

Heavily used classrooms to be refitted

By Robert J. Sales News Office

Plans to gut and renovate 33 "workhorse" classrooms, starting with 10 in Building 2 this summer, were announced by Provost Joel Moses at this month's faculty meeting on February 19.

The announcement capped a whirlwind effort involving the commitment and cooperation of faculty, administration and staff.

In an interview after making the announcement, Dr. Moses said, "We are committed to bringing our teaching environment up to the standards of excellence for which MIT teaching and research are known.'

Professor Lawrence S. Bacow, chair of the Faculty Policy Committee, who provided early support and impetus for the project, was pleased that it proceeded expeditiously and smoothly.

"These renovations will be greeted with great enthusiasm by both faculty and students," said Professor Bacow. "It's very gratifying. After all, teaching and education are at the core of our mis-

Dr. Moses noted that the renovations mark a rebirth of Project 2000 started by the late Dean Margaret MacVicar. Eventually, all of the Institute's classsrooms will be evaluated. Many of the "workhorse" classrooms have not been updated for years, except for periodic painting and the occasional replacement of lighting fixtures

In addition to those upgrades, the renovations this summer will encompass heating and air conditioning, new furniture, modern chalkboards, and storage areas for (continued on page 8)



Assistant Professor Maureen Raymo, a marine geologist, holds an oceanbottom sediment core sample used in her studies of deep-sea biodiversity. Photo by Donna Coveney

Jackson to give keynote talk at student physics conference

By Robert J. Sales News Office

IT alumna Shirley Ann Jackson, M who inspired the founder of the National Conference of Black Physics Students (NCBPS), will be the keynote speaker when the group returns to its MIT roots for its 11th annual meeting from February 28 to March 1.

In 1986, Dr. Jackson's photograph on the cover of Ebony impelled MIT graduate student Cynthia R. McIntyre

to organize the first NCBPS conference. Dr. McIntyre (PhD '90), now the Commonwealth Professor of Physics at George Mason University, will return to the MIT campus to run the faculty/recruiter workshop at this year's conference.

Professor McIntyre invited graduate student Manyalibo Matthews to chair the conference this year. Mr. Matthews, 26, attended his first NCBPS conference while an undergraduate at (continued on page 8)

Climate changes affect deep seas, scientists find

hanges in climate affect the bio-- diversity of even the deepestdwelling animal communities in the ocean, according to a new finding by scientists at MIT and the US Geological Survey

The research counters the long-held "stability-time" hypothesis that deepsea life-three kilometers or more beneath the surface of the ocean-is insulated and relatively impervious to largescale climatic changes at the water's surface. Those changes take place over a few thousand to tens of thousands of years, a period of short time on the evolutionary scale.

"Our evidence suggests that deepsea environments undergo climatically driven temperature, nutrient and organic carbon flux changes during glacial-interglacial cycles," said Maureen Raymo, assistant professor in the Department of Earth, Atmospheric and Planetary Sciences.

We discovered that there were changes in dominance in species and that diversity decreased during glacial periods," she added. "This is the first study to systematically put the stability-time hypothesis to the test.'

Professor Raymo, a marine geologist, and colleague Thomas Cronin, a paleontologist at the US Geological Survey, published their findings in the February 13 issue of Nature.

Little is known about deep-sea bottom or "benthic" life. It was only the late 1960s when scientists discovered that the deep sea supported high species diversity. Professor Raymo said the deep sea must be viewed as an integral part of the global ecosystem.

"We're learning about how our world and the environment and the plants and animals that live in it are affected by climate. We want to see how dramatic the effects can be and how rapidly communities can adjust to them," she said.

In their research, Drs. Raymo and Cronin studied communities of tiny crustaceans called ostracodes that live many kilometers below the ocean's surface in the North Atlantic Ocean. There are more than 15 species of ostracodes

The scientists studied the fossilized remains of ostracodes in a 200-meterlong core of sediment drilled from the deep North Atlantic in an area called Site 607. The core was obtained by the Ocean Drilling Program, which is funded by the National Science Foundation and a consortium of 15 member nations

Looking down the core is like taking an archaeological trek millions of years into the past, Professor Raymo said. She was able to see changes in the diversity of ostracode species during glacial and interglacial periods by making geochemical and faunal measurements on the sediment core.

41,000-YEAR CYCLES

Drs. Raymo and Cronin discovered that ostracode biodiversity increased and decreased in time with 41,000year climate cycles. Those cycles are related to a periodic wobble in the tilt of the Earth's axis of rotation caused by gravitation.

"We measured trends in biodiversity from 2.3-to-2.8-million-year-old microscopic fossil shells," Professor Raymo said. "We found that the bottom-dwelling communities living in the North Atlantic have been inherently unstable in the face of past global climate changes. The community of ostracodes varied greatly, decreasing in diversity during cold glacial periods and recovering species richness during warmer periods.

Professor Raymo said that the research not only challenges the stability-time hypothesis, but also underscores the importance of studying the past to better understand biodiversity over long time scales and into the future

"Predicting the impact of human activities on climate and, in turn, on biodiversity will remain difficult until we gain a better understanding of how climate has affected biodiversity in the past," she said. "And this is causing people to rethink their understanding of deep-sea ecology."

The research was funded by the US Geological Survey Global Change Program and an American Chemical Society grant.



Parking and T pass updates **T PASS HOURS EXTENDED**

INBRIEF

MEDICAL SURVEY

The Medical Department will conduct a random telephone survey of several hundred campus and Lincoln Lab employees to ascertain how MIT Medical might better meet the health care needs of employees and their families. Participation in the survey is entirely voluntary. Surveyors will call employees at their offices between early March and mid-April 1997. For more information, contact Mary Hertema, marketing administrator, at x3-1322.

Human rights activist Yelena Bonner greets Institute Professor Emeritus Herman Feshbach at a February 14 party in honor of his 80th birthday, held at the Faculty Club and the American Academy for Arts and Sciences. With the help of a translator, Ms. Bonner regaled guests with tales of the help by Professor Feshbach, a pioneer in theoretical nuclear physics, in smuggling her husband Andrei Sakharov's work out of the Soviet Union. "He wasn't worried about the KGB-he only worried about his wife finding out," she quipped. Photo by Donna Coveney

The Parking and Transportation Office (Rm E32-105) is now open until 6pm during the last three business days of each month to issue MIT-subsidized MBTA passes. The hours of distribution during the last three business days of the month are as follows:

Parking and Transportation Office-9am-6pm

Lobby 10-10am-3:30pm

The Source (Student Center)-9am-5pm

All passes that aren't picked up during the last three business days (February 26-28 for March passes) at the above locations will be available in the Parking and Transportation Office from 9am-4pm the rest of each month. Any participant who wants to change pickup locations may do so by sending e-mail to <mitparking@mit.edu>. Those who would like to begin participating in the subsidized MBTA pass program should see their department's parking coordinator or call x3-9701.

(continued on page 8)

RECYCLING EXTENDED

Phone book, magazine and softcover publication recycling has been extended until mid-March. The containers are located in the parking lot of Building E17, the Building 56 loading zone, and between Buildings 13 and 11. Direct questions to recycling coordinator Jennifer Combs, x3-7671, or <jcombs@ mit.edu>



* -Open to public **-Open to MIT community only ***-Open to members only

ANNOUNCEMENTS

- Career Services and Preprofessional Advising Recruitment Presentations**-Feb 26: Simulate, 6pm, Rm 4-153. Wind River Systems, 7pm, Rm 4-149. Feb 27: Autodesk, 5:30pm, Rm 2-131. Lotus Development Corporation, 5:30pm, Rm 4-149. Simon and Schuster, 6pm, Rm E51-315. Netscape Com munications, 6:30pm, Rm 4-159. Mar 4: Hagen and Company, 7pm, Rm 4-163.
- On-Campus Housing**-The deadline for onis summer and fall 97-98 vacancies in family and single student apartments and dormitories is 5pm on Friday, February 28 1997. On March 1, there will be a housing lottery for any fully-registered continuing graduate student wanting on-campus hous ing for the 97-98 academic year. Applications are available in Graduate Housing, Rm E32-133, and must be returned by the deadline to the same office. More info: x3-5148 The Graduate Housing Office will be closed Monday, March 3 due to the lottery

RELIGIOUS ACTIVITIES

The Chapel is open for private meditation 7am-11pm daily. Regular Chapel services are:

- Baptist Campus Ministry**-Weekly events: Tuesday night dinner at 5:15pm; Tuesday night bible study, 6pm; Monday graduate discussion, noon. Meets in Bldg W11.
- Campus Crusade for Christ**-Weekly meeting on Wednesdays, 8pm, PDR 1 & 2, 3rd fl Student Center. Daily prayer, Rm W11-080 (CFL), 8am. More info: x2-1781 or <absfree@mit.edu>
- Tech Catholic Community**-Weekday Mass Tues & Thurs 5:05pm, Friday 12:05pm, Satur day 5pm, Sunday 9:30am & 5pm. Call x3-2981
- Christian Science Organization**-Thursdays at 7pm. Call x3-8797 or < Inorford@eagle.mit.edu> for further information.
- Communitas-Life Together**-Protestant Worship Sunday at 1 Iam. Sponsored by: American Baptist Church, United Church of Christ, United Methodist Church, Presbyterian Church (USA). Chaplain John Wuestneck, x2-1780 or <chaplain@mit.edu>.
- Lutheran-Episcopal Ministry at MIT*-Regular Wednesday worship, 5:10pm, followed by supper in the Bldg W11 dining room, Bible Studies, Tuesdays 5:30-6:30pm Bldg W11. More info: x3-0108.
- Meditation and Discourse on the Bhagavad Gita*-With Swami Sarvagatananda, MIT Chaplain and Head, Ramakrishna Vedanta Society of Boston. Every Friday, 5:15 6:30pm, MIT Chapel. Sponsored by the MIT Vedanta Society. More info: 661-2011 or <mehta@jimmy.harvard.edu>
- MIT Orthodox Christian Fellowship**-Wednesdays at 5:30pm in Student Ctr DR 1 for dinner followed by Chapel Vespers. Mike Decerbo, Dorm x5-7569.

Other religious meetings:

- Baptist Student Fellowship*-Weekly meetings on Tuesdays, include dinner followed by Bible Study. 5:30-7pm, Bldg W11, small dining room. Sponsored by Baptist Campus Ministry. More info: x3-2328.
- Graduate Christian Fellowship**-Weekly meetings in Student Ctr, PDR 1&2, Fridays at 5:30pm. Also weekly Bible studies and Responsible Technology discussion group. Crabtree 868-0488 Andrew

Wednesdays at noon, South Lab S2-410. Annie Lescard, Linc x2899

MIT Muslim Students Association*-5 daily prayers, Bldg W11; also Friday congregation 1:10-1:45pm, Rm W11-110. Info: x8-9285.

OPPORTUNITIES

- The Peter J. Eloranta Summer Undergraduate Research Fellowships. Several \$5,000 stipends are available to MIT undergraduates (including June 1997 graduates) planning to spend the summer on an independent investigation or branching out in a new direction inspired by some previous work. The planned work should be student-originated or student-directed. It may be in any field. Call Undergraduate Academic Affairs at x3-7909 for details. Deadline for proposals: April 1.
- The Ilona Karmel Writing Prizes. Cash prizes awarded in categories of fiction, short story, poetry, drama, essay, scientific and engineering writing, science writing for the public, and women's and gender studies. Sponsored by the Program in Writing and Humanistic Studies at MIT. Guidelines and cover sheets available in Rm 14E-303 or at <http://web.mit.edu/humanistic/www/> Deadline: April 7.

STUDENT JOBS

- There are more job listings available at the Student Employment Office, Rm 5-119, or on the Web at <http://web.mit.edu/seo/>(student access only).
- On-Campus, Non-Technical. Teach 6 and 4 year olds how to ice skate, Sat. and Sun afternoons. Must love children and know how to skate. If interested, contact Deborah Ancona at x3-0568.
- On-Campus, Non-Technical. Office Assistant: Answer and screen calls for a very busy office . Take messages and set up meetings for staff members. Page stagehands. Sort mail. Check availability of event space us-ing a computerized scheduling system. Rev space application forms for accuracy and verify authorization of requester. Assist with office projects as necessary. Experience needed: Prior reception experience extremely helpful. Computer knowledge (IBM PC) required. Eager to learn and ability to work independently. Capable of interacting on a professional level with a diverse clientele. Customer service oriented. Call Sabrina Greenburg at x3-3913.
- Off-Campus, Technical. ONDRAS Association is seeking a developer to create innovative applications to integrate traditional databases, architectural- and engineering- related data sources, and emerging Internet technologies, especially the World Wide Web. The applicant should be proficient in the following systems, languages, and environments: Internet protocols, including HTTP, HTML, and VRML; Java, applet programming, and Java APIs (especially JDBC); Relational databases and ODBC; Windows, Windows NT, and Unix. Familiarity with AutoCAD would be helpful. Please send resume to Greg Dellinger, fax (617) 492-7844 or 1050 Massachusetts Avenue, Cambridge, MA 02138.

For students with a Federal Work Study compo nent in their aid package (see <http://tute.mit.edu/ seo/wwwcl/sersum.html> or contact Student Employment Office for full details).

Youth Counselors. The Cambridge Family YMCA currently has a drop-in program for children ages 9-14. The After-School Jam Sessions run M-F 2:30PM-5:30PM. Children participate in daily recreational activities such as: basketball, soccer, swimming, floor hockey etc. We are looking for youth counselors to assist the Program Coordinator and Gym Director. Candidates must have excellent interpersonal skills and the ability to work well with children. Please call

Council names first Graduate Fellows

By Robert J. Sales News Office

ware of the need to develop inter-Adisciplinary solutions to global problems, the MIT Council for Sustainability has appointed 24 Graduate Fellows from 11 departments. Among them are seven graduate students from civil and environmental engineering (CEE) and four from earth, atmospheric and planetary sciences (EAPS).

Eight women and 16 men were selected for the fellowships by the Council, chaired by Provost Joel Moses. In the introduction to a book that profiles the Fellows, President Charles M. Vest said:

"When these gifted students leave MIT, they will become leaders in their fields. In addition to a heightened awareness of environmental concerns and sustainability issues, we want them to have a lifelong network of colleagues to call upon as they work on complex,

multidimensional issues. Their participation in joint activities as Sustainability Fellows will provide the critical perspectives and collegial resources to expand opportunities for environmentally sustainable solutions.'

Noting that a similarly diverse group produced excellent results on the three-year chlorine project, David H. Marks, Crafts Professor of Civil and Environmental Engineering, said, "They learned an unbelievable amount from one another and bonded well in spite of the fact that without the project they would probably never have met."

Professor Marks, MIT's coordinator for the Alliance for Global Sustainability (AGS), expects the Fellows for Sustainability to have a similarly fulfilling experience. "They are of the same ilk-very bright but within a disciplinary framework," he said. "The program allows them to get to know and learn from people outside their discipline. We encourage them to

Regular applications drop 2%, but early applications rise 8%

n a seesaw effect that reflects a growing trend for early-admission decisions by high school seniors, MIT received 194 fewer regular-admissions applications to MIT this year compared to 1996, but the number of earlyadmission applications rose by 149.

The Admissions Office reported receiving 7,828 regular applications for the Class of 2001 (targeted for 1,070 students), compared to last year's 8,022 for the Class of 2000, which had a 1,080-student goal.

The 2 percent drop in general applications compared to an 8 percent increase in early admission applicants (MIT Tech Talk, January 15) from 1,751 a year ago to 1,900 this year. MIT accepted 511 last year and 524 this year of the early applicants, who have until May 1 to decide about MIT.

This is generally a positive trend for MIT, in that we get more early applications from students who are focused on what we offer, and we have fewer later applications from those who might not have as strong an interest in

ships with printers, seek out donated materials, develop web site, organize media and photo files, develop promotional materials, organize events, disseminate information, and fulfill orders and develop inventory system for products and materials. Minimum requirements: familiarity with Macintosh computers including Microsoft Word 5.0 (some graphics programs such as PageMaker desired), planning, writing, organizing and oral skills, ability to communicate effectively and work with a team. Fax cover letter and resume to Karen Young at 623-4359.

Radio News. Living On Earth produces a one hour weekly radio news program on environmental issues and conducts middle school programs on environmental education. Opportunities exist in the following areas: general production, news writing, feature story research, middle school curriculum activities development. Candidates should possess excellent written and oral skills, and feel at ease with accessing information via telephone and a number of com grams. Additionally, s/he should be well organized. Some broadcasting, recording, journalism, public policy, biology or environmental issues work experience is helpful. Please fax resumes with cover letters to Julia Madeson at 868-8659 or e-mail <loestaff@world.std.com>.

MIT," Director of Admissions Michael Behnke said.

"On the other hand, this trend is not necessarily a good thing for the national college admission process as a whole. Some students feel pressured to make early applications before they have done the serious thinking they should do about what's best for them.'

Ivy League schools reported similar trends in a report in the Boston Globe of February 8. General applications went down at Harvard by 8 percent, while the number of early applications remained the same. At Cornell, applications went down by 5 percent and early applications were up by 4 percent. This seesaw effect was also observed at Yale, Dartmouth, and Brown. Columbia, however, went up in general applications (+9 percent) and also in early applications (+18 percent), while the University of Pennsylvania went down in both general (-3 percent) and early applications (-11 percent).

Kenneth D. Campbell

mer Internships. As an intern at Boston's only suicide prevention center, you'll become a trained and experienced telephone befriender and have the opportunity to work with agency staff on projects related to volunteer recruitment, community education. or development. Applications due March 15. Contact Mark Redmond, 500 Commonwealth Ave., Boston, 536-2460.

Greater Boston Food Bank. Help is needed to inspect, sort, and repack food before it can be distributed. Mon-Thurs 8:45am-12:30pm and Sat 12:30-3:30pm. This is a great opportunity for groups and individuals. For more info, call Carole Wegman at 427-5200, ext. 167.

CABLE

For more information about cable at MIT, call Randy Winchester at x3-7431, Rm 9-050, e-mail: <randy@mit.edu>. World Wide Web: <http:// organize what they do and they have been very active and motivated."

Professor Marks and Professor Rafael L. Bras, head of CEE, are faculty advisors for the Fellows.

From their first meeting, members of the Council for Sustainability were impressed by the intellectual rapport and sense of common purpose that quickly developed among the Fellows.

"We anticipate major accomplishments from this charter group of Sustainability Fellows," said Professor Bras. "They represent the best MIT has to offer, and we are convinced they will contribute greatly to one another's knowledge and understanding. The benefits to society at large will be immeasurable."

The Fellows attended the recent AGS meetings, witnessing first-hand the free exchange of ideas among the three universities and representatives of industry and government. The other two universities involved in AGS, the University of Tokyo and the Swiss Federal Institute of Technology in Zurich, plan to establish similar fellowships.

The charter members of the SGFS listed by department are:

CEE: Kent K.C. Bares, Alejandro Cano Ruiz, Jennifer A. Howard, Jeremy B. Levin, Jeffrey D. Niemann, Wendy J. Pabich-Sproull and Mark D. Stoughton.

Chemical Engineering: Shanta Krishnamurthy and Randy D. Weinstein.

Chemistry: Ilia Dubinsky and Geoffrey D. Smith.

Earth, Atmospheric and Planetary Sciences: Gary Holian, Gary A. Kleiman, Jeffrey M. Scott and Stephanie L. Shaw.

Economics: Elizabeth M. Bailey. Electrical Engineering and Computer Science: Laura Pruette.

Materials Science and Engineering: Samuel A.S. Newell.

Political Science: David M. Fairman and David M. Reiner.

Technology, Management and Policy Program: Brindha P. Muniappan and Mort Webster.

Urban Studies and Planning: Janet K. Martinez and Adil Najam.

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<crabtree@mit.edu>

Hillel*-More info: x3-2982.

Lincoln Laboratory Noon Bible Studies*-

Gretchen Lahey at 661-9622.

Communications. Work with the communications director and youth staff to develop public relations materials, build relation-

Crimewatch

The following incidents were reported to the MIT Campus Police between Feb 7 - 13:

Feb 7: New House, annoying phone call; Bldg E51, bike rack, \$500 bike stolen.

Feb 8: Bldg 26, printer and VCR stolen, \$700.

- Feb 10: Bldg 13, suspicious activity; Bldg E51, VCR stolen, unknown value; Bldg 20, hardware stolen, \$100; Bldg NE43, harassing phone calls; Student Ctr, cellular phone stolen, \$200; Bldg E51, laptop stolen, \$2,814.
- Feb 11: 500 Memorial Dr., noise complaint; Bldg 7, bicycle seat stolen, \$50; Senior House, wallet stolen, \$10; Bldg 4, sm. file cabinet stolen, \$140; Baker, peeping tom; Memorial Dr. at Ashdown, male arrested for receiving stolen property.
- Feb 12: Albany Garage, simple assault between a pedestrian and operator of a motor vehicle; Bldg E52, printer stolen, \$300; Senior House, clothing and credit card stolen, \$310; Bldg E52, suspicious activity; Bldg 3, suspicious activity.
- Feb 13: East Campus, annoying phone calls; Kappa Sigma, coat and wallet stolen, \$170; Albany open lot, indecent exposure; 500 Memorial Dr., bike stolen, \$800; Bldg E53. annoying phone calls; Bldg E19, \$50 cash stolen; Bldg 20, computer stolen, \$2,595.

VOLUNTEERS

The MIT Public Service Center (Room W20-311. x3-0742) has compiled the following volunteer opportunities.

Cambridge Youth Soccer needs coaches for the Spring '97 season, April 12th-June 21st. Share your skills with kids. Call Sue at 868-0223

Center House, Inc. for persons with disabilities needs volunteers to work in direct client services which provide supportive counseling and advocacy, assist members/staff plan, and participate in events. Administrative assistance is also needed. Evenings and weekends are available. Please contact Rose or Mark Kirwin at 723-4257.

The Samaritans of Boston are offering Sum-

- Continuously Running Programs-Channel 11: NASA Television most days, sometimes interrupted for other uses. Channel 12: Today at MIT-alisting of MIT events. To submit your event listings for this channel, send email to <tv-messages@mit.edu>. Channel 13: International Channel: see <http://www.ichannel.com> for more information.
- Feb 26: Channel 10: 4pm-Physics 8.01 Review Assignment #4 with Prof. Walter Lewin. This program will repeat every hour on the hour until 4pm, 3/5.
- Mar 3: Channel 8: Live coverage of the MIT EECS Colloquium, "Immunology and In-trusion Detection" by Stephanie Forrest, University of New Mexico, Visiting MIT, EECS and AI Lab. Channel 9: 5:30pm-2am-MIT EECS Colloquium (repeat).

Mar 4: Channel 8: 4-5:30pm-Live coverage of the MTL VLSI Seminar by Craig Keast, MIT Lincoln Laboratory. Channel 9: 5:30pm-2am-MTL VLSI Seminar (repeat).

Mar 5: Channel 10: 4pm-Physics 8.01 Review Assignment #5 with Prof. Walter Lewin. This program will repeat every hour on the hour until 4pm, 3/12.

Office of the Arts URL: http://web.mit.edu/arts/www/

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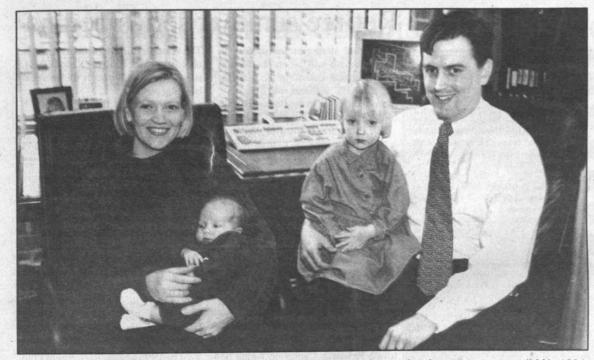
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Printed on Recycled Paper





LeAnn Lindsey and her husband Justin Lindsey, who founded the software development company JLM in 1994, Photo by Donna Coveney sit in his office with their children, Taylor and Rachael.

Three engineering chairs awarded

T ship in recognition of teaching have wo Ford chairs and a professorbeen announced by the School of Engineering

Professors Philip M. Gschwend of the Department of Civil and Environmental Engineering and Earll Murman of the Department of Aeronautics and Astronautics have been named Ford Professors of Engineering.

Professor Gschwend's research involves assessing the fates of organic compounds in the



ena affecting such chemicals, and on transformations such as dehalogenations.

He has won his department's outstanding teacher award as well as the 1995 Bose Award for Teaching Excellence, and he is co-author of the text Environmental Organic Chemistry. Professor Gschwend came to MIT as a postdoctoral associate in chemical engineering in 1979; he was subsequently hired in 1981 as an assistant professor of civil and environmental engineering and was promoted to associate professor in 1986, won tenure in 1987 and achieved the rank of full professor in 1993. He holds the BS from Caltech (1973) and the PhD from the Woods Hole Oceano-



A researcher in the field of computational fluid dynamics, Professor Murman is a former head of his

Athena. His ca-

tion (1979).

graphic Institu-

Lean Aircraft Initiative. He holds the BSE (1963), the MA (1965) and the PhD(1967) from Princeton and worked as a research scientist for several companies before joining the MIT faculty as a professor of aeronautics and astronautics in 1980.

Others who were recently named to Ford chairs, which recognize contributions to recipients' disciplines and the School of Engineering, are Professors Barbara Liskov and Alan Oppenheim of the electrical engineering and computer science (see MIT Tech Talk, November 6, 1996) and Harry Asada of mechanical engineering (MIT Tech Talk, February 12)

The newest School of Engineering Professor of Teaching Innovation is Anthony Patera, professor of mechanical engineering. The chair recognizes teaching excellence and supports initiatives in research and teaching programs. From 1989-94, Professor Patera was co-director of the MIT Supercomputer Facility, which aimed to make supercomputer

The Lord Foundation of Massachu-

setts has established a new career

development professorship in the De-

partment of Materials Science and En-

Foundation Career Development As-

The first professor to hold the Lord

chanical proper-

ties of thin films.

Professor Ross'

appointment was

announced by

cycles available for undergraduate and graduate education. He was also involved in setting up the

Hypermedia Teaching Facility, and he received the Den Hartog and Spira awards for excellence in teaching in 1987 and 1994, respectively. Professor Patera's research interests are in computa-

tional methods, numerical analysis, fluid mechanics, heat transfer, optimization, and parallel processing.

Patera

After receiving the SB (1978) and SM (1980) in mechanical engineering and the PhD (1982) in applied mathematics, all from MIT, he became an assistant professor at the Institute. He was promoted to associate professor in 1985, received tenure in 1988 and became a full professor in 1991.

Firm started by students takes balanced approach

By Donna Coveney **News Office**

From its inception, the software firm JLM has viewed itself as a team. Programmers manage their own time. They take time off when they need it. They are not second-guessed.

"People know we care," says Justin Lindsey, who left MIT to found the company in 1994 with his wife LeAnn (SB '94) and another friend, who has since left the firm. Mr. Lindsey is now back in school at MIT and expects to receive his degree in electrical engineering and computer science next year.

'Everyone in this company is either my friend or a friend of a friend that's here," Mr. Lindsey says. "We do a lot of stuff outside work together."

These activities include a daily table hockey tournament and a corporate hockey team (three of the original JLM team members met at MIT playing intramural hockey). One old friend living in California came east to work at JLM and brought another close friend with him.

Jeremy Warren, who has been working at JLM for two years and is also a former MIT student, loves his job. "It's a good atmosphere," he says. "It's great to work with people I know and get along with, and we have a lot of leeway. It's a challenge to design and implement our own projects, and it's a lot of fun."

Ras Nukovic (SB '96) agrees. "Everyone is really nice here, and understanding," he says. "The atmosphere is not high-pressure, and everyone is trying to do their best."

Mr. Lindsey knew from previous work experience about the punishing working hours often logged by programmers. When JLM was founded in 1994, Mr. Lindsey and his wife vowed not to overwork or make unreasonable demands on employees

JLM hires MIT students to work part-time and tries to get a feel for their personalities and how they interact with colleagues. In a system such as theirs, "one bad egg can sour things for the whole team," Mr. Lindsey says. Some of them are hired when they graduate, in effect creating a farm system arrangement with MIT for the JLM team.

"That way, we have already worked with everyone we hire full-time," he says. "MIT grads have incredible skills and learning curves; they are faster and better than anyone else. Though an MIT education may be a painful method of teaching, people learn."

Maintaining JLM's low-key environment isn't easy. With growth come client demands and deadlines that don't easily reconcile with the company's philosophy. As the pressures increase, Mr. Lindsey finds himself getting overprotective of his employees' time.

"We guard against [overwork] almost like a religion," he says. At MIT or some other companies, "It's a pride thing to say, 'Why not work 110 hours a week?' Everyone here could do that, but we choose not to."

Ms. Lindsey, who handles accounting, taxes, payroll and some legal issues, loves the flexibility. "I can work from home and be with my kids," she says. "Jobs in chemistry wouldn't offer me that option." The Lindseys' threeyear-old daughter Rachael is a regular at the office, and one-month old Taylor will most likely become one as he gets older. They expect to hire an accountant in the future, at which point she would like to be more involved in the software development process.

Located in the American Twine building in East Cambridge, JLM has expanded workspace and positions as cash flow allowed. The company has never taken out a loan or received outside investment, but as they are now poised to expand further, he acknowledges that the firm now needs to raise capital.

The biggest project they have undertaken to date was the development of Realtime Delivery of EDGAR Documents (Electronic Data Gathering Analysis Retrieval). It was one of the earliest products to allow users to send and receive documents over the Internet in minutes. Though other packages have since become available, Mr. Lindsey says that JLM's is still the fastest software of its type.

Because technology will continue to grow in importance, the Lindseys see a niche for JLM as a partner to help companies develop and execute a technology strategy. The firm has 10 employees (six full-time and four part-time). Mr. Lindsey says he could imagine expanding to 200-300 employees, but beyond that, growth will be contingent on maintaining their corporate values.

"Our employees are our most valuable asset," Ms. Lindsey says.

League plans breakfasts

The Women's League is introduc-I ing "power breakfasts," a series of informal morning get-togethers for women in the MIT community starting next month.

Breakfasts are scheduled early enough on weekdays to encourage women with work responsibilities to participate. Each breakfast will feature a menu prepared by chef Peter Rhein, a faculty or staff guest speaker and the opportunity for informal conversation with colleagues. The first breakfast is scheduled for Wednesday, March 26, from 8-9:30am. Seating for each breakfast is limited to 32 guests who make reservations by purchasing a ticket from Sis de Bordenave, administrative coordinator in the Women's League office, Rm 10-342. Tickets are available on a firstcome, first-served basis for \$10 each. The guest speaker on March 26 will be Rosalind Williams, dean for undergraduate education and student affairs. She will informally discuss her goals and objectives in her new role, reflecting on her professional choices. Starting in 1980, Professor Williams has worked in the Program in Science, Technology, and Society and the Program in Writing and Humanistic Studies. She was associate chair of the faculty from 1991-93.



gineering.

sives, vibration damping and control. Its headquarters are in Cary, NC, and it has manufacturing facilities in Erie, PA, and Dayton, OH.

Professor Ross received the BA with first-class honors from Cambridge University, England (1985) in materials science and metallurgy, and then continued at Cambridge for the PhD (1988) on electromigration in thin metal films. She spent two years as a postdoctoral fellow at Harvard, working on interdiffusion in electrodeposited multilayers, and in 1991 she became a research scientist at Komag, Inc., the leading merchant supplier of memory disks for magnetic storage ture and growth, and in the properties of interfaces between films, including stress effects and tribology.

Materials Research Society, the Electrochemical Society, IEEE and the American Physical Society.

The Lord Foundation also funds the Lord Professorship of Materials Sci-

Ross named to new materials science chair

diffusion and interface structures. She has worked on the control of film magnetic properties such as magnetic anisotropy and time-dependent magnetic behavior. She has also worked on mechanical properties of films including

Professor Ross is a member of the

OTHER LORD FUNDING



reer includes service on several other MIT and government committees as well as with the

Addendum

An article in the February 12 issue of MIT Tech Talk about Professor Richard O. Hynes winning the Gairdner Award listed several other MIT faculty members who have also won that award, including three who went on to win the Nobel Prize. The list of previous Gairdner recipients should also have included Professor H. Gobind Khorana, who received the award in 1980; he was a 1968 co-winner of the Nobel Prize in medicine or physiology.

department and Ross director of Project

Thomas W Eagar, department head and POSCO Professor of Materials Science and Engineering.

"We are very pleased that Professor Ross has decided to join our faculty," he said. "She brings leading edge expertise in the rapidly expanding area of magnetic media in which the problems of materials science are controlling our ability to create ever greater storage capacity. We are also delighted that the generosity of the Lord Foundation of Massachusetts will create this chair and the equipping of Dr. Ross' new laboratories. Such support is vital for MIT to attract the best young faculty."

The Lord Foundation of Massachusetts was established by the estate of Thomas Lord, the son of the founder of the Lord Corp., in order to strengthen the interactions between that company and MIT. The Lord Corp. is a privately held company with expertise in adhedevices. She arrived at MIT this month as assistant professor in materials science and engineering.

"I am very enthusiastic about the opportunities available for research at MIT, and I am looking forward to initiating research projects in the areas of magnetic materials and thin films for storage and sensor applications," Dr. Ross said. "The possibility of combining expertise from different departments, including physics and engineering, in order to design and make magnetic devices is particularly exciting. I am grateful to the Lord Corp. for providing support for my appointment."

Professor Ross researches the magnetic and mechanical properties of thin films used in magnetic storage media and recording heads. Current media are made with sputtered films 10-20nm thick. Designing high-end media requires a detailed understanding of the relation between film microstructure and magnetic and mechanical properties. She is interested in thin film strucence and Engineering, and several graduate fellowships in that department. Professor Lionel C. Kimerling has held the Lord Professorship since its establishment in 1990. A portion of the Lord Professorship funds also have been used to support junior faculty research program start-up packages.

The Lord Fellowships were established in 1993 with an initial \$10,000 gift from the Lord Foundation. This gift has been augmented by additional contributions from the Lord Foundation of \$35,000 in 1994 and \$40,000 in 1995. To date, approximately \$60,000 has been awarded to three graduate students in the Department of Materials Science and Engineering in the form of two full one-term and one full summer term fellowships along with four partial-term supplemental fellowships. The remaining \$25,000 was awarded to graduate students in the department in support of junior faculty during the current academic year.

Calendar Calendar

* -Open to public **-Open to MIT community only ***-Open to members only

February 26 - March 9

SPECIAL INTEREST

- Europe at the Brink of Crisis: Italy and the U.S. as Partners in Preventive Diplomacy*—Feb 26: With His Exellency Ferdinando Salleo, Italian Ambassador in the United States. Panel Discussants: Prof. Franco Modigliani and Richard Locke. Sponsored by the Dept. of Political Science, 3-5pm, Bldg E51, Wong Auditorium. Consul General Giovanni Germano will host a reception immediately following. More info; x3-5161.
- Mathematical Snapshots*—Mar 5: Lecture by Prof. Gian-Carlo Rota, MIT, James R. Killian Faculty Achievement Award Lecture, 4:30pm, Rm 10-250.

SEMINARS & LECTURES

WEDNESDAY, FEBRUARY 26

- The Army's Lessons Learned Process*—LTC Mike Trahan, US Army, DACS Army Fellow. Security Studies Program, CIS, 12-1:30pm, Rm E38-615. Bring a bag lunch; refreshments provided.
- Asset Pricing Under Endogenous Expectations in an Artificial Stock Market*---Prof. Blake LeBaron, Dept. of Economics, Univ. of WI. Center for Biological and Computational Learning Seminar Series, 12-1pm, Rm E25-401.
- Interdisciplinary Modeling Studies in the Black Sea*—Temel Oguz, Middle East Technical Univ., Turkey. Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-915.
- Incorporating Aging Effects into Probabilistic Risk Assessment*—Tsu-Mu Kao, MIT. Fission/Energy Doctoral Seminar in Nuclear Engineering, 3-4pm, Rm NW12-222. Refreshments.
- Europe at the Brink of Crisis: Italy and the U.S. as Partners in Preventive Diplomacy*—3pm, Wong Auditorium. See Special Interest, above.
- Characterization of Polymer Films Using Chemical Imaging Techniques*-Dr. Carl Zimba, MIT. Sponsored by the Program in Polymer Science and Technology, 3:30-5pm, Rm 37-252. Refreshments, 3pm.
- Natural Abundance of 15N in Forest Soils*-Linda Pardo, G, MIT. Aquatic Sciences Seminar, 4:05pm, Rm 48-316. More info: Janni x3-5554 or <janiscka@mit.edu>.

THURSDAY, FEBRUARY 27

- Environmental Decision Making Involving Multiple Stakeholders*—George Apostolakis, MIT. Operations Research Center Seminar, 4-5pm, Rm E40-298. Refreshments to follow, Rm E40-106. More info: <http://web.mit.edu/orc/www>, <toktay@mit.edu> or x3-7412.
- Some Recent Results in the Control and Design of Broadband/ATM Networks*—Debasis Mitra, Mathematics of Networks and Systems Dept, Bell Laboratories, Lucent Tech-

nologies. Distinguished Lecture Series, d'Arbeloff Laboratory for Information Systems and Technology, 4pm, Rm 3-133.

- Development of Ultrasonic Phased Array Sensors for NDE of Large Scale Structures*— Arthur Clay, G, MIT. Engineering and Environmental Mechanics, 4-5:30pm, Rm 1-350, Refreshments, 3:30pm. More info: x3-7186.
- Convection from a Local Source in Rotating Fluids*—Boris M. Boubnov, A.M. Obouhov Institute of Atmospheric Physics, Moscow. Center for Meteorology and Physical Oceanography Seminar, 4pm, Rm 54-915.
- The Atom Laser and the Latest Results on Bose-Einstein Condensation*—Wolfgang Ketterle, MIT. Physics Colloquium, 4:15pm, Rm 10-250. Refreshments, 3:45pm, Rm 26-110.
- The Road That is Not a Road and the Open City, Ritoque, Chile*—Ann Pendleton-Jullian, MIT*—Part of the "authors@mit" series sponsored by the MIT Press Bookstore and the MIT Humanities and Dewey Libraries, 6pm, Rm 14E-304.

FRIDAY, FEBRUARY 28

- MHD Oscillations and their Mode Number Identification*—Yongkyoon In. Nuclear Engineering Dept. Fusion Doctoral Seminar Series, 9:30-10:30am, Rm NW16-213. More info: George Haldeman, Linc x4533, <georgesh@ll.mit.edu>.
- Evaluation of Urban Transit Subsidies*—Ian Savage, Professor, Dept. of Economics, Northwestern Univ. Center for Transportation Studies Research Seminar, 12-1:30pm, Rm 1-236. Bring lunch, soda and cookies provided.
- Real-Time Software for Unmanned Aircraft Control*—Martin Gomez, Chief Software Engineer, Aurora Flight Sciences Corp. Fluid Dynamics Research Laboratory Seminar, 12-1pm, Rm 33-206.
- Generation and Utilization of Synchrotron Xray Radiation and Associated Thermal Management Challenges*—Dr. Ali M. Khounsary, Advanced Photon Source, Argone National Laboratory. Mechanical Engineering Seminar, 3pm, Rm 3-270. More info: x2-1490.
- Abrupt Flooding of the Black Sea 5600 BC and its Possible Impact on Human Diaspora and Mythology*—Dr. William Ryan, Lamont-Doherty Earth Observatory. Sponsored by the Dept. of Earth, Atmospheric and Planetary Sciences, 4pm, Rm 54-915. Refreshments, 3:30pm, Ida Green Lounge.
- Scientific Goals and Accomplishments of the Tethered Satellite System*—Dr. William J. Burke, Air Force Phillips Laboratory. Plasma Science & Fusion Center Seminar, 4pm, Rm NW17-218.

MONDAY, MARCH 3

- X-Ray Nanolithography: Extension to the Limits of the Lithographic Process*—Prof. Henry I. Smith, MIT. American Nuclear Society/Nuclear Engineering Dept. Seminar, 3:30pm, Rm NW12-222. Refreshments, 3pm.

EECS Colloquium, 4-5pm, Rm 34-101. Refreshments, 3:30pm.

- Electron and Nuclear Relaxation in NMRD and NMR*---Prof. Ivano Bertini, Dept of Chemistry, Univ. of Florence. The 1997 A.D. Little Lecturer in Inorganic Chemistry, 4pm, Rm 4-370. Reception follows in Rm*18-490. Lectures II & III are on March 5 & 6.
- A Closer Look at Bioremediation Potentials of Microbes and Plants*—Dr. Cindy Orser, Phytotech. Water Resources & Environmental Engineering Seminar, 4:05pm, Rm 48-316. More info: Janni x8-5554 or <janiscka@mit.edu>.
- Rigidity of TQFTs and the Subgroups of Quantum SU(2)*—Prof. Adrian Ocneanu, Dept. of Mathematics, Pennsylvania State Univ. Applied Mathematics Colloquium, 4:15pm, Rm 2-105. Refreshments, 3:45pm, Rm 2-349. More info: http://web.mit.edu/mathdept/www/AppliedMathColloq/spring97> or x3-3661.
- Interfacing with the Future: Implications of the Information Marketplace*--Michael Dertouzos, MIT. Respondents: Tim Berners-Lee, MIT; David Clark, MIT; Richard Sclove, Exec. Dir, Loka Institute. Sponsored by the Technology and Culture Forum at MIT, 4:30pm, Rm 10-250. More info: x3-0108 or <htp://web.mit.edu/tac/ www/home.html>.

TUESDAY, MARCH 4

Deep-Submicrometer SOI CMOS Using Advanced Optical Lithography*—Craig L. Keast, MIT Lincoln Laboratory. MTL VLSI Seminar Series, 4pm, Rm 34-101. Refreshments, 3:30pm.

Lecture by Tim Mitchison, University of California, San Francisco. Biology Colloquium, 4:15pm, Rm 10-250. Coffee and tea served, 3:45pm.

WEDNESDAY, MARCH 5

- Sanctions on Iraq: The Experience to Date*--Comdr. Scott Jones, USN, Political/Military Affairs, US State Dept. Security Studies Program, CIS, 12-I:30pm, Rm E38-615. Bring a bag lunch; refreshments provided.
- Challenging a Paradigm: What do Carbon and Oxygen Isotopes Really Tell Us About Paleoenvironments?*--Prof. Howard Spero, Univ. of CA/Davis. Sponsored by the Dept. of Earth, Atmospheric and Planetary Sciences, 4pm, Rm 54-915. Refreshments, 3:30pm, Ida Green Lounge.
- Structure Function of Fe-S Proteins*—Prof. Ivano Bertini, Dept of Chemistry, Univ. of Florence. The 1997 A.D. Little Lecturer in Inorganic Chemistry, 4pm, Rm 6-120. Refreshments, 3:30pm. Lecture III is on March 6.
- Molecular Analysis of Plasmid Populations Isolated from Marine Microbial Communities*—Dr. Patricia Sobecky. Aquatic Sciences Seminar, 4:05pm, Rm 48-316. More info: Janni x3-5554 or <janiscka@mit.edu>.
- Mathematical Snapshots*—Gean-Carlo Rota, MIT. 4:30pm, Rm 10-250. See Special Interest, above.
- Lecture by Catherine Wilkinson Zerner, Brown University. History, Theory and Criticism Program at MIT, Dept. of Architecture, 5:15pm, Rm 5-216.

THURSDAY, MARCH 6

An Algorithm for Optimal Draining of Fluid Re-entrant Lines*—Gideon Weiss, prof. of Statistics and Operations Research, Univ. of Haifa, Israel; Visiting Prof., MIT. Operations Research Center Seminar, 4-5pm, Rm E40-298. Refreshments to follow, Rm E40-106. More info:

Retiree seminar series begins

Practical strategies for success in retirement will be emphasized at the first spring seminar of the Association of MIT Retirees on Thursday, March 6 at 11am in the Bartos Theater of the Wiesner Building (E15).

Dr. Margaret Ross, a psychiatrist, and Dr. Dawn Metcalf, a social worker in the MIT Mental Health Service, will present "Beating the Blues—A Survival Action Plan." They will discuss how retirees can find satisfaction and enthusiasm in this new phase of their lives.

Dr. Ross, a member of the medical staff since 1979, has been active in a number of the medical department's outreach programs and writes the popular "Ask Lucy" advice column for health@mit, the MIT Health Plans newsletter.

- Dr. Metcalf, who was associated with the Tufts University Human Nutrition Research Center on Aging before coming to MIT, specializes in services to seniors.

Parking for the seminar will be available in the CRA lot at Broadway and Ames Street (enter from Ames off Broadway) to those with an MIT ID. The Wiesner Building at 20 Ames St. is about one block from the Kendall/MIT subway station, through the medical building atrium.

The second seminar, "Strength Training, Exercise and Aging," will be given by Dr. Christina Economos on Thursday, March 20.

Retirement funds' returns reported

For the 1996 calendar year, the MIT Retirement Plan's Variable Fund showed a return of 23.4 percent. In comparison, the Standard & Poor's 500 Index advanced 23.0 percent during the same period. Fixed Fund member accounts have been credited with distributions of 8.9 percent for the year.

The 1996 annual Retirement Plan Statement of Benefits as of December 31, 1996, will be available by mid-March. The Benefits Office has begun looking into the possibility of distributing quarterly statements to active employees later this year.

Rm 35-520. Open to MIT community and outside transportation and logistics community.

- Carbon Dioxide as Refrigerant in a Transcritical Refrigeration Cycle*-Dr. Jeurgen Kochler, Consultant Engineeri, IPEK/Konvekta. Mechanical Engineering Seminar, 3pm, Rm 3-270. Refreshments, 4pm, Rm 1-114. More info: x3-1490.
- Fluid-Assisted Geochemical Transport in Deep-Seated Rocks: Insights from the Experimental Lab*—Prof. Bruce Watson, Rensselaer Polytechnic Institute. Sponsored by the Dept. of Earth, Atmospheric and Planetary Sciences, 4pm, Rm 54-915. Refreshments, 3:30pm, Ida Green Lounge.

COMMUNITY CALENDAR

- Family Resource Center Seminars*—Feb 27: Sibling Rivalry, 12-1:30pm, Rm 4-206. Free, preregistration requested, call x3-1592, <frc@mit.edu>, <http://web.mit.edu/personnel/www//rc>.
- Informal Needlework Group**—Sponsored by the MIT Women's League, 10:30am-1:30pm, Rm 10-340 (Emma Rogers Room). Upcoming meetings: Mar 5, 19, Apr 2, 16, May 7, 21, June 4.
- MIT Libraries Mini-Booksale**—Feb 27: All books "mini-priced" at \$1, some items free, wide selection. All proceeds benefit the Library Preservation Fund. 12-3pm, Hayden Basement Cage, Bldg 14S. More info: x3-5693.
- User Groups and Quick Start Classes**-Feb 26: HTML Demo, 9am-12pm, Rm E40-302. Feb 27: Technology Orientation for New (and/or Confused) Employees, 11am-12:30pm, Rm E40-302. Feb 28: PowerPoint Quick Start, 12:15-1pm, Rm 11-206. All events free. Sponsored by Information Systems.
- Wives' Group**—Feb 26: Jubilee Puppet Theatre, all ages welcome, meet in Twenty Chimneys Room (3rd floor, Student Center), 3pm. Music, puppets, songs and ballons for children. Mar 5: A visit to the Wellesley College greenhouses, beautiful orchids, ferns, and cacti, meet at MIT Medical Dept Lobby, 1pm, tour begins at 2pm. Call Kristin to reserve your space by Feb 26 (x3-1614)

Lexington, 1:15-4pm, Thursday and Friday only. Call x3-7990 at 20A-023 or e-mail <julieh@mit.edu> for further information. Please note that MITAC accepts only cash or a personal check (with a valid MIT ID) made payable to MIT. (Include MIT ID#, room number, and extension on checks.) Credit cards not accepted.

See the MITAC monthly flyer distributed to all MIT employees for further information regarding the events listed below as well as other recreational and cultural events and various types of discounts currently offered to the MIT community by local organizations and businesses either through a special coupon or by showing your MIT ID card.

Juno and the Paycock**—Apr 6: Lyric Stage, Boston, 2pm. Tickets \$15.50 (reg \$24).

Preservation Hall Jazz Band**—Apr 13: Symphony Hall, Boston, 3pm. Tickets \$35.

- Shear Madness**—Apr 20: Charles Playhouse/ Stage II, Boston, 3pm. Tickets \$20 (reg \$28).
- Rent**—Apr 27: Shubert Theatre, Boston, 2pm. Tickets \$22 vs. \$28.50 (balcony). Purchase by 3/14.
- Museum Passes**—Children's Museum, \$4 (reg \$6-7); Museum of Science, \$4 (reg \$5.50-\$7.50).
- Nick's Comedy Stop**— Tickets \$5.50 (\$5 + 50¢ svc charge), admits 2 people.
- Discount Movie Tickets**—Sony Theatres, Showcase Cinemas, General Cinemas \$5 (\$4.50 plus 50¢ svc chrg); General Cinemas, children \$3 (\$2.75 + 25¢ svc chrg); Kendall Square Cinema tickets, \$5.50 (\$5 plus 50¢ svc chrg).

SOCIAL ACTIVITIES

Special Ballroom Dance Workshops*—Mondays nights, starting Feb 24: Intermediate Swing, 7-8pm, International Rumba 8-9pm. Professionally taught. MIT campus, Lobby of building 13, 105 Mass Ave (rear). No partner or experience needed. \$25 per dance (four weeks), \$7 (single lesson). Further information: Vikas 617 225-9859. Presented by the MIT Ballroom Dance Team.

MOVIES

Tickets: \$12 (at the door), \$10 (in advance, available at Hillel). Discounts available for groups, children, seniors. 3pm, Kresge Aud. More info: x3-2982.

hotline at 253-ARTS or consult the World Wide Web at <http://web.mit.edu/arts/www/>. Also see March Arts, page 7.

For more arts-related information call the 24-hour

MUSIC

Institute

Arts

MITCAN: Music of Africa Performance

Class**—Directed/taught by Prof. James Makubuya. Ensemble class offers hands-on practice and performance experience on various traditional African musical instruments. This semester, the MITCAN expands its syllabus of activities to Kenyan and South African music and dances as it continues with items from Uganda. No previous experience is required. Thursdays, 7-9:30pm, Kresge Reh Rm A. More info: x3-4964 or <makubuya@mit.edu>.

MIT Guild of Bell Ringers*—Change ringing on hand bells. Beginners always welcome. Will also ring for occasions. Meets Mondays, 6:30pm, 2nd floor balcony of Lobby 7. Ken, 784-6114

DANCE

21st Annual Israel Folk Dance Festival*---March 9. A performance celebrating the joy and exuberance of Israel and the Jewish culture through dance. Sponsored by MIT Hillel. MIT Folkdance Club*—Sun—International Dancing: Early teaching for beginners-7-8pm; Teaching & requests-8-11pm, Sala de Puerto Rico or Lobby 13. *Tues*—Advanced Balkan Dancing: Regular teaching & requests, 8-11pm, Student Ctr 4th floor. MIT/Wellesley students free, 25¢ others. Call x3-FOLK or email <fdc-request@mit.edu> for locations on a given week.

THEATER

Down and Dirty (Taking it All Off) Creation. Dramashop production of collective piece created by Assoc Prof Brenda Cotto-Escalera and a team of students, actors, designers and writers. Students interested in collaborating or contributing should e-mail <ds_officers@mit.edu>.

OTHER

Applications for Wiesner Student Art Gallery**—All students welcome to apply to put up an exhibit. Information: Ted Johnson, Campus Activities Complex, Rm W20-500. x3-3913 w e b . m i t . e d u / o r c / w w w > , <toktay@mit.edu> or x3-7412.

Turbulence and Mixing Generated by Coastal Vegetation*—Prof. Heidi Nepf, MIT. Engineering and Environmental Mechanics, 4-5:30pm, Rm 1-350, Refreshments, 3:30pm. More info: x3-7186.

Structure Function of Hemeproteins*—Prof. Ivano Bertini, Dept of Chemistry, Univ. of Florence. The 1997 A.D. Little Lecturer in Inorganic Chemistry, 4pm, Rm 6-120. Refreshments, 3:30pm.

Meaning in Life: The Harmony of Nature and Spirit*—Irving Singer, MIT. Part of the "authors@mit" series sponsored by the MIT Press Bookstore and the MIT Humanities and Dewey Libraries, 5:30pm, Humanities Library Reading Room..

FRIDAY, MARCH 7

Lecture by Damian Kulash, President and CEO, Eno Transportation Foundation, Inc*-Center for Transportation Luncheon Seminar on the theme of "Chief Executive Viewpoints," 12-12:45pm (lunch: \$4/MIT students, \$7/others), 12:45-2pm (lecture),

The Basics of Investing (Part 2)**---Mar 3: Presented by the MIT Women's Forum in sponsorship with the MIT Benefits Office, 1-2pm, Killian Hall (Rm 14W-111). More info: <doucette@ilp.mit.edu>.

SENIOR FOCUS

Association of MIT Retirees**—Mar 6: Beating the Blues—A Survival Action Plan. Presentation by Dr. Margaret Ross and Dr. Dawn Metcalf of the psychiatric/social work service of the MIT Medical Dept, 11am, Bartos Theater (Rm E15-070). Coffee and cookies.

MITAC

The MIT Activities Office (MITAC) is a non-profit employee service that serves the cultural and recreational needs of the MIT community (including MIT's retirement community), their families, and friends. Two locations: (1) Room 20A-023, 18 Vassar St, Cambridge, 9:30am-3:30pm, Monday, Wednesday, Thursday, and Friday (closed Tuesday and all Institute holidays); (2) Room LLA-218, x6130, Lincoln Lab., MIT-Germany Program Film*—Feb 27: Dikkat! Wir kommen (1994). In German. 7pm, Rm 2-105, free. More info: <sberka@mit.edu> or x3-6982.

Admission to below Lecture Series Committe Movies is \$2.00, and MIT or Wellesley identification is required. For the latest Lecture Series Committee movie and lecture information, call the LSC Movieline, x8-8881, or check TechInfo or the Web.

Feb 28: The Celluloid Closet, 7 & 10pm, Rm 26-100. Yojimbo, 7:30pm, Rm 10-250. Mar 1: The Mirror Has Two Faces, 7 & 10pm, Rm 26-100. Mar 7: Celestial Clockwork, Rm 26-100. Death of a Bureaucrat, 7:30pm, Rm 10-250. Mar 8: 101 Dalmations, 3, 7 & 10pm, Rm 26-100. Mar 9: The Player, 7 & 10pm, Rm 26-100.

Next deadline for listings: 12 noon Friday, February 28. Covers events from Wednesday, March 5 through Sunday, March 16. Listings for the Institute Calendar and Student Notices may be emailed to <ttcalendar@mit.edu> or mailed to Calendar Editor, Rm 5-111. Faxes are not accepted. Early submissions encouraged.

Scientists listen to oceans for clues to impact on climate

MIT scientists and colleagues have moved a step closer to uncovering some of the mysteries of the ocean's impact on climate. Using sophisticated computer modeling technology developed at MIT, they combined satellite measurements of sea-surface undulations with measurements of how sound travels through the Earth's great bodies of water to describe circulation in the Western Mediterranean.

Oceans store and transport enormous amounts of heat, and their circulation plays an important role in determining the Earth's climate. Measuring circulation on a global basis has, however, proven a difficult and expensive task. Only recently have the required technologies started to catch up with theory in measuring ocean circulation.

In a paper that appeared in the February 13 issue of Nature, MIT scientists and colleagues in Germany and Australia present a picture of circulation in the Western Mediterranean. Their work is based on a systematic combination of sophisticated computer models, highly accurate satellite altimeter measurements of the sea surface shape, and subsurface acoustic tomographic data of heat content. A much largerscale version is now operating over much of the Pacific Ocean, and the intention is eventually to make the system fully global.

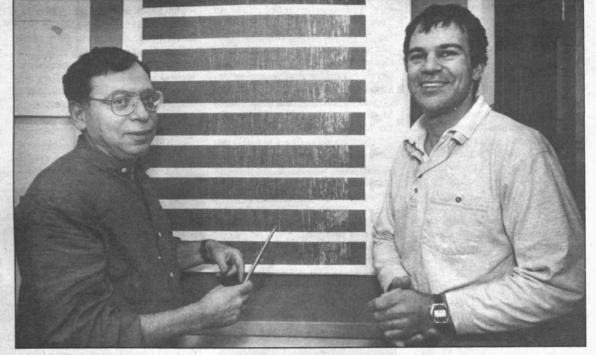
"Climate change is inevitable, and the ocean is a major factor in that change. Unless you understand what the ocean is doing today, you won't be able to predict how it might behave in the future," said Carl I. Wunsch, Cecil and Ida Green Professor of Physical Oceanography in the Department of Earth, Atmospheric and Planetary Sciences (EAPS). "However, our immediate goal is not to predict the ocean, but to determine to what degree it is predictable."

Professor Wunsch is co-author of the paper along with research scientist Dimitris Menemenlis and research engineer Chris N. Hill, both of EAPS; Tony Webb, senior lecturer at University College, Canberra, Australia; and Uwe Send, associate professor at the Institut für Meereskunde in Kiel, Germany.

In a related Nature article in the same issue, Professor Send and colleagues present acoustic tomography data for the Western Mediterranean. The data were gathered during an experiment on the feasibility of acoustically monitoring seasonal changes in the Mediterranean.

PAVING THE WAY

Professor Wunsch said the work shows the capability which is emerging from a 20-year effort to develop observation and modeling techniques to the point where oceanographers can determine the motion of the ocean in time and three dimensions. In 1978, he and Professor Walter Munk of the Scripps Institution of Oceanography proposed the use of long-range acoustics for measuring the ocean and later pointed out the natural complementarity of acoustic tomography, satellite al-



Professor Carl Wunsch and research scientist Dimitris Menemenlis of earth, atmospheric and planetary sciences, display their acoustical data on circulation in the Mediterranean.

timetry and numerical models for observing the oceans.

"This is the first time we have been able to demonstrate their ideas in practice with real altimeter and acoustic data," said Dr. Menemenlis. "The technology simply wasn't mature enough earlier.

A new computer model of ocean circulation developed at MIT plays a central role in this work. The model, which exploits advanced parallel computing technology, was developed by John C. Marshall, professor of atmospheric and oceanic sciences in EAPS, in collaboration with Dr. Arvind, the Charles W. and Jennifer C. Johnson Professor of Computer Science and Engineering, and their respective groups (Professor Arvind is also affiliated with the Laboratory for Computer Science). "With the

spicuously effective over and above ordinary excellence." This award was

established in memory of Henry

Manley Goodwin, the first dean of

the Graduate School. Nominations

for this award should be sent to the

Office of the Dean of the Graduate

Photo by Donna Coveney

ever-growing power of parallel computers and languages, a synthesis of ocean observations on a truly global scale is within reach," said Professor Marshall.

Satellite altimeters flying 1,300 kilometers above the ocean use radar to measure the shape of the sea surface to an accuracy of a few centimeters. The shape of the sea surface gives scientists an accurate measurement of large-scale currents.

Because the ocean is salty, it is a good electrical conductor, and therefore it is not possible to use light or any kind of radio wave to penetrate it. That is why satellites can only measure properties of the sea surface, and acoustic measurements are required to sample the interior ocean.

ENVIRONMENT CONSTRAINTS

Scientists have known since at least 1944 that it is possible to send sound over long distances through the ocean. But measuring those sounds accurately is technically demanding: undersea loudspeakers must be able to function at depths of 1,000 meters or more and at about 100 atmospheres of pressure.

The acoustic tomography system works by sending a series of coded signals from an acoustic source, or underwater loudspeaker. "The primary information we are looking for is how warm or how cold the water is along the propagation path and how the water flows," said Dr. Menemenlis. "The warmer the ocean, the faster the sound propagates.

The sound that the speakers make is less than that of large breaking waves or big ships. It is comparable to the intensity of a stereo system playing at a depth of one kilometer. The signals are picked up by receivers thousands of kilometers away by making use of signal-processing technology similar to that used for detecting faint signals from distant spacecraft.

'We are concentrating on how one

Nominations solicited for Institute awards mance of teaching duties is "con-

N ominations are open for 12 Insti-tute awards to be presented at the annual Awards Convocation on Wednesday, May 14. The event is designed to honor mem-

bers of the student body, faculty and staff who have made notable contributions to the life of the MIT community.

To nominate someone, write a letter describing the nominee's qualifications and accomplishments and send it, as well as other supporting documents, if available, to the Awards Committee, Rm W20-549. The deadline for nominations is Friday, March 21.

A brief description of each award follows

The Karl Taylor Compton Prizes, given in memory of MIT's ninth president, are the highest awards presented by the Institute to students and student organizations in recognition of achievements in citizenship and devotion to the welfare of MIT. They reflect outstanding contributions to the MIT community as a whole, sustained over a significant number of years.

The William L. Stewart Jr. Awards are in memory of William L. Stewart Jr., an alumnus and member of the Corporation who showed deep interest in student life at MIT. The Stewart Awards recognize contributions by an individual student or student organization to extracurricular activities and tribution is a criterion for the Award, but longevity, in itself, is not.

The Irwin Sizer Award for the Most Significant Improvement to MIT Education is presented to any member or group in the Institute community to honor significant innovations and improvements to MIT education. The award is named in honor of Irwin W. Sizer, dean of the Graduate School from 1967-75

The Laya and Jerome B. Wiesner Awards honor Dr. and Mrs. Wiesner for their contributions to the arts at MIT. The award was established in 1979 by the Council for the Arts at MIT and provides two annual awards to students (graduate or undergraduate), organizations, living groups, or activities for achievement in the creative arts and in the performing arts. The range of contributions is wide and includes creative work in literature, music, drama, visual arts, photography, film, and dance, among other art forms.

The Louis Sudler Prize in the Arts is presented to a graduating senior who has demonstrated excellence or the highest standards of proficiency in music, theater, painting, sculpture, design, architecture or film. The prize is made from a fund established by Louis Sudler, a performer in the arts and an arts patron from Chicago. The Edward L. Horton Fellowship Award is given in memory of Edward L. Horton, a doctoral candidate in physics, to honor his spirited contributions to graduate student life at the Institute. The award will be presented to any student group that fosters fellowship within the graduate student community. This award was established by the Graduate Student Council upon the untimely death of Mr. Horton in 1982.

performed for the Institute." The award was established by Mr. Billard, a member of the Class of 1924. Nominations for this award should arrive at the Office of the Vice President for Human Resources, Rm E19-220, no later than Friday, March 14.

The Goodwin Medal is presented to a graduate student whose perfor-

Program seeks A+ papers

School, Rm 3-138

The Ilona Karmel Writing Prizes The Ilona Karnier or trong Program in Writing and Humanistic Studies, is accepting manuscripts from undergraduate and graduate students through Monday, April 7.

The 37 prizes carry cash awards and are given to students whose essays, plays, poetry, fiction and technical papers are judged to be of the highest quality by a committee of faculty and staff members

This year, the Louis Kampf Writing Prize in Women's and Gender Studies, named in honor of professor emeritus in Literature Louis Kampf, will be taking entries in the category of fiction with a primary focus on women and/or gender. The award, which is cosponsored by the Program in Women's Studies, is in its second year. Edward Barrett, senior lecturer in the Program in Writing and Humanistic Studies, is the competition chairperson. He encourages interested students to submit their best efforts and asks faculty members who receive outstanding undergraduate papers to urge the students to enter the competition.

undergraduate work in fiction, poetry, essay, or drama of substantial length, completed or in progress. This prize is for longer works or collections that give evidence of publishable quality. First prize, \$300; second, \$150; honorable mention, \$75.

• The S. Klein Prize for Scientific and Technical Writing, for outstanding interpretive writing on scientific and technological subjects by undergraduate and graduate students. Entries should be specifically intended for a nonspecialized but educated audience. First prize, \$300; second, \$150; honorable mention, \$50.

• The Dewitt Wallace Prize for Science Writing for the Public, for writing by undergraduates for lay audi-

events during the preceding year.

The Albert G. Hill Prize is awarded to the minority junior or senior who has maintained high academic standards and made continued contributions to the improvement of the quality of life for minorities at MIT. A former vice president for research, Dr. Hill was an early champion of equal opportunity at MIT

The Lava W. Wiesner Award honors Mrs. Wiesner's contributions to women's activities during her time as first lady of MIT. It was established in 1980 by the MIT Women's League and is presented to the undergraduate woman student who has most enhanced MIT community life.

The James N. Murphy Award was established in memory of the immeasurable contribution to community life at the Institute by a staff member. It is given to an employee whose spirit and loyalty exemplify this kind of inspired and dedicated service, especially with regard to students. Sustained con-

The Association of MIT Alumnae (AMITA) Award is for a woman who has demonstrated the highest level of academic excellence through coursework and related professional activities at MIT.

The following two awards have nomination procedures that differ from those listed above:

The Gordon Y Billard Award is made to "a member of the faculty, nonfaculty employee or one not necessarily affiliated with the Institute, for special service of outstanding merit The prizes are:

• The Ellen King Prize for Freshman Writing, for writing in all categories (short story, poetry, essay, drama). First prize, \$150; second, \$75; honorable mention, \$25.

• The Robert A. Boit Writing Prize, for undergraduates in the categories of essay, poetry and short story, with prizes in each category. First prize, \$250; second, \$150; third, \$100, honorable mention, \$50.

• The Boit Manuscript Prize, for

ences on issues and developments in science, medicine or engineering. First prize, \$300; second, \$150; honorable mention, \$75.

• The Writing and Humanistic Studies Prize for Engineering Writing, for undergraduate writing on any topic of professional interest to engineers. First prize, \$200; second, \$100; honorable mention, \$50.

• The Louis Kampf Writing Prize in Women's and Gender Studies, for writing focused on women and/or gender. The category alternates annually between nonfiction and fiction; for 1996-97, the category is fiction. First prize, \$300.

For more information, visit the Program in Writing and Humanistic Studies office in Rm 14E-303 or its Web site at <http://web.mit.edu/humanistic/www/>, where prize descriptions, entry rules and cover sheets are available.

can bring the acoustic measurements of the interior ocean together with satellite measurements of the sea surface to produce a consistent estimate of what is going on in the ocean," said Dr. Menemenlis. "Through these innovative technologies we can recover a picture of the state of the ocean without disturbing its rich, fascinating, and precious environment."

The new measuring systems will enable scientists to begin to track shifts in ocean circulation, Professor Wunsch said. Virtually all climate models suggest there will be major shifts in climate over the next several decadesperhaps in the form of global warming. However, there are not enough data so far on the oceans to reach any reliable conclusions.

"For example, rising sea levels are an immediate threat to enormous human populations," Professor Wunsch said of the dangers of major climatic shifts. "One has to understand what is going on out there."

Scientists 'rebuild' damaged nerve tissue in mouse brain

Rebuilding damaged nerve fibers has proven a daunting task, but MIT scientists and a colleague recently discovered a gene that is capable of promoting nerve fiber regeneration. For the first time, they were able to fully reestablish lost connections in the postnatal mammalian brain.

Although the research (still at a very basic stage) was conducted on mice, the scientists believe that it opens the door for the functional repair of brain and spinal cord damage in humans.

"This work brings us closer to a time when we might have a therapy for central nervous system damage," said Dong Feng Chen, a postdoctoral associate at the Center for Learning and Memory and the Center for Cancer Research. "It is the first evidence that a large amount of nerve fiber regeneration can be achieved in postnatal brains of mammals, and it provides a strong basis for hope in the field of nerve regeneration and for people living in wheelchairs." Previously, investigators have been able to elicit only small amounts of regrowth of severed connections.

Dr. Chen co-authored a paper on the research that appeared in the January 30 issue of Nature. The other au-

TCF event slated

⁶⁴ Interfacing with the Future: Implications of the Information Marketplace" will be the topic of the next Technology and Culture Forum on Monday, March 3 at 4:30pm in Rm 10-250. The speaker will be Michael Dertouzos, director of the Laboratory for Computer Science. Respondents will be Tim Berners-Lee of the LCS, inventor of the World Wide Web; David Clark, senior research scientist in electrical engineering and computer science; and Richard Sclove, author of *Democracy and Technology*. For more information, call x3-0108. thors were Amgen Professor of Biology and Neuroscience Susumu Tonegawa, a Nobel laureate who is also a Howard Hughes Medical Institute investigator and director of the Center for Learning and Memory; Gerald Schneider, professor of neuroscience in the Department of Brain and Cognitive Sciences, and Jean-Claude Martinou, a scientist at the Glaxo Institute for Molecular Biology in Geneva.

The long nerve fibers or axons that carry messages between nerve cells are very fragile; injuries to the brain or spinal cord caused by trauma or stroke damage many axons, leading to the loss of connections between neurons and other parts of the body and some degree of paralysis.

Scientists have traditionally favored the idea that adult central nervous system neurons, once severed, fail to regenerate, primarily because brain tissue in adult mammals is a hostile environment for the growth of axons. The MIT scientists have shown that intrinsic genetic factors, not just the tissue environment, are of crucial importance. Brain tissue in adults contains factors that inhibit fiber growth, and it lacks growth-promoting factors.

By culturing brain tissue, the scientists discovered why nerves do not regenerate in adult mammal brains; genes that cause the growth of these nerve fibers shut down at a very young age. They also discovered that a gene called bcl-2, which was known to support the survival of cells, promotes the regrowth of severed axons.

"The discovery of a specific gene that is critically important for regeneration in the central nervous system is an important step forward in this field of research," said Professor Schneider. "We now have a genetic tag for the failure of regeneration which is new and very significant, although there are sure to be other factors."

The researchers studied the primary visual system of developing mice. One

set of experiments involved putting retinal tissue next to optical brain tissue known as tectum in a culture dish. In the body, axons grow from nerve cells in the retina to nerve cells in the tectum normally so that the brain can process visual information. They discovered that bcl-2 is a key protein that can promote regeneration of axons in the adult brain.

"This is the first time we observed such a large quantity of axon regeneration in adult central nervous system neurons," said Professor Tonegawa, who holds appointments in the Center for Cancer Research, the Department of Biology and the Department of Brain and Cognitive Sciences. "We believe a similar mechanism operates in the human central nervous system, although this still needs to be confirmed."

REGENERATION SEEN

The scientists also studied axon regeneration in live mice by damaging their optic tracts when they were young. In mice with forced expression of bcl-2 in neurons, they discovered that axons were rebuilt after being damaged.

The scientists noted that further fundamental research is needed to understand precisely how bcl-2 can promote regeneration. "There certainly are other genes and proteins involved in the control of axonal regeneration, and we need to understand the whole process," Professor Tonegawa said.

Funding for the research came from the Shionogi Institute for Medical Science and the National Eye Institute of the National Institutes of Health.

More users join ECAT pilot ranks

By Janet Snover

Community Involvement Team

S tarting next week, an additional 50 new users will begin joining the 65 pilot testers who have been ordering supplies from their computers using ECAT, MIT's electronic catalog. The number of users is expected to grow steadily.

The initial rollout of ECAT allows the purchase of laboratory supplies from VWR Scientific and office supplies from Office Depot. ECAT gives users access to these suppliers' on-line catalogs and lets them place orders directly with the vendors' order entry systems. The plan is to add other preferred partner suppliers to ECAT in the future.

ECAT is used in conjunction with the MIT Procard, a corporate purchasing charge account issued to MIT by American Express. The combination of electronic ordering and the Procard significantly reduces paperwork because there are no requisitions, purchase orders or invoices to approve. Ordering is faster, and most orders are delivered within 24 hours.

The Purchasing Office is still accepting and processing applications for the Procard. Applications may be printed from the ECAT home page at <http://web.mit.edu/ecat/>, or users can request a paper copy by sending e-mail to <mcnamara@mit.edu>.

Reengineering

The ECAT implementation team and MIT's senior administration hope that ECAT's ease of use will encourage more business with the partner companies.

"Greater volume will not only increase the discounts and savings MIT receives, but will also show these vendors that it's worth their time to continue to work with us on future refinements to ECAT," said William R. Dickson, senior vice president.

MIT does about \$3 million worth of business with both VWR Scientific and Office Depot. However, some departments still use other suppliers, even for products that the partner companies can provide at lower cost.

Since the rollout was announced in a February 4 letter from Mr. Dickson to

employees, the team has expanded ECAT access to additional computer network addresses, permitting departments with their own networks to use ECAT. For example, the Artificial Intelligence Laboratory can now utilize ECAT, and several of the staff are already beginning to place orders.

Mailings of confirmation letters, including a checklist of what's needed to use ECAT and information about a two-hour orientation class, will begin next week. Team members also plan to help users configure their computers for ECAT purchasing. "The team is committed to giving people the help they need to get up and running with ECAT," said Linda Lancaster, team captain.

The vendor representatives in Purchasing will continue to help customers with business issues such as deliveries and back orders, and the Help Desk in Information Systems will take technical support calls.

For more information on ECAT, consult the ECAT home page at: http://web.mit.edu/ecat/ or send e-mail to <ecat@mit.edu>.

Classified Ads

Tech Talk ads are intended for personal and private transactions between members of the MIT community and are not available for commercial use. The Tech Talk staff reserves the right to edit ads and to reject those it deems inappropriate.

INSTRUCTIONS: Ads are limited to one (of about 30 words) per issue and may not be repeated in successive issues. Ads may be resubmitted after skipping a week. Ads/renewals are not accepted via telephone or fax. All must be accompanied by full name and extension (or proof of MIT affiliation).

- E-mail address (return address must be mit.edu): <ttads@mit.edu>
- Interdepartmental/Walk-in address: Calendar Editor, Rm 5-111.

Please note that all Tech Talk ads are provided to TechInfo on the date of publication, which makes them accessible world-wide via the Internet.

All extensions listed below are campus numbers unless otherwise specified, i.e., Dorm, Lincoln, Draper, etc. Celtics vs. Detroit Pistons, Feb. 28, 2 tix, 1st row balc, \$58/pair. Elliot, Linc x2684.

- Canon AE-1 camera w/50mm-1.8, 28mm-2.8, Hanimex 80-200mm-1:4.5, Rokinon 2X tele converter, Speedlight 155A bst offr for all. Peggy, Draper x8-2275, lv mssg.
- Encyclopedia Britannica, full boxed set (26 vols, soft cover), less than 1/2 price. Call 489-1386 eves.
- Dining table (expandable) \$30; 2 director's chairs \$50; futon \$100; desk chair & old shelves, free. <cpkim@mit.edu>, 722-9857 or x3-7145.
- Star Wars "baseball card" sets, Star Wars comics, WWII aviators patch. Call for details, 247-0197.
- Six matched oak chrs w/woven seats, \$300 or bst. Theax3-0009,648-6756or<tpaneth@mit.edu>.
- Skis, K2 Unlimited VO 185 cm w/Saloman 647 bindings \$75; W's Lange ski boots sz 8 1/2-9, \$50; Bauer Rollerblade hockey boot, top line, new \$1,120; lrg dog crate \$50. Call x3-3096.

1994 Honda Civic DX, 2-dr, 70K, camellia red, auto, a/c, pb, ps, one ownr, \$8,995 or bst. Donna x3-0699.

HOUSING

- Cambridge: room for rent in beautiful, lrg, sunny apt w/hdwd flrs, washing mach, porch has 1rm, avail Mar 1, \$400 plus utils, must like dogs. Call x3-0125 days, 576-0425 eves.
- Cape Cod, Wellfleet: 0.6 acre level lot, abuts Natl Seashore, bike trail, mile walk to ocean overlk, beaches nrby, septic design & well, sale by ownr, \$49,900. Greg x3-0949, <gsands@mit.edu>.
- Dedham: Mother Brook condos, 1BR, LR/DR, ~850 s.f., bath/laundry, cent AC/gas heat, htd indr pool, tennis court, deeded prkng, 1st flr, corner unit, historical bldg, \$119.9K. Lv mssg 326-7027.
- Melrose: 6-m cape, 3BR, 2b, desirable Horace Mann area, Irg priv fenced/treed bkyd, 3-season prch, dw/disp, 1 car gar, fplc, skylts, hdwd flrs, \$199K. Cheryl x2-1122, 438-1908, <cmt@mit.edu>.

Somerville, Spring Hill: furnshd sublet, sunny

Intel gives \$500K to MIT labs

Intel Corp. has awarded a \$500,000 equipment grant to MIT's Microsystems Technologies Laboratories (MTL).

"We have recognized for some time the excellent research projects that have been going on here at MTL, and also the high caliber of students within MTL," said Intel Fellow Mark Bohr of Process and Technology Development. "By making this donation, we hope to help MTL stay at the forefront of integrated circuits and semiconductor device research and also to help MTL continue to turn out the very best students in this type of research project."

MTL director Rafael Reif, professor of electrical engineering and computer scence, noted that the award will enable purchase of equipment which "we cannot get from donation, we cannot get at deep discount, and we cannot afford because the price tag is too high." This includes test and metrology equipment which will aid research and teaching and improve MTL's ability to attract the highest caliber students, he said.

The Microsystems Technology Laboratories support facilities for the fabrication and study of small monolithic structures and their use for the implementation of integrated systems from X-ray lenses to VLSI circuits. The microfabrication facilities are open to the entire MIT community as well as researchers from other university or government laboratories.

The facilities are also available to a select group of companies such as Intel which are members of the MTL Microsystems Industrial Group (MIG). In certain instances, they may also be used by non-MIG industrial researchers for noncommercial investigation, particularly for activities complementary to specific faculty research.

Supplementary Medicare open enrollment scheduled

MIT-owned equipment may be disposed of through the Property Office.

Deadline is noon Friday before publication.

FOR SALE

Kitchen table, 2.5' x 5.25', oak trestle, & 2 parson benches w/storage in seat, very gd cond, lrg for my new apt, \$150 or bst offr. Debbie x3-3205 or <dakruz@mit.edu>.

Ladies' Persicurl blk jacket, furlike fabric achvd by the use of delicate embroidery, resmbls Persian lamb, med-sz, rayon lining, short style, \$160 value, lk new, sell for \$30. Rose 776-3748.

Nordic Track Pro, \$375. Call Joan x3-1916 or 942-7105.

Washer & dryer, exc cond, full-sz, Sears Kenmore heavy duty, used, 5 yrs old, \$350 for both (can separate). Call 387-4750.

Toshiba Sub-Notebk, T3400 CT Protege active matrix scr, 486, 33 mghz, 4MG RAM ext dr: 250MG HD: 14.4 modem card, case, sftwre. \$1,000. J. May, Draper x8-2843 or 617-576-5125.

Blackburn Trakstand Wind Trainer (for stationary bicycling), exactly like new, \$120 or bst offr. Call 739-6863.

VEHICLES

1981 Volvo Wagon, 240 DL, standard, reliable, many new parts, great 2nd car, gd for hauling, totally reliable, 204K miles, rust, askg\$1,500. Call 427-1153.

- 1987 Nissan Sentra, 95K, 2-dr sedan, 5-sp, very reliable, new brakes/pipes, exc body, all maint records, \$1,300 or bst. Yifeng x3-3910 or <yifeng@eolos.mit.edu>.
- 1989 Honda Prelude S, 59K miles, 1 ownr, 5-sp manl trans, nw clutch, a/c, exc cond, yrly check-ups, blue book price \$5000+, offr for \$4,500. Call x3-5589, <siu@sunny.mit.edu>.

1990 Geo Storm Gsi, bright yellow, 5-sp, lojack, AM/ FM/cass, FWD, driver's side airbag, exc cond, v reliable & fun, 70K, new muffler, gd maint, lumbar-support front seats, \$4,500. Call x3-0611.

1992 Ford Explorer XLT, 4x4, auto, pwr everything, 58K miles, 100K transferable B-B warr, new trs & shocks, clean, dk blue/silver, \$13,300 or bst. Peter, Draper x8-2439. IBR apt, conv to buses to Kendall & Davis Sqs, avail Apr 15-Sept 15, \$975/mo incl util. Call 625-8302.

Somerville, Porter Sq: 2BR apt, avail 4/1, nr T & shopping, ideal loc for students. a/c, Indry, incl hot water, 1 pkg spc, quiet nbrhd, \$770/ mo. Call 625-8349.

Watertown: Charles River Towers, spac. 2 BR, 2 bath condo, beautiful bldg, pool, pkg, 1st flr, mint cond, great price \$145K. Louise, Draper x8-4612.

Oxford, England: Classic Vict house for rent Jul and/ or Aug '97, 15 min from cent Oxford, 4 BR, 2b, walled garden,£1200(pounds)percalendarmonth inclusive (except tel). Email <rkg@mit.edu>.

WANTED

Good, used but sturdy treadmill, reasonable price. Possible trade for a Nordic Trak Sequoia (new). Call Sharon x3-3494 or <strohon@mitvma.mit.edu>.

Visiting scientists sks furniture & toys for 2 toddlers to buy or lease: high chrs; car seats; sm table and chrs; 3-wheel bikes, swing, sand box, etc. Stefan <haderlei@mit.edu>orx3-2352. The 1997 Medicare Supplement Plans open enrollment will be held from March 3-28. Employees do not need to do anything if they want to remain in their current Medicare supplement plan. Changes made during this period will take effect May 1.

An information packet has been sent to all current participants. If you did not receive a package but think you should have, call the Benefits Office at x3-6151 or send an e-mail request to

Thursday, March 6

Friday, March 7

<benefits-www@mit.edu>.

Employees who are currently enrolled in Medicare supplement plans and those nearing Medicare eligibility are invited to attend one of the seminars listed below. The sessions will provide information on Medicare and the supplement plans available through MIT. After the presentation, representatives of each plan will be available for individual consultation. To reserve a place for you and a guest, call x3-4276.

Medicare Supplement Plan SeminarsDateTimeLocationWednesday, March 51:30-4:30pmFaculty ClubThursday, March 69:30am-12:30pmFaculty Club

 1:30-4:30pm
 Faculty Club

 9:30am-12:30pm
 Faculty Club

 1:30-4:30 pm
 Faculty Club

 9:30am-12:30pm
 Lincoln Lab, S2-180

TheArts

Feb Remainders

26 Weds

Student Clarinet

Advanced Music Performance (AMP) concert by Chris Rohrs '99, clarinet. Schumann, Lutoslawski and Copland with guest pianists Jon Yi '97 and Cathy Labelle (G). 5pm, Killian Hall. (Program repeated at Lincoln Lab, Feb 28, 12noon.)

Down and Dirty (Taking It All Off) Auditions for Dramashop's collective theater piece directed by Assoc Prof Brenda Cotto-Escalera. Bring 1-minute monologue, clothes to move in & any other talents. Sign up outside W16-018. 7-10pm, Kresge Reh Rm B. 253-2908 or ds_officers@mit.edu

27 Thurs

Guitar Duo

Mark Small and Robert Torres. Grieg, Bach, DeFalla and Bellinatti. 12noon, Chapel.

Schnitzer Prize Workshop

How to apply for Schnitzer Prize in the Visual Arts, awarded to registered MIT students, based on a body of work. Applications at the SAA (W20-429), Campus Activities Com-plex W20-500), Office of the Arts (E15-205). 5:30pm, Student Ctr Private Dining Rm 1 & 2. 253-7019

Poetry @ MIT Poet/translators Martha Collins and Carolyne Wright. 7:30pm, Bartos Theater (E15). 253-7894



27-28 Thurs/Fri

Within the Forbidden City Drama in English by Dr. Doris C.J. Chu of Boston's Chinese Cultural Institute: \$8 MIT students, \$10 MIT faculty/staff, \$12 other college students, \$14 advance sale (\$20 at door). 8pm, Kresge Little Theater. 253-7731

28 Fri

authors@mit Series

Assoc Prof of Architecture Ann Pendleton-Jullian, principal architect, Atelier Jullian & Pendelton in Boston, will discuss her book, The Road that is Not a Road and the Open City,

March Arts

1 Sat

East African Faculty Concert Asst Prof James Makubuya and The African Tropical Beat. Instrumental music, song and dance of East Africa. 8pm, Killian Hall.



11 Tues

"Carlo Scarpa: Context and Develop-ment." Talk by Anne-Catrin Schultz, University of Stuttgart, visiting scholar at MIT. 6:30pm, Rm 10-250. 253-7791

12 Weds



2 Sun

Gamelan Galak Tika Featuring a Balinese Monkey Chant specially staged by masked dancemaster I Nyoman Cerita, and a mass "kecak-a-long." \$5, free for children under 12 and with MIT ID. 2pm, Kresge Aud. 253-2826 or email galaktika@mit.edu



5 Weds

Museum Gallery Talk Kinetic sculptor Arthur Ganson on Gestural Engineering: The Sculpture of Arthur Ganson (see All Month right). 12noon, MIT Museum. 253-4444

1.132.24

AMP Piano Jason C. Wong '99, piano. Beethoven, Schumann and Gottschalk. 5pm, Killian Hall. (Program repeated at Lincoln Lab, March 7, 12noon.)

6 Thurs

Chapel Concert Pentamerus Winds. Works of Andriessen, Fine and Barber. 12noon, Chapel.

authors@mit Reading "Meaning in Life: The Harmony of Nature and Spirit." 5:30pm, Humanities Library Reading Rm. 253-5249 or email authors@mit.edu

6-8 Thurs/Sat

Greater Tuna

MITHAS Concert With Buddhadev DasGupta, Calcutta's senior master of the traditional sarod style, \$15, \$12, \$10 at the door only, \$2 discount for MIT students; general admission. 8pm, Killian Hall. 258-7971

"Fresh Meat on Rye"

Improv by Roadkill Buffet with University of Indiana's Pumpernickle. 8pm, Rm TBA. rkb@mit.edu

MIT Symphony Orchestra

David Epstein, conductor. Schubert and Brahms with Andrés Díaz, cello; RoseMary Harbison, violin. \$2 at the door. 8:30pm, Kresge Aud.

18 Tues

Architecture Lecture

"Social Housing in Vienna." Talk by August Sarnitz, director, Otto Wagner Archiv, Vienna. 6:30pm, Rm 10-250. 253-7791

MIT Brass Ensemble

Lawrence Isaacson, director. World premiere of John Berners' Baker House Melodrama, Dukas, Handel and Holst. 8pm, Kresge Aud.

19 Weds

authors@mit

Prof Michael Dertouzos, director, Lab for Computer Science, will discuss his book, What Will Be: How the New World of Information Will Change our Lives, published by HarperEdge. 4pm, Wong Aud. 253-5249 or email authors@mit.edu

AMP Piano

Susan Shi '97, piano. Haydn, Schumann and Schoenberg. 5pm, Killian Hall. (Program repeated at Lincoln Lab, March 17, 12noon.)

20 Thurs

Harpsichord/Viola Concert Prof Marcus Thompson, viola; John Gibbons, harpsichord. 12noon, Chapel.



Martini-In-Transit Reading Poets Rosanne Wasserman and Tomoyuki Iino read from their latest collections of poetry. 7:30pm, Bartos Theater. 253-6475

Opening at Dean's Gallery New England Landscapes: An Interpretation in Pastel by Teresa M. McCue. Opening Reception-4:30-6pm. The Dean's Gallery, Sloan School of Management, E52-466. Show runs through April 30. Hours: Weekdays 9-5pm. 253-9455

Through 29 Sat

MIT TECH TALK = 7

List Visual Arts Ctr Joseph Kosuth. Re-Defining the Context of Art: 1968-97. Project at the LVAC and at venues in Cambridge and Boston: Kosuth questions art's traditional forms and the assumptions surrounding them.

The Shape of Breath. Seattle-based artist Jill Reynolds created this new project using glass and breath to give form to that which is normally invisible and to reflect upon breath as a site of language production.

PORT: Navigating Digital Culture. Thematic exhibition by artists who use the internet as their medium, organized by New York-based collaborative artnetweb. Visitors may participate in interactive real-time performances or observe them. Schedules and descriptions-http://artnetweb.com/port

List Visual Arts Ctr (E15). Hours: T-Th & Weekends 12-6pm; Fri 12-8pm; closed holidays. Curatorial Office Hours-Meet the curatorial staff for informal discussions and questions about art-Weds, 12:30-1:30pm

All Month

MIT Museum

What's So Funny About Science? The Cartoons of Sidney Harris. A hilarious look at unexpected and incongruous moments in science



Maps from the Age of Atlases. Rare maps from the MIT Museum's Hart Nautical Collections.

Ongoing Exhibits: Gestural

Engineering: The Sculpture of Arthur Ganson; Lightforest: The Holographic Rainforest; Holography: Artists and Inventors; The MIT Hall of Hacks; Light Sculptures by Bill Parker; Math in 3D: Geometric Sculptures by Morton G. Bradley, Jr.; MathSpace.



MIT Museum, 265 Mass Ave. Hours shortened to 12-5pm, Tuesday-Sunday through March 21. Admission \$3; \$1 students, srs & children 12 & under; free for members of the MIT community with valid ID. 253-4444

Compton Gallery

On the Surface of Things: An Exhibition of Images in Science and Engineering Photographs. MIT Artist-in-Residence Felice Frankel's work shows recent research in a variety of disciplines at MIT and other institutions. Compton Gallery. Weekdays: 9-5. 253-4444



Architecture Lecture

Always Room for Cello AMP recital by Peter Jung '99, cello.

Beethoven, Schumann and Shostakovich. With Jon Yi '97, piano. 5pm, Killian Hall. (Program repeated at Lincoln Lab, March 11, 12noon.)



Through 12 Weds

Dean's Gallery Exhibit Optimism: A 3-D Experience: Sculptures by Frances Pratt. The Dean's Gallery, Sloan School of Management, E52-466. Weekdays 9-5pm. 253-9455

13 Thurs

Chapel Concert

Michele Pinet, harp. Handel, Haydn, Debussy, Prokofieff and Joplin. 12 noon, Chapel.

13-15 Thurs/Sat

King John

Shakespeare Ensemble show directed by visiting lecturer and drama coach, Tina Packer of Shakespeare & Co. \$7, \$5 students/seniors, \$1 off/ticket for groups of 10 or more. 8pm, Student Ctr Sala de Puerto Rico. 253-2903 or email ensemble@mit.edu

14 Fri

Arts Grant Deadline Final of three deadlines for 1996-97 Council for the Arts Grants funding. Forms available at the Office of the Arts, E15-205, 253-4005

Vocal Scholarship Recital

Soprano Jenny Sue Smith Lanni (G).

Ritoque, Chile. 6pm, Rm 14E-304 253-5249 or email authors@mit.edu



Faculty Concert Sr Lecturer David Deveau, piano. Virtuoso works of Schubert and Brahms. 8pm, Kresge Aud.

Student workshop production performed by Andrew Berger (G) and John de Guzman '97. 8pm, Kresge Rehearsal Rm B. 253-2877

8 Sat

Jazz College Night

Ensembles from Boston University, Westfield State, Berklee College and the MIT Festival Jazz Ensemble. James O'Dell, director. Free in advance; \$2 at door. 7pm, Kresge Aud.

9 Sun

MITHAS Concert

MIT Heritage of the Arts of South Asia, with Neyveli Santanagopalan, Carnatic vocalist of South India. \$15, \$12, \$10 at the door only, \$2 discount for MIT students. 3pm, Wong Aud (E51, Tang Ctr). 258-7971

Concert Band John Corley, director. 8pm, Kresge Aud.

Mohan Gurunathan '97 and Charles Shadle, piano. Selections from Harbison's Marabai Songs, Rossini's La Regata Veneziana and songs by Mozart, Berlioz, Saint-Saëns, Massenet and others. 8pm, Killian Hall.

15 Sat

Poetry Night at Wellesley 'Colored Girls with Pens: Writing by Women of Color"- Readings by Carmen Abrego, founder of the International Women's Dance in Chicago; Nuar Alsadir, 1995-96 Writing Fellow at Provincetown's Fine Arts Work Ctr; and Sharan Strange, whose poems have been exhibited at New York City's Whitney Museum

and Boston's Institute of Contemporary Art. 7:30pm, Wellesley TZE House (Society Rd, Wellesley). 253-5683



20-22 Thurs/Sat

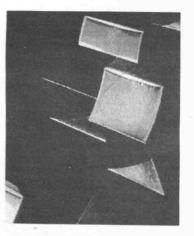
King John Closes See 13-15 Thurs/Sat above.

21 Fri

North Indian Classical Music MITHAS with Bharati Nanavati, khyal (vocal) and Sunil Banerjee, tabla. \$15, \$12, \$10 at the door only, \$2 discount for MIT students; general admission. 8pm, Killian Hall. 258-7971



Folk Dance with Live Music MIT Folk Dance Club international dancing with music by the Cambridge Folk Orchestra. MIT/Wellesley students free, \$.25 others. 7-11pm, Student Ctr Sala de Puerto Rico. 253-FOLK or email fdc-request@mit.edu



All events are free unless prices are noted. All concerts: 253-9800 unless otherwise noted MIT Arts Hotline: 253-ARTS. MIT Arts Web: http://web.mit.edu/arts/www/ Month-at-a-Glance is produced by the MIT Office of the Arts (253-4003) and ARTSNET. Design and production: Metcalf Design.

Black physics students to hold meeting at MIT

(continued from page 1)

the University of California at Davis. "I was the only black physics student I knew," recalled Mr. Matthews, who grew up in Berkeley, CA. "It was an eye-opening experience."

President Charles M. Vest and Professor Ernest J. Moniz, head of the Department of Physics, will welcome about 200 African-American graduate and undergraduate physics students to the campus on Friday morning, Feb. 28, to open the conference.

That afternoon, two distinguished physicists, University of Maryland Professor Sylvester J. Gates (SBs '73, PhD '77) and Dr. James M. Turner (PhD '71) of the Department of Energy, will lead a panel discussion on the theme of the conference, "Physics: The Possibilities Are Endless.

Nonacademic recruiters offering employment possibilities at the conference will include the Hughes Space and Communications Group, the Lockheed Martin Energy Research Corp., Corning Inc. and Los Alamos National Laboratory. College recruiters from George Mason, Alabama A&M, Fisk, Florida A&M, Penn State, Stanford, Johns Hopkins, the University of California at Berkeley, Kentucky and the Princeton Plasma Physics Laboratory are also scheduled to attend.

After the students tour the MIT laboratories on Friday afternoon, Dr. Jackson (SB '68, PhD '73), will deliver the keynote address at dinner. The first African-American woman to receive a doctorate in theoretical solid state physics from MIT, she has been the chair of the Nuclear Regulatory Commission since July 1995.

The closing address at dinner on Saturday, March I will be delivered by Walter Massey, president of Morehouse College in Atlanta.

This year's conference was organized by a committee of MIT undergraduate and graduate students. In addition to Mr. Matthews, members of the committee are Sandra Brown, Marta Dark, Kimani Stancil, Grum Teklamariam, Alison Morgan, Alicia Jillian Hardy, David Hackett, Tehani Finch, Julio Dagraca, Pamela Blakeslee and Lyndie Williamson.

The conference is sponsored in part by NASA Goddard, NASA and the Department of Energy.

For more information, visit the Web page at <http://www.mit.edu/people/ mldark/ncbps.html>.

Water world



Paul Levy, adjunct professor of urban studies and planning, brought students from his Solving the Infrastructure Crisis class out to the Sudbury reservoir in Southborough for a look at the MWRA transmissions section and water quality lab. Along with providing a first-hand look at where water goes before coming out of the tap, he drew students' attention to the solid work by masons who constructed the nearby dam, noting how well it has held up over time. Photo by Donna Coveney

Institute to refurbish 33 classrooms

seat classroom. Seven classrooms in

Building 56, including 70-seat and 60-

(continued from page 1) slide machines and other equipment. Lecturers will have audiovisual hookups to acccomodate a desktop computer in every classroom. Two will be wired for personal computers or Macintoshes at every seat.

Impetus for the renovation campaign was supplied by Professor Leigh H. Royden, associate chair of the faculty, who broached the issue at a meeting in September. She had taught freshman physics in Rm 5-233, a classic "workhorse" classroom where "you had to shout to be heard" over the traffic noise on Massachusetts Avenue.

Realizing the effect that such bleak surroundings had on the students in their first exposure to MIT academics, Professor Royden said, "I became passionate about the classroom issue." She quickly discovered that she wasn't alone. 'You know how contentious the MIT faculty are, yet every time I mentioned it, everybody agreed-we had to something about those classrooms," she added.

ON-SITE MEETING

The clincher, Professor Royden said, was a committee meeting in Rm 5-233 at which the participants could not communicate over the street noise without shouting. "That brought it home," she said.

As a result of her urging, classroom renovations were given high priority in setting an agenda for the fall semester. In addition to Professors Bacow and Royden, key supporters included Rosalind Williams, dean of undergraduate education; Associate Professor Charles Stewart, head of the Committee on Undergraduate Programs; and Associate Dean Margaret S. Enders.

Task force is sending out

ll senior faculty will receive questionnaires from the Task Force on Student Life and Learning this week seeking widespread input in establishing the key issues facing the Institute in the next century

In addition, the group's co-chair, Professor of Chemistry Robert J. Silbey, said at last Wednesday's faculty meeting that all members of the Task Force would spend at least one night in a dormitory "to experience what happens from midnight to 7am."

Professor Silbey urged all faculty to respond to the questionnaire and communicate with the Task Force, formally and informally. "Any way we can get a response, we'll take them and listen to them," he said. "Stop us in the hallways and talk to us."

Reporting on the Task Force's progress, which includes a brainstorming session with junior faculty and a survey of alumni/ae, Professor Silbey noted that a diverse student body with different career ambitions might require changes in the core education. For instance, he said, 20 percent of the class of '97 plans to attend medical school, while a large number of their classmates plan careers in finance and in consulting.

He said alumni/ae were pleased with the problem-solving skills they acquired

seat lecture halls, were brought on-line

for the spring semester.

'authors@mit' kicks off new season of readings

he MIT Press Bookstore and the The MIT Press BOOKSTOP ies have announced their second full season of talks and readings in the "authors@mit" series.

The series begins on Thursday, Feb. 27 at 6pm in Rm 14E-304 with a talk and slide show presentation by Ann Pendleton-Jullian, associate professor of architecture. She will speak about her new MIT Press book entitled The Road That Is Not a Road and the Open City, Ritoque, Chile. The event is free and open to the public. Refreshments will be served.

In her book, Professor Pendleton-Jullian tells the story of the Open City, a designed city still in formation that has no master plan-a hauntingly beautiful site resulting from collaboration between painters, poets, architects and engineers who are more interested in process than the end result. They are influenced by surrealism, the legacy of LeCorbusier and other modern utopians, as well as the heritage of South American landscape and culture.

Next on the series schedule is a talk by Professor of Philosophy Irving Singer, author of the trilogy Meaning in Life (Johns Hopkins University Press), on Thursday, March 6 at 5:30pm in the Humanities Library reading room. On Wednesday, March 19 at 4pm, Michael Dertouzos, director of the Laboratory for Computer Science, will give a lecture to launch his new book, What Will Be: How the New World of Information Will Change Our Lives (HarperEdge). This event is co-sponsored by the Industrial Liaison Program as part of its "Infinite Corridors: Research Perspectives from MIT" video series produced by the Center for Advanced Educational Services.

versity Press), a moving memoir about her friend and colleague's struggle with AIDS (April 3). Also in the series: Professor of Economics Paul Krugman on Pop Internationalism (April 10), Canadian scholar Robert Barsky on his biography Noam Chomsky: A Life of Dissent (April 17), and Dutch evolutionary biologist Tijs Goldschmidt on Darwin's Dreampond: Drama in Lake Victoria (April 24).

The series will culminate with a day-long symposium to celebrate the work of Professor Stanford Anderson, chair of the Department of Architecture, on May 3. MIT Press this spring will publish a tribute to Professor Anderson, The Education of an Architect. Locations of these later events will be announced. Signed copies of books will be available at each event.

The series is being organized by Teresa Tobin, Dewey and Humanities librarian, and Jeremy Grainger, MIT Press Bookstore manager. "We feel tremendously encouraged by the overflow crowds we had at our two events during IAP," Ms. Tobin said. A celebration of Hal's Legacy (MIT Press) on the birthday of the computer anti-hero of the film and novel 2001: A Space Odyssey, and a theramin concert by MIT Press employee James Coleman to celebrate publication of a special issue of the MIT Press' Leonardo Music Journal, filled Wong Auditorium and Killian Hall last month. The series was inaugurated last fall. A full schedule is available on the Web at <http://mitpress.mit. edu/ bookstore/events. html> or-by e-mail at <authors@ mit.edu>. Those interested can also subscribe to the Bookstore's e-mail newsletter by emailing <listserv@mitvma.mit.edu> with the body of the message reading BOOKNEWS "SUBscribe yourfull_name" (no quotes).

questionnaire to faculty at MIT but were less happy with the contribution the Institute made to their writing ability and self-esteem. That disparity should be resolved, Professor

> Silbey said Noting the dramatic changes at MIT in the past five years and the deep commitment to undergraduate education, President Charles M. Vest said, We need to communicate better."

> Earlier in the meeting, Professor Samuel J. Keyser reported that a survey of 2,730 staff and faculty indicated that reports of harassment are declining, and that most complaints involve general mistreatment and sexual harassment. "In most cases, it's offensive language," said Dr. Keyser, a professor of linguistics and philosophy. "There are very few cases of touching.

> Professor Jed Z. Buchwald, chair of the Committee on Discipline, said disciplinary cases had decreased in the past three academic years, with 21 complaints resulting in nine expulsions, two suspensions, four formal probations, one informal probation, one degree revocation and two reprimands. Three cases have been filed so far this year.

Dean for Student Life Margaret R. Bates said disciplinary actions were about the same as last year.

In April, former Gay Community News editor Amy Hoffman will read from Hospital Time (Duke Uni-

Blue Cross representative to visit

B lue Cross and Blue Shield will hold office appointments at the Benefits Office in Rm E19-411 for employees and retirees enrolled in Blue Choice, Medex, and Managed Blue for Seniors on Friday, March 7.

The Benefits Office has arranged these office hours to allow plan members to meet directly with a plan representative to resolve customer service issues. This is also an opportunity for new Blue Choice members to learn more about how to use their plan.

If you have been unsuccessful in resolving an issue by first calling the plan's customer service representatives or if you are interested in learning more about Blue Choice, call x8-7489 to schedule an appointment to meet with a representative in the Benefits Office.

Professor Bacow broached the sub-

ject with President Charles M. Vest, who gave enthusiastic support. A working group consisting of Dean Enders, Professor Stewart, Associate Planning Officer Michael K. Owu, Associate Registrar Mary R. Callahan and David W. Myers, an architect and the manager of design services for the design and construction section of Physical Plant, identified the classrooms, developed a renovation plan and created a budget. Dean Williams made a formal proposal to the Committee on Renovations and Space Planning. The project was approved last month.

"Everybody came together and supported it," said Professor Bacow. "It's a wonderful example of faculty and administration working together to do something good for the students."

Last summer, eight classrooms and lecture halls were renovated in Building 51. In addition, the renovation of Building E56 included the construction of a 55-seat lecture hall and a 20-

Commuter news notes

(continued from page 1) NEW PENALTY FOR GATE DESTRUCTION

Any MIT-affiliated person involved in the deliberate destruction of MIT parking access control gates may be required to make a restitution to the Institute. If they refuse to comply, their parking privileges may be taken away. Those involved have the right to appeal to the Violation Appeals Committee within 30 days of the violation.

AUDREY STREET PARKING DESIGNATION

New parking signs were installed on Audrey Street recently. Previously there were no signs indicating whether parking was allowed. The new signs indicate that MIT permit parking is allowed on both sides of the street; a Westgate permit is needed for the east side and a North permit is needed for the west side. Any questions concerning parking signs or designations can be sent to <mitparking@mit.edu>.

PARKING GATES FOR DEACON LOT

New parking access control gates have been installed in the Deacon lot near the MIT Medical Department. The gates will begin 24-hour service on Monday, March 3. Employees with either a Deacon Lot or East area Occasional parking permit may park in the Deacon lot. Occasional parking for the East area will only be available in the Deacon and Sloan lots, as the Hayward lot will no longer accept occasional parking. Regular commuters with an East permit may no longer park in the Deacon lot after March 3. East permit holders may use the CRA lot (corner of Ames and Main Streets) if all the other lots are full.