

## ASP's Summer Colloquium Set

The topic for this year's summer colloquium, sponsored jointly by the Advanced Study Program (ASP) and the Atmospheric Analysis and Prediction Division (AAP, soon to be called the Climate and Global Dynamics Section), will be "Dynamics of Low-Frequency Phenomena in the Atmosphere." The purpose of the three-week colloquium, scheduled for 6-24 July, is to acquaint graduate and postgraduate students who have interests in large-scale dynamics with the current state of research.

The colloquium will consist of a series of review lectures as well as seminars on special topics. It will focus on the dynamics of tropospheric phenomena with time scales greater than a week. The lectures will cover natural phenomena such as teleconnection patterns, blocking, weather regimes, and the 30- to 60-day oscillation.

This year's conference coordinators are Grant Branstator, Roland Madden, and Joseph Tribbia (all of AAP). Principal lecturers will be Michael Ghil (University of California, Los Angeles), Brian Hoskins (University of Reading, England), and J. Michael Wallace (University of Washington).

Graduate and postdoctoral students are being invited to apply for participation in the colloquium. Selection for participation entails a stipend to cover expenses (including travel). Application information may be obtained from ASP (ML room 220, ext. 1601), and the deadline for application is 15 March.

A schedule of lectures and topics will be available from the ASP office in May. NCAR staff members are welcome to attend the lectures as space permits. •SB

## Announcements

### Takacs Quartet Concert at NCAR

The Takacs String Quartet of Budapest, which is again in residence at the University of Colorado, will present a special concert at 5:30 p.m. on Friday, 20 February, in the lobby of the Mesa Laboratory.

The concert will be followed by a buffet supper in the NCAR cafeteria. At 8:00 p.m., in the Main Seminar Room, there will be a nontechnical lecture by Wes Wilson and Kim Elmore (both of the Atmospheric Technology Division) entitled "JAWS, CLAWS, and LLWAS: Wind Shear and Airplanes."

Admission to the concert is free but by ticket only. Tickets are available only to UCAR/NCAR staff members and specially invited guests. They can be obtained from Dorothy Kokesh at the Mesa Laboratory reception desk (ext. 1140) on a first-come, first-served basis. Due to limited seating, no more than two tickets may be given to

any staff member. If there is any space remaining on 18 February, staff members may request additional tickets from Betty O'Lear in Walter Roberts's office (ML room 208, ext. 1611).

Tickets for the buffet supper are \$15 per person and are also available from Dorothy.

### New Staff Members

Lynne Andrade, student assistant III with the Scientific Computing Division. ML room 33, ext. 1311.

Lucy Warner, writer/editor II with Administrative Services. ML room 259, ext. 1190.

Vivian White, accounting clerk with Administrative Services. 55A room A-4, ext. 8861.

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### This Week in Staff Notes . . .

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## Craig Kunitani's Ski Report

After three races in the Teamski Corporate League, the sublime snails of NCAR (the NCARgot) have established themselves in the middle of the pack. The 14 team members posted their best group effort (seventh place) at the season opener at Copper Mountain; Cathy Irwin, John Lind, and Mike Moran received overall placement award pins.

Without the help of Brian Eaton and several other top team members, the gastropod mollusks slimed their way to tenth place down an icy, modified giant slalom course at Vail. Debuting were two wife-husband combinations: Jane and Jeff Bobka and Vicki and Rick Wolski. In his second run of the day, mountain man Chuck Smythe put it all together, bettering his highest team placement of the last two racing seasons.

Nancy Crow and Craig Kunitani continued their consistent performances at Winter Park, where new team member John Conway passed through the gates for the first time. But the highlight of the young season has been the bronze medal finish by team spiritual leader Cathy Irwin.

## Film Readers Available

The Scientific Computing Division has two 3M model 400 reader/printers for 35-mm and 16-mm film. They function as readers only, however. Anyone who would find these useful should contact Andy Robertson, ext. 1241, as soon as possible. Andy will hold the readers for one week.

## Ski Club News

There are still some spaces available for the skiing trip to Steamboat Springs from 27 February to 1 March. The cost is \$124 per person, which covers two nights of lodging and two lift tickets (taxes included).

For further information, call Diane Wilson, ext. 1656.

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Production Assistant: Anatta

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## Cafeteria News

The Wednesday lunch special for next week (4 February) will be spaghetti with meat sauce, small salad, garlic bread, spumoni, and coffee or tea, all for \$3.50.

The breakfast special for next week will be a Denver omelet with toast for \$2.25.

## Visitors

CLAUDE CATALA, Paris Observatory, Meudon, France. Field of interest: Stellar winds, low-gravity waves. 1 February–31 March. ML room 482A, ext. 1512.  
—Keith MacGregor, High Altitude Observatory

DAVID GATES, University of Michigan. Field of interest: Climate modeling. 31 January. ML room 202C, ext. 1305.  
—Robert Dickinson, Atmospheric Analysis and Prediction Division

JOHN LATHAM, University of Manchester, England. Field of interest: Acid deposition modeling work. 12 January–6 February. East Park room 118, telephone 441-2917.  
—Julius Chang, Acid Deposition Modeling Project

JOHN OLIVER, Indiana State University. Field of interest: Climate impacts. 2 February–31 March. ML room 320C, ext. 1615.  
—Michael Glantz, Advanced Study Program

DAVID RUST, National Severe Storms Laboratory, Norman, Oklahoma. Field of interest: Atmospheric electricity. 22-23 January.  
—James Dye, Cloud Systems Division

REINHARD SCHLICKEISER, Max Planck Institute for Nuclear Physics, Heidelberg, Federal Republic of Germany. Field of interest: Solar flares and galactic winds. 2 February–27 August. ML room 598, ext. 1546.  
—Thomas Bogdan, High Altitude Observatory

MATTHEW SMITH, Florida State University. Field of interest: Radiation and cloud physics. 18 January–1 February. RL-6 room E143, ext. 8957.  
—William Hall, Cloud Systems Division

SUSAN WELSH, Florida State University. Field of interest: Circulation of the Gulf of Mexico. 13 January–1 February. ML room 428A, ext. 1378.  
—William Holland, Atmospheric Analysis and Prediction Division

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# LIBRARY NEWS

January 29, 1987

## SAMPLE JOURNALS FOR REVIEW

The following journals are available in the Library for your review and evaluation. We would appreciate your comments as to whether the Library should subscribe to them.

INTERNATIONAL JOURNAL OF FORECASTING  
JOURNAL OF ENGINEERING COMPUTING AND APPLICATIONS  
OCEAN-AIR INTERACTIONS  
WIND ENGINEERING



## LIBRARY SERVICES

\* COMPUTER LITERATURE SEARCHING \*

The ENVIRONMENTAL BIBLIOGRAPHY is a database which covers the periodical literature from 1973 to the present in the fields of general human ecology, atmospheric studies, energy, land resources, water resources, and nutrition and health. More than 300 periodicals are indexed in this database, thereby offering the patron quick and easy access to article references for every environment research need.

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My acquisitions recommendation for the Mesa, RL3, RL6, MAR, or RAF Library (circle one)  
is: \_\_\_\_\_ Name: \_\_\_\_\_

The following new books for the Mesa, RL6, RL3, MAR, or RAF Libraries will be displayed in the Mesa Library January 29 through February 5. They may be reserved during display for subsequent checkout. NCAR members located off the Mesa may borrow new books and reports by checking the item(s) of interest below and sending the list to Gayl Gray. Reference material, however, does not circulate.

## NEW BOOKS

	CALL NUMBERS
RESEARCH & DEVELOPMENT. Intersociety Working Group, 1986.	HJ2051 R39 1986
ADVANCED PROGRAMMER'S GUIDE TO UNIX SYSTEM V. Thomas, R., Rogers, L.R., 1986.	QA76.6 T43 1986 c.2 in RL3
MODULA-2: DISCIPLINE & DESIGN. Sale, A., 1986.	QA76.73 M63S25 1986
THE UNIX C SHELL FIELD GUIDE. Anderson, G. and Anderson, P., 1986.	QA76.76 O63A53 1986 c.2
DOS/UNIX SYSTEMS: BECOMING A SUPER USER. Seyer, M.D. and Mills, W.J., 1986.	QA76.76 Q63S49 1986
FUZZY MATHEMATICAL TECHNIQUES WITH APPLICATIONS. Kandel, A., 1986.	QA248 K35 1986
STATISTICAL THERMODYNAMICS. McQuarrie, D.A., 1973.	QC311.5 M25 1973
THE ENCYCLOPEDIA OF CLIMATOLOGY. Oliver, J.E. and Fairbridge, R.W., 1987.	QC854 E525 1987 in Ref
ORGANIC REACTIONS. Roger, A., ed., 1984.	QD251 07 v.32
QUANTUM CHEMISTRY. McQuarrie, D.A., 1983.	QD462 M4 1983 v.1
QUANTUM CHEMISTRY: SOLUTIONS MANUAL. McQuarrie, D.A., 1984.	QD462 M4 1983 v.2
CHEMICAL THERMODYNAMICS. Rock, P.A., 1983.	QD504 R63 1983 v.1
CHEMICAL THERMODYNAMICS: SOLUTIONS MANUAL. Rock, P.A., 1985.	QD504 R63 1983 v.2
STATISTICS AND DATA ANALYSIS IN GEOLOGY. 2nd ed. Davis, J.C., 1986.	QE48.8 D38 1986
EVENTS OF THE MID-CRETACEOUS: FINAL REPORT ON RESULTS OBTAINED BY IGCP PROJECT NO. 58, 1974-1985. Reymont, R.A. and Bengtson, P., 1986.	QE687 R4 1986
NBS STANDARD REFERENCE MATERIALS CATALOG. National Measurement Laboratory (U.S.). Office of Standard catalog. National Bureau of Standards, 1986.	TA404.5 N2 1986-87 in Ref
RADIOWAVE PROPAGATION IN SATELLITE COMMUNICATIONS. Ippolito, L.J., 1986.	TK5104 I67 1986 c.2 in RL6
TELECOMMUNICATION NETWORKS: PROTOCOLS, MODELING, AND ANALYSIS. Schwartz, M., 1987.	TK5105 S385 1987
LOCAL AREA NETWORK DESIGN. Hopper, A. and Temple, S. and Williamson, R.C., 1986.	TK105.7 H67 1986

## NEW TECHNICAL REPORTS

### Pollution

23633. -- SIMPSON, I R, DRYPLUM: A COMPUTER MODEL FOR PREDICTING THE BEHAVIOR OF PLUMES IN THE ATMOSPHERE (1986)

# JOB OPENINGS

January 27, 1987

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

Salaries for new employees and for current employees receiving reassignment will be between the range minimum and maximum shown for each job.

Specific starting salaries are determined by comparing the applicant's qualifications with the requirements and assessing expected performance levels.

## **\*ACCOUNTS PAYABLE SUPERVISOR - #0678\***

ADM - Business and Financial Services  
Non-exempt Range: 29, \$1,675 - 2,175/mo  
( '87)

**DUTIES:** Ensures accuracy of various accounting reports and reconciles to final records. Prepares invoices for payment. Reconciles the daily check run of the accounts payable group prior to printing checks. Answers questions about invoices and interprets accounts payable policies and procedures for the NCAR staff. Prepares journal voucher entries to reclassify programs, set up contract retainage, or to correct errors in the cash disbursement records. Responds to vendors requesting tax exempt certificates and credit information. Keeps apprised of NCAR/UCAR tax exemption status. Handles and maintains files for stop payment request for the NCAR and UCAR checking accounts. Systematically reviews checks under \$5,000 to determine that the supporting documentation is proper, discounts have been taken, the disbursement has been properly authorized, and distribution coding is appropriate. Assists with special assignments within the Finance Office. Performs backup responsibilities and cross-trains in various accounting functions. Coordinates the process for recording accounts payable liabilities at year-end and the corresponding payment of such liabilities and reconciliation of the liability accounts. Supervises employees in ways consistent with UCAR policies and with its equal employment opportunity and affirmative action programs.

## **REQUIRES:**

- Skill in supervising employees including scheduling, training, and appraising performance
- Skill in maintaining attention to detail and following through on assignments
- Skill in data entry and operating office equipment such as calculators, CRT's, check printing machines, and check signing equipment
- Skill in analyzing accounting problems and working with automated accounting systems
- Skill in establishing work priorities
- Working knowledge of basic accounting practices, purchase order processing, and accounts payable
- Knowledge of accounting internal controls as they relate to the cash disbursement process

## **ALSO DESIRED, BUT NOT REQUIRED:**

- College course work in accounting
- Becky Foco X8710

## **ASSOCIATE SCIENTIST III OR IV - #0668**

HAO - Incoherent Scatter Radar Data Base  
Exempt Range: 82, \$2,660 - 3,990/mo  
( '87) III  
83, \$3,193 - 4,790/mo  
( '87) IV

**DUTIES:** Continue the development of the Incoherent Scatter Radar Data Base (ISRDB). Develops ways to facilitate computer access to the ISRDB. Develops algorithms for extracting summary data from the available data sets. Develops graphical display techniques for the data. Oversees preparation of catalogues and user guides to facilitate database use. Works with radar personnel to fac-

ilitate and encourage timely transfer of documented and quality controlled data. Assists scientists within and outside NCAR in providing data for research projects involving ionospheric and upper atmospheric data. Develops computer programs for scientific analysis of the data. Supervises employees in ways consistent with UCAR policies and with its equal employment opportunity and affirmative action programs.

**ADDITIONAL DUTIES (Level IV):** Manages the ISRDB program and budget. Coordinates data management activities among the radar personnel and NCAR. Organizes workshops to facilitate scientific studies of the data. Serves as liaison with outside agencies interested in the data base. Writes reports and articles and makes presentations describing and publicizing the ISRDB.

**REQUIRES:**

- M.S. in physical, mathematical, computer, or related sciences OR the equivalent combination of education and experience
- Demonstrated skill in computer analysis of geophysical, atmospheric, or space science data
- Demonstrated skill in scientific programming
- Skill in managing scientific data bases
- Skill in initiating creative design and development of scientific data analysis techniques
- Strong oral and written communications skills
- Knowledge of computer developments in the fields of data management, storage, transmission, and display

**ADDITIONAL REQUIREMENTS (Level IV):**

- Skill in managing projects and associated budgets
- Expert knowledge of data base management techniques and technical requirements
- Skill in making oral and written presentations to scientific and administrative groups

**ALSO DESIRED, BUT NOT REQUIRED:**

- Working knowledge of ionospheric data
- Knowledge of UNIX or CRAY Operating Systems

Becky Foco X8710

**ASSOCIATE SCIENTIST IV - #0667**

HAO - Fourier Tachometer  
Exempt Range: 83, \$3,193 - 4,790/mo ('87)

**DUTIES:** Implements improvements in the Fourier Tachometer instrument and data analysis facilities. Performs Fourier analysis of the data received from the instrument. Analyzes possible sources of

instability, and devises new ways to measure and compensate for instrumental errors. Develops calibration techniques to improve the measurement of absolute Doppler shifts. Develops analysis methods to apply Fourier Tachometer data to new observational problems. Interacts with Fourier Tachometer project personnel and visiting scientists who are using the instrument for their observations.

**REQUIRES:**

- M.S. in physics, applied mathematics, electrical engineering, or related field OR the equivalent combination of education and experience
- Expert skill in computer processing of scientific data, including statistical methods and modular programming techniques
- Expert skill in dealing with complex instrumental data reduction systems and with abstract analysis methods
- Demonstrated skill in obtaining relevant data sets and applying appropriate reduction methods to the data
- Demonstrated skill in defining and solving complex technical problems
- Skill in initiating creative design and development of scientific instruments and analysis techniques
- Skill in FORTRAN programming
- Strong oral and written communication skills
- Working knowledge of laboratory and optical instrumentation
- Working knowledge of optical interferometers, laser systems, and 2-dimensional array detectors
- Expert knowledge of advanced statistical and signal-processing techniques, particularly Fourier transforms
- Expert knowledge of numerical analysis methods

**ALSO DESIRED, BUT NOT REQUIRED:**

- Skill in working with small computer systems and real-time control applications
- Knowledge of C or PDP/11 assembly language programming

Becky Foco X8710

**RESEARCH POSITIONS AVAILABLE**

**These positions are located at the INO site, near Bay St. Louis, Mississippi.**

UCAR - Institute for Naval Oceanography  
Exempt Positions  
The Institute for Naval Oceanography (INO) is now recruiting for its first increment of researchers and staff.

Positions available will include: Ph.D. scientists, associate scientists, numerical analysts, and applications programmers. Precise position descriptions are not yet available, but we encourage inquiries from interested individuals. INO's mission is to provide leadership in:

- the research, development, and evaluation of ocean models
- the design and development of a documented and validated community ocean model and comprehensive data base library
- the design and execution of ocean prediction experiments
- the development of methods to assimilate remotely sensed and in situ oceanic data
- the interfacing of ocean models with atmospheric and acoustic models

Skills/background required will include:

- physical oceanography
- fluid dynamics
- dynamic meteorology
- large-scale computer modeling
- numerical analysis
- microcomputer programming or related disciplines

Becky Foco X8710

#### SCIENTIST I - #0677

HAO - Solar Activity and Magnetic Fields  
Exempt Range: 84, \$2,420 - 3,629/mo

DUTIES: Conducts both independent and collaborative research aimed at understanding a broad variety of solar and related astrophysical problems with an emphasis on experimental/observational programs. These programs include the SPARTAN coronagraph, the Solar Stellar Spectrophotometer, the Stokes Polarimeter Project, the Fourier Tachometer, and the MkIII K-coronameter. Participates in instrument development projects which includes contributing to all phases of the programs: design, development, utilization, and scientific interpretation of data. Publishes research results in refereed journals and makes presentations at national scientific meetings.

REQUIRES:

- Ph.D. in a physical science or the equivalent combination of education and experience
- Demonstrated skill in performing research which requires using or developing modern techniques and instruments for the measurement and characterization of properties of radiation fields
- Demonstrated skill in interpreting

- experimental or observational data
- Demonstrated skill in carrying out independent research, in a laboratory or observatory setting, relevant to the understanding of physical systems
- A record of publications in refereed national journals giving evidence of research experience

ALSO DESIRED, BUT NOT REQUIRED:

- Demonstrated skill in making solar or astronomical observations
- Demonstrated skill in working effectively in collaborative research
- Skill in using computer systems for instrument control, data logging, and data analysis
- Skill in the design and use of instruments for use in space
- Working knowledge of electronics
- Working knowledge of optical detectors
- Knowledge of problems of current interest in solar physics or solar-terrestrial physics

Note: Scientist I appointments are for terms of up to three years. Individuals may be appointed to the next higher level of Scientist in accordance with the UCAR Scientific Appointments Policy.  
Becky Foco X8710

#### \*SYSTEMS ADMINISTRATOR - #0683\*

UCAR - Unidata

Exempt Range: 65, \$2,280 - 3,419/mo

DUTIES: Responsible for the maintenance and administration of Unidata's network of computer workstations and support systems. Utilizes a network based on Ethernet with DARPA TCP/IP protocols along with the Sun Network File System, and workstations, including a variety of computers running the MSDOS, UNIX, and VMS operating systems. Develops systematic procedures for administration of Unidata networks, documents those procedures and trains others to be administrators. Solves immediate problems for diverse users (programmers, managers, secretarial/clerkical) in a high-usage, inhomogeneous network of personal workstations. Performs regular file system backups for the main file server machines, and helps users of other workstations to establish their own backup procedures. Checks systems which appear to be failing and takes the appropriate steps to have the problems corrected in a timely fashion. Installs operating system, application, and networking software upgrades when they become available.

**REQUIRES:**

- B.S. or B.A. in a scientific discipline or the equivalent combination of education and experience
  - Minimum of one years' experience with a version of the UNIX operating system as a system administrator, development project leader, or similar high-level function
  - Substantial familiarity with the C or FORTRAN programming language
  - Basic knowledge of computer communications protocols
  - Demonstrated skill in maintaining an electronic mail system
  - Demonstrated skill in installation of a major utility (e.g., compiler, editor, etc.) on a UNIX or VMS system
- ALSO DESIRED, BUT NOT REQUIRED:**
- Demonstrated skill as a system administrator for both UNIX and VMS operating systems
  - Demonstrated skill maintaining systems on Ethernet using the DARPA protocol suite
  - Advanced coursework or degree in computer science or electrical engineering with computer emphasis
  - Demonstrated skill in UNIX systems programming, i.e. system configuration, kernel remake, device driver installation, etc.
  - Demonstrated skill with Sun Network File System
  - Demonstrated skill with DEC, Sun, and IBM PC-type computer hardware interfaces
  - Demonstrated skill repairing damaged UNIX file systems, and familiarity with the utilities used to dump/restore/archive UNIX files
  - Demonstrated skill in C language linkage conventions
  - Demonstrated skill with uucp network
  - Demonstrated skill with computer graphics, windowing systems, image processing, and display systems
  - Familiarity with USAN or NSFnet networking projects

**ADDITIONAL POSITIONS**

We are still accepting applications for positions listed below. For information on any of the following previously published job vacancies, please contact the Personnel/EOP office on extension 8693.

**FISCAL ASSISTANT - #0671**

ATD - Research Aviation Facility  
 Nonexempt Range: 28, \$1,523 - 1,978/mo  
 (87)  
 Date first published in "Job Openings":  
 December 31, 1986

**OUTSIDE LABORER - #0670**

ADM - Physical Facilities Services  
 Non-Exempt Range: 24, \$505 - 656/mo  
 (.5 FTE)  
 Date first published in "Job Openings":  
 December 31, 1987

**SCIENTIFIC APPLICATIONS PROGRAMMER II - #0664**

ATD - Research Aviation Facility  
 Exempt Range: 61, \$2,173 - 3,260/mo  
 Date first published in "Job Openings":  
 December 31, 1986

**SCIENTIST I or II - #0542**

AAP - Climate Section/Global Climate Modeling Group  
 Exempt Range: 84, \$2,420 - 3,630/mo  
 85, \$3,044 - 4,567/mo  
 Date first published in "Job Openings":  
 April 16, 1986

**SCIENTIST II or III - #0512**

ATD - Research Applications Program  
 Exempt Range: 85, \$3,044 - 4,567/mo  
 86, \$3,653 - 5,480/mo  
 Date first published in "Job Openings":  
 February 4, 1986

**SCIENTIST II OR III - #0673**

ATD/ACD - Research Aviation Facility  
 Exempt Range: 85, \$3,044 - 4,567/mo II  
 86, \$3,653 - 5,480/mo III  
 Date first published in "Job Openings":  
 January 7, 1987

**CASUAL****STUDENT ASSISTANT II - #0660**

AAP - Climate Section/CCIG  
 Flat Rate: \$6.90/hour  
 Date first published in "Job Openings":  
 December 31, 1986

**STUDENT ASSISTANT II - #0662**

SCD - User Services  
Flat Rate: \$6.90/hour  
Date first published in "Job Openings":  
December 31, 1986

**STUDENT ASSISTANT II - #0669**

AAP - Mesoscale Research Section  
Flat Rate: \$6.90/hour  
Date first published in "Job Openings":  
December 31, 1986

**STUDENT ASSISTANT III - #0638**

CSD - Entrainment, Electrification, and  
Precipitation Group  
Flat Rate: \$9.50/hour  
Date first published in "Job Openings":  
November 5, 1986

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

# CALENDAR NOTES

FEBRUARY 2ND THROUGH FEBRUARY 9TH

## MONDAY, February 2

OPEN

## TUESDAY, February 3

OPEN

## WEDNESDAY, February 4

- HAO Seminar -- The Jets of SS-433 -- John Brown, University of Glasgow

10:30 a.m.

NCAR Mesa Lab, Main Seminar Room

## THURSDAY, February 5

- HAO Seminar -- Progress Towards an Improved Equation of State for Stellar Envelopes -- Dimitri Mihalas, HAO/University of Illinois

10:30 a.m.

NCAR Mesa Lab, Main Seminar Room

- CSD and WRP/ERL Seminar -- Rear Inflow and Other Recurring Features of Squall Lines with Trailing Regions of Stratiform Rain -- Brad Smull, WRP/NOAA

3:30 p.m.

RL-3, Room 620

## FRIDAY, February 6

- ATD Seminar -- First Results from HAPEX -- Jean Claude Andre, CNRM, Toulouse, France

10:30 a.m.

RL-6, Main Seminar Room, W-179

## MONDAY, February 9

OPEN

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Calendar Notes announcements may be mailed to Sheryl Meek, ML 140. Tuesday at 5:00 p.m. is the deadline for items to be included in Calendar Notes.

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