR Technical Note No. 381; October 1992.

Real-Time Forecasts for WISP-91 Using the Penn State/NCAR Mesoscale Model, by Philip Haagenson, David Gill, and Ying-Hwa Kuo; NCAR Technical Note No. 380; October 1992.

What's Cooking in the Cafeteria?

Monday, 14 December

Chicken Gumbo Soup
Wrangler Beef Sandwich and El Paso Beans
Chicken Salad Pita with French Fries
Pasta Primavera and Whole Grain Roll

Tuesday, 15 December

Green Chile
Beefeater Sandwich and Fried Veggies
Veggie Hero
Chicken Enchiladas with Fideo and Anasazi Beans

Wednesday, 16 December

Vegetable Barley Soup
Chicken Breast, Cheese, and Mushroom Sandwich with Spinach Salad
Tuna Melt/Fresh Veggies
Baked Pork Chop and Gravy, Stuffing, and Winter Squash

Thursday, 17 December

Swiss Lentil Soup
Chicken Cordon Bleu
Pizza
Spaghetti/Marinara Sauce (vegetarian or meat), Garlic Bread, and Tossed Salad

Friday, 18 December

Navy Bean
Smoked Turkey and Swiss Croissant Tacos
Fish Platter, Hush Puppies, and Cole Slaw

Treats for Children's Holiday Party Don't Have To Be Homemade

If your children are coming to the NCAR children's holiday party, please bring some treats to share with everyone. Both store-bought and homemade cookies, munchies, and the like are welcome. If you have questions, contact Susan Smith, ext. 1226, e-mail sgs@ncar.ucar.edu.

Temporary Agencies Approved by UCAR Human Resources

The following list includes temporary agencies who have met subcontractor requirements. These requirements include our having a copy of the subcontractor's Affirmative Action plan and a signed affidavit stating that the Immigration Reform and Control Act (IRCA) requirements are being met. Federal law requires that we have these materials on file before contracting with an agency. If you have questions or need further information, please contact Kristen Womer in Human Resources, ext. 8711.

Adia Personnel Services
2955 Valmont, Suite 100
Boulder CO 80301
Tel. 442-2420

Aorist Enterprises, Inc.
12600 W. Colfax #B340
Lakewood CO 80215
Tel. 239-8833

Express Temporary Services, Inc.
2741 Mapleton
Boulder CO 80304
Tel. 443-7750

L&M Technologies
445 Union Blvd., Suite 238
Lakewood CO 80228
Tel. 989-0604

Manpower, Inc.
3005 Center Green Drive, Suite 215
Boulder CO 80301
Tel. 444-0640

Olsten of Boulder
1790 30th
Boulder CO 80301
Tel. 938-1718

Interim Personnel
300 Pearl, Suite 200
Boulder CO 80301
Tel. 442-8677

Western Temporary Services, Inc.
3035 47th Street, Suite C-1
Boulder CO 80301
Tel. 444-5982

Job Shop Agencies

Johnson Engineering Corporation
3055 Center Green Drive
Boulder CO 80301-5406
Tel. 449-8152

Nesco Design Company (formerly
Lehigh Design)
1726 Cole Blvd., Suite 100
Golden CO 80401
Tel. 279-9296

TAD Technical Services Corporation
350 Indiana Street, Suite 516
Golden, CO 80401
Tel. 278-0990

Visitors

Brandenburg, Axel. NORDITA, Copenhagen, Denmark. Interest: Explaining the solar dynamo and differential rotation. 1 December 1992–30 November 1993. FL2 room 3054, ext. 1586.
—John Firor, ASP

Emmart, Carter. NASA Ames Research Center. Interest: Graphics visualizations of global climate models. 11–16 December. ML room 150C, ext. 1624.
—Starley Thompson, CGD

Friedlingstein, Pierre. Free University of Brussels, Belgium. Interest: Carbon-cycle modeling. 23 January–21 February 1993. ML room 380, ext. 1434.
—Guy Brasseur, ACD

Shun, Chi-Ming. Royal Observatory of Hong Kong. Interest: Data analysis and numerical modeling. 30 November 1992–8 January 1993. FL3 room 3071, ext. 8914.
—Y. William Kuo, MMM

Tallamraju, Raja. Boulder, Colorado. Interest: Atmospheric chemical modeling. 1 February 1992–31 January 1993. ML trailer, ext. 1865.
—Alex Guenther, ACD

Library News

10 - 17 December 1992

The following new acquisitions are now on display at the Foothills Library through the dates listed above. The following week, they will be displayed at the Mesa Library. NCAR/UCAR staff may reserve items by 1) filling out a reserve card, or 2) checking the item(s) of interest below and sending this list to the Mesa Library (Be sure to include your name, location, and extension), or 3) searching for the title on NCAR Online Library Access (NOLA), choosing the request function, and supplying a UCAR employee ID number. After the two week display period, materials are mailed to requesters. Reference materials do not circulate.

New Books

Astronomy

Annual Review of Astronomy and Astrophysics. Goldberg, L, editor, Annual Review, 1992.
QB1 A2844 Copy 1 & 2 in FL.

Transactions of the General Assembly. University Press, 1991.
QB1 I6 v. 21B in FL.

Proceedings of the First SOLTIP Symposium. Fischer, S, editor, Astronomical Institute of the Czechoslovak Academy of Sciences, 1991.
QB520 S68 1991 v. 1 & 2 in FL.

Directories

Encyclopedia of Associations. Gale Research Company, 1993.
AS22 E5 1993 v. 1, part 1 & 2 in ML-REF.

The Old Farmer's Almanack. Thomas, R B, Yankee, Inc., 1993.
AY81 F3O6 1993 Copy 1 in ML-REF. Copy 2 in FL-REF.

The National Directory of Addresses and Telephone Numbers. Bantam Books, 1993.
E154.5 N37 1993 in ML-REF.

Statistical Abstract of the United States. Bureau of Statistics, Treasury Department, 1992.
HA202 S65 1992 in ML-REF.

Federal Yellow Book. Washington Monitor, Inc., 1992.
JK6 F45 1992, Fall in ML-REF.

The HEP ... Higher Education Directory. Higher Education Publications, 1993.
L901 E34 1993 in ML-REF.

Peterson's Annual Guides to Graduate Study. Hegener, K C, editor, Peterson's Guides, Inc., 1993.
L901 P485 1993 Book 4 & 5 in ML-REF.

American Universities and Colleges. Marsh, C S, editor, American Council on Education, 1992.
LA226 A65 1992 in ML-REF.

Geography, Maps

Antarctic Geological Map Series. Kokuritsu, K K, National Institute of Polar Research, Tokyo, 1992.
G9802 L8C5 svar.K6 Sheet 32 in ML-MAPROOM.

Mathematics, Computer Science

Proceedings ... Computer Software & Applications Conference (COMPSAC). IEEE Computer Society Press, 1992.
QA76.6 C6295 1992 in ML.

Inside Macintosh. Apple Computer, Inc., Addison-Wesley, 1992.
QA76.8 M3I569 1992 v. 1-3 in FL.

Physics

Non-LTE Scattering Resonance Polarization in Solar Spectral Lines. Sadiba, G J, University of Sydney, 1986.
QC455 S36 1986 in FL.

New Reports

CRRESRAD Documentation. Kerns, K J, Phillips Laboratory, Hanscom Air Force Base, MA, 1992.
27899.

Refinement and Testing of the Radiative Transfer Parameterization in the PL Global Spectral Model. Schattel, J L, Phillips Laboratory, Hanscom Air Force Base, MA, 1992.
27900.

A Scintillation Experiment Over a Forest. Kohsiek, W, Koninklijk Nederlands Meteorologisch Instituut, 1992.
27910.

Shipboard Acoustic Doppler Current Profiler Data Collected During the Subtropical Atlantic Climate Studies (STACS) Project (1989-1990). Wilson, W D, National Technical Information Service, Springfield, VA, 1992.
27913.

Stratospheric Analyses Provided by the U.K. Meteorological Office. Bailey, M J, Hadley Centre for Climate Prediction and Research, 1992.
27912.

A Surface Pressure Altitude Prediction Model. Avara, E P, U. S. Army Laboratory Command, White Sands Missile Range, NM, 1992.
27897.

Tropical Cyclones in 1990. Royal Observatory, Hong Kong, 1990.
27893.

Update on the NWS Modernization: Data Issues for Universities. Miller, L, Unidata Program Center, Boulder, CO, 1992.
27895.

*To obtain copies of these technical reports please contact the publisher. For NCAR publications contact Information and Education Outreach Program at 497-8600. For UCAR publications contact the issuing UCAR office.

Recommendation for Library Purchase

Title: _____

Author: _____ Publisher: _____ Date: _____

For: Mesa _____ FL _____ RAF _____ (please check one)

Name: _____

**EMPLOYMENT PROCESS
PLEASE READ!**

APPLYING FOR JOBS AT UCAR (including the University Corporation for Atmospheric Research and the National Center for Atmospheric Research): You may call our 24-hour jobline, 497-8707, for information about UCAR positions. Please follow this checklist to ensure that you are considered for positions for which you feel qualified:

- (1) Submit a separate application and/or resume for each position,
- (2) Indicate the job number and position title on your application materials, and
- (3) Hand carry or mail your application and/or resume to Human Resources by the closing date posted. Applications and/or resumes submitted by facsimile (fax machine) will not be accepted.

NOTIFICATION OF APPLICATION STATUS: Each applicant will receive an acknowledgement letter. After that, you will be contacted ONLY if you are chosen to be interviewed.

MORE INFORMATION ON SPECIFIC OPENINGS: You may obtain copies of previous "Job Openings" ads at the UCAR Human Resources Office, located at 3450 Mitchell Lane, Boulder.

UCAR EMPLOYEE APPLICATIONS: If you are a UCAR employee and wish to be considered for any of the positions listed, please complete an employee application (available from Human Resources, x8713), attach a resume, and return it to Human Resources, FL2.

NOTE TO UCAR STAFF: Requests for Staff must be received in the Human Resources Office no later than noon Monday in order for the job to be posted in the following Thursday's Staff Notes.

The University Corporation for Atmospheric Research has a strong commitment to the principle of diversity in all areas. In that spirit, we are interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities, veterans, and disabled individuals.

PROJECT ENGINEER - #1727

PLEASE NOTE: All applications for this position will be accepted until 5:00 p.m. on December 31, 1992.

ACD - HIRDLS

Exempt Range: 61, \$4,113 - \$6,170/mo

DUTIES INCLUDE: Provides input to the HIRDLS instruments' conceptual design and specification of subsystems. Evaluates vendor component designs and hardware. Generates conceptual designs and specifications for the Scanner, Cooler, and Detector Dewar cooling system. Integrates the designs of the Optical and Thermal Subsystems. Provides information to the TCG (Technical Coordination Group) on Scanner and Cooler interface issues. Evaluates subcontractor detail designs for the Scanner, Cooler, and Thermal Subsystems. Develops optical line-of-sight test methods. During instrument test and calibration, the Project Engineer will work with the Principal Investigators, System Engineer, and Calibration Scientists to develop appropriate methods for testing and calibrating the optical subsystem.

The project Engineer is assigned full time to the HIRDLS Program and will report to the HIRDLS Technical Manager.

REQUIREMENTS INCLUDE:

- B.S. in engineering or physics OR the equivalent combination of education and experience
- 10 years' experience in component design and testing of infrared space instrument subsystems including optics, thermal, scanners, and precision mechanisms
- Demonstrated skill with the use of Stirling Cycle coolers to cool infrared detectors and optical elements
- Demonstrated skill in the design and test of precision optical scanning systems
- Demonstrated skill with subsystem integration of precision pointing infrared optical instruments

Searl Brier

ADMINISTRATIVE SECRETARY - #1725

PLEASE NOTE: Applications must be received no later than 5:00 p.m. on December 22, 1992.

DIR - Project LEARN

Non-Exempt Range: 28, \$1,813 - 2,354/mo

DUTIES INCLUDE: Provides advanced secretarial support and coordination of various administrative activities and logistics for Project LEARN (Laboratory Experience in Atmospheric Research at NCAR). Organizes all logistics and makes travel arrangements for scientists and teachers attending seminars, workshops, and meetings. Composes memoranda, letters and correspondence for own or others' signature. Prepares typewritten drafts and final copy of correspondence, reports, scientific manuscripts, and administrative forms and documents that may require using complex computer communication interfaces. Proofreads and edits draft and final copy of documents requiring knowledge of publication standards, guidelines, and administrative formats. Compiles information and assists in the development of administrative and management reports. Monitors budget status reports and administrative records. Maintains confidential files and documents. Maintains knowledge of organizational policies and procedures and answers or directs related questions. Distributes reports and other materials. Records and distributes minutes of meetings.

REQUIREMENTS INCLUDE:

- Advanced knowledge of office procedures
- Advanced knowledge of travel arrangements and procedures
- Advanced skill in typing technical, administrative, and complex documents
- Skill in oral and in written communications
- Skill in using word processing and computer equipment
- Skill in setting priorities for workload
- Skill in proofreading and editing complex materials for grammar, spelling, and punctuation
- Skill in identifying information sources for related problems
- Skill in using good judgment and discretion in handling confidential materials

UCAR/NCAR is an equal opportunity/affirmative action employer.

Mail resumes to:
P.O. Box 3000
Boulder, Colorado 80307

Pick up applications at:
3450 Mitchell Lane
Boulder, Colorado 80301

Job Line: (303) 497-8707
Human Resources: (303) 497-8713

- Skill in maintaining various administrative records and processes such as budget expenditure reports

PLEASE NOTE: This is a term position until January 1995.

BJ Andersen

SENIOR TECHNICAL MANAGER, HIRDLS - #1677

PLEASE NOTE: This position has been reopened. Applications for this position will be accepted until 5:00 p.m. on December 31, 1992.

ACD - High Resolution Dynamics Limb Sounder (HIRDLS)

Exempt Range: 63, \$4,753 - \$7,130/mo

DUTIES INCLUDE: Responsible for planning and coordinating the development of the HIRDLS instrument. Reports to the HIRDLS Program Manager and works closely with the lead System Engineer, located at Oxford University, to define the technical tasks required to specify, design, fabricate, integrate, and test the instrument. The Senior Technical Manager plans these tasks with the responsible organization and coordinates with the HIRDLS Program Administrator to generate the program schedule. Responsible for implementing the decisions of the HIRDLS System Engineer who is the ultimate technical authority on the program and focuses the efforts of the system engineering team to insure that the Work Packages (developed by the System Engineer) assigned to different organizations are adequately defined and released in a timely manner.

REQUIREMENTS INCLUDE:

- M.S. in engineering or physics or the equivalent combination of education and experience
- Demonstrated skill, with 10 years experience, in a broad range of technical disciplines applying to electro-optical sensors
- Demonstrated skill, with 10 years experience, as an engineer or manager of a NASA or DoD space instrument program
- Demonstrated skill in directing the efforts of a small team of engineers and scientists
- Demonstrated facilitation skills to manage a project with international participants utilizing different approaches to task completion
- Demonstrated skill with techniques used to plan and control complex projects
- Willingness to travel one-third of the time with extended periods of time in the UK

Searl Brier

ADDITIONAL POSITIONS

ASSOCIATE SCIENTIST III - #1720

PLEASE NOTE: Applications for this position will be accepted until 5:00 p.m. on December 23, 1992.

RAP - Demonstration Facility

Exempt Range: 59, \$3,560 - \$5,340/mo

First published in "Job Openings" on November 19, 1992

SCIENTIST I - #1715

PLEASE NOTE: Applications for this position will be accepted until 5:00 p.m. on December 31, 1992.

MMM - Convective Meteorological Section

Exempt Range: 58, \$3,313 - \$4,970/mo

First published in "Job Openings" on November 12, 1992.

ASSOCIATE SCIENTIST II - #1703

PLEASE NOTE: The closing date has been extended. Applications for this position will be accepted until 5:00 p.m. on December 18, 1992.

UCAR - Cooperative Program for Operational Meteorology, Education and Training (COMET)

Exempt Range: 56, \$2,867 - 4,300/mo

First published in "Job Openings" on October 15, 1992

*Asterisked positions are appearing in "Job Openings" for the first time.

Calendar

14 December through 3 January 1992

WEEK OF 14 - 20 DECEMBER

Wednesday, 16 December

Monday, 14 December

- SCDUG Meeting -- *Report by Division Representatives Regarding Interest in VHS Training Tapes - Supercomputing '92 (held November 16-20 in Minneapolis) - Upcoming Supercomputing Conferences*

1:30 p.m.
NCAR Mesa Lab
Damon Room

Tuesday, 15 December

- CGD Seminar -- *Coupling Chemistry and Transport in the Middle Atmosphere Version of CCM2* -- Philip Rasch, NCAR Climate Modeling Section, Boulder, CO

3:30 p.m.
NCAR Mesa Lab
Main Seminar Room

Thursday, 17 December

- MMM Seminar -- *A Diabatically Driven Mesoscale Vortex in the Lee of The Tibetan Plateau* -- Wei Wang, MMM Long Term Visitor, Pennsylvania State University

3:30 p.m.
NCAR Foothills Lab 2
Room 1022

WEEK OF 21-27 DECEMBER

Thursday, 24 December

Holiday

Friday, 25 December

Holiday

WEEK OF 28 DEC -3 JAN

Friday, 1 January

Holiday

Calendar announcements may be mailed to Liz Kriete at FL2. Tuesday 5:00 p.m. is the deadline for items to be included.