Happy New Year
ANNOUNCEMENTS

BOULDER SOLAR ENERGY SOCIETY MEETING

The Boulder Solar Energy Society will meet on Tuesday, 5 January, at 7:30 p.m. The meeting will be at the Department of Commerce Building, 325 Broadway, in room 1107. The speaker will be Pam McFadden, a local architect who will discuss earth-sheltered buildings. All NCAR staff members and visitors are invited to attend.

SKI CLUB NEWS

The Copper Mountain day ski trip has been re-scheduled for Thursday, 14 January. Round-trip bus fare is $7; adult lift tickets (for ages 13 and over) cost $17 (regularly $18) if purchased at the time of reservation. Those who wish to go are encouraged to purchase lift tickets with their bus reservations; this will also eliminate standing in ticket lines at the ski area. Children's lift tickets are $8 and may also be pre-purchased. All unaccompanied minors (aged 18 and under) must have a release form signed by their parents. Registration is now under way. Send checks (total of $24 for bus and adult discount lift tickets; or $7 for bus fare alone) with your ski club card number to Doug Bradshaw, Shipping and Receiving. Call Doug at ext. 318 for additional information.

BOULDER DINNER THEATRE

The Employee Activities Committee (EAC) has reserved a section of choice seats for the Boulder Dinner Theatre's production of Mame on the evening of Wednesday, 27 January. The theater's doors open at 6:30 p.m. and the show begins at 8:00 p.m. The EAC ticket price, which includes dinner, tax, and tip, is $13.45. This is well below the current price for individual tickets, and is the last show at the 1981 price. The deadline for reserving tickets through the EAC is Wednesday, 20 January. Please call Patti Zinn on ext. 270 for reservations.

(Cover photo by Robert Bumpas.)

PHONE AND ROOM CHANGES

<table>
<thead>
<tr>
<th>Ext.</th>
<th>ML Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darlene Atwood</td>
<td>120E</td>
</tr>
<tr>
<td>Mary Bartels</td>
<td>120</td>
</tr>
<tr>
<td>Barbara Bateman</td>
<td>44D</td>
</tr>
<tr>
<td>Phylecia Brandley</td>
<td>48A</td>
</tr>
<tr>
<td>Betsey Chen</td>
<td>51C</td>
</tr>
<tr>
<td>Astrik Deirmendjian</td>
<td>692 26C</td>
</tr>
<tr>
<td>Karen Friedman</td>
<td>51B</td>
</tr>
<tr>
<td>Sandra Fuller</td>
<td>44F</td>
</tr>
<tr>
<td>Marlene Furmanek</td>
<td>536 29</td>
</tr>
<tr>
<td>Louis Jones</td>
<td>48D</td>
</tr>
<tr>
<td>David Kitts</td>
<td>44B</td>
</tr>
<tr>
<td>Walter Macintyre</td>
<td>120B</td>
</tr>
<tr>
<td>Robert Mitchell</td>
<td>44A</td>
</tr>
<tr>
<td>Jamia Oliver</td>
<td>552 44E</td>
</tr>
<tr>
<td>Eugene Schumacher</td>
<td>44C</td>
</tr>
</tbody>
</table>

CAFETERIA NEWS

The "special special" for next Wednesday, 6 January, will be chicken fried steak with cream gravy, potatoes, a vegetable, cherry pie, and coffee or tea, all for $2.

The breakfast special for next week will be cheese omelette and toast for $1.10.

The winner of this week's free luncheon is:

F. TIME

VISITOR

Hsiao-Ming Hsu, University of Wisconsin. Field of interest: Mesoscale disturbances. 21 December - 18 January 1982. Computing carrels, dial "0" for paging service.

--Scientific Computing Division
LIBRARY NEWS

31 December 1981

THE FOLLOWING MATERIAL WILL BE DISPLAYED IN THE MESA LIBRARY DEC. 31 - JAN. 7, AND IN THE RL-6 LIBRARY JAN. 8-14. NEW ACQUISITIONS ANNOUNCED DEC. 18, ARE PRESENTLY ON DISPLAY IN THE RL-6 LIBRARY THROUGH JAN. 7.

NEW BOOKS

QA76.5 O35 1980. MICROCOMPUTER MANAGEMENT AND PROGRAMMING. Ogdin C. A.
QA76.6 P9 1980. COMPILER DESIGN AND CONSTRUCTION. Electrical/Computer Science and Engineering Series. Pyster A. B.
QA76.9 D3 1980. DISTRIBUTED DATA BASES. Drafian I. W., Ed.
QC153 Y53 1980. STRATIFIED FLOWS. 2nd ed. Yih C. S.
QC880.4 A8A8 1981. MESO-SCALE ATMOSPHERIC CIRCULATIONS. Atkinson B. W.
QC921.48 S95 1980. STRATIFIED FLOWS. 2nd ed. Yih C. S.
QC993.6 B35 1981. MOUNTAIN WEATHER AND CLIMATE. Barry R. G.
QD251.2 W82 1979 v.1. MODERN ORGANIC CHEMISTRY. Vol. 1. Wu C. N.
QP632 M9C65 1981. HANDBOOK OF TOXIC FUNGAL METABOLITES. Cole R. J.
QR69 G27D78 1981. MICROBIOLOGICAL APPLICATIONS OF GAS CHROMATOGRAPHY. Drucker D. B.

NEW TECHNICAL REPORTS

ATMOSPHERIC SCIENCE


ENGINEERING & TECHNOLOGY

2-0281. QUALITÉ RADIOMÉTRIQUE DES IMAGES RECTIFIÉES ILLUSTRATION DES DIVERSES MÉTHODES DE RÉ-ÉCHANTILLONNAGE. Traizet M. 1981.

OCEANOGRAPHY

2-0295. ON THE EARLY WINTER EFFECTS OF THE GREAT LAKES. I: A Numerical Simulation with Comparison to Observation. Boudra D. B.
NEW MICROFICHE

WE ARE NOT ABLE TO ANNOUNCE ALL OF THE MICROFICHE THE LIBRARY RECEIVES, BECAUSE OF THE VOLUME.

THESE ARE THE MOST RELEVANT TITLES:

ATMOSPHERIC SCIENCE

ADA100325. TOTAL ELECTRON CONTENT FORECASTING AT AFGWC. Manley J. A. 1981.
NUREGCR1367. AEROSOL USERS MANUAL. Gelbard F. 1981.
DOEEV102062. GEOCHEMICAL DETERMINATION OF BIOSPHERIC CO2 FLIXES TO THE ATMOSPHERE. Studier M. 1981.
30 December 1981

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH
P.O. Box 3000 Boulder, Colorado 80307 (303) 494-5151

JOB OPENINGS

ELECTRONICS TECHNICIAN II - 2872
ATO - FOF
Non-exempt range 28: $1,264 - 1,642/month
DUTIES: Will be responsible for field installation and maintenance of components for PAM I. Will participate in field data collection. Will be primary communications technician during the design and development of PAM II. Will assist in the construction of one or more satellite direct read-out ground stations.
REQUIRES:
--Knowledge of terrestrial or satellite data communication techniques and hardware
--Skills in using test equipment such as: spectrum analyzer, signal generators, impedance bridges, error rate test sets
--Field installation experience to include: antenna siting, alignment, reduction of interference in multi-transmitter environments, diagnosis of propagation related problems, etc.
--Skill in drawing electronic circuits
--Ability and willingness to travel
--Ability to obtain GSA drivers' license (no more than two moving violations in the past 3 years)

ALSO DESIRED, BUT NOT REQUIRED:
--Knowledge of printed circuit board manufacturing techniques
--Knowledge of some computer programming
--Skill in using machine shop tools
--FCC license (commercial or amateur)
--Familiarity with digital circuits
Esther Blazon, X581

Support Scientist II or Scientist I - #2863

ACAD - GOMOT
Exempt range 81: $19,920 - 29,800/year
or 82: $23,904 - 35,856/year
DUTIES: To perform line-by-line calculations of transmittances by gases in the infrared. Will use computer programs to calculate radiances and perform inversions and aid in interpreting results to define instrument and algorithm capabilities, and troubleshoot operational algorithms. Will assist in the validation of satellite results by collecting, organizing and comparing results of in-situ measurements with satellite results. Will provide scientific support on a wide range of topics through computer programming at a high level of performance.
ADDITIONAL DUTIES FOR SCIENTIST I: Will modify and improve programs to calculate radiances and perform inversions, and will study the basic physics of gradient problems and transmittance parameterizations. Will do numerical and analytical research on the inversion algorithm, to improve accuracy, stability and vertical resolution. Will work on developing the basic infrared spectral parameters for gases of interest. Will carry out research on atmospheric problems, in conjunction with other team members, using satellite data.
REQUIRES:
Support Scientist II:
--M.S. or equivalent in atmospheric science or closely related physical science
--Knowledge of techniques and skill in modeling and interpretation of observations of infrared radiation from the earth's atmosphere
--Knowledge of techniques for calculating and parameterizing atmospheric transmittance of atmospheric gases
--Demonstrated skill in writing and operating sophisticated programs on a large computer, including handling large data sets
--Skill in atmospheric research and computer graphics

ALSO DESIRED, BUT NOT REQUIRED:
--Research experience on middle atmospheric problems

Additional requirements for Scientist I level:
--Ph.D. or equivalent in atmospheric radiative transfer or closely related subject
--Demonstrated high level of knowledge and skill in modeling infrared radiative transfer in the earth's atmosphere, and in the interpretation of observations of radiation emerging from the earth's atmosphere

ALSO DESIRED, BUT NOT REQUIRED:
--Skill in doing line-by-line calculations in the infrared, or experience with inversion problems in the infrared

NOTE: This position is for an initial 1 year term, but is expected to last 4 years, depending on funding.
Margareta Domecki, X517
MONDAY, January 4
Open

TUESDAY, January 5

- AAP Seminar -- The Evolution of the Environment of Severe Local Storms: Preliminary Mesoscale Modeling Results, Richard Anthes, AAP
  3:30 p.m.
  NCAR Mesa Laboratory, Main Seminar Room

- AMS, Denver Chapter, Meeting -- Mesometeorology and Other Delights “Down Under”, Joseph Golden, ERL, NOAA
  7:30 p.m.
  NCAR Mesa Laboratory, Main Seminar Room

WEDNESDAY, January 6
Open

THURSDAY, January 7

- Conference -- Second Annual SCD Users' Conference
  9:00 a.m. Thursday to 12:00 noon Friday
  Hilton Harvest House Hotel

FRIDAY, January 8

- ACAD Seminar -- The Canadian Federal Government Acid Rain Program, Peter W. Summers, Atmospheric Environment Service, Federal LRTAP Scientific Program, Canada
  10:00 a.m.
  NCAR Mesa Laboratory, Main Seminar Room

MONDAY, January 11
Open

Calendar Notes announcements may be mailed to Vonda Giesey, ML 136. Wednesday at 12:00 noon is the deadline for items to be included in the Calendar Notes.