Massachusetts Institute of Technology

April 2, 1986 Volume 30, Number 26

Faculty meeting

A special meeting of the faculty will be held Thursday, April 3, at 4pm in Compton Hall (Rm 26-100) to consider the following resolution proposed by Professor Kalonji and seconded at the regular March meeting of the faculty.

"We, the MIT faculty, regret the arrest of the 8 students on the Kresge Oval on Friday, March 14. We urge the MIT ad-ministration to take all feasible steps to persuade the Commonwealth of Massachusetts to terminate the prosecution of all these cases and to expunge any resulting criminal records. We also urge the administration to reimburse the students for the court costs and legal expenses incurred in these cases.'

Please note the unusual room and time for the meeting.

Awards deadline

Friday, April 4, is the deadline for filing nominations for Institute-wide awards. Descriptions of the various awards were published in this space March 5 and are available from the Awards Committee, Rm 7-143, x3-3561.

Arts for all

The Museum of Fine Arts is inviting students and everybody else at MIT to a party, next Wednesday night (April 9), 7 to 9:30. It's "The Event," when the ven-erable MFA is host to 15 colleges and universities in Greater Boston. Admission is by valid current ID. Some of MIT's student music groups will help provide entertainment, including some of our pianists who will alternate performing on a piano set up in the Museum's beautiful baroque rotunda.

Audit slot open

Interested members of the MIT Employees Federal Credit Union are invited to apply to fill a vacancy on the Supervisory Audit Committee. This five member committee meets at the discretion of the Chairman and is responsible for the audits of the Credit Unions books. A background in or knowledge of accounting is required.

Please send applications in writing to the Credit Union Office, attention of Leo Green, manager. Room E19-437 no later than April 15.

Women in poverty

Economics Professor Teresa Amott of Wellesley College will address "Women in Poverty: Myth and Reality" Monday, April 7, at noon in the Emma Rogers Room (10-340). Professor Amott is a member of the Economic Literacy Pro-

Crime prevention visits Last year MIT lost \$83,381.46 in prop-erty thefts, including \$34,506 in computers The Campus Police this week are launching a door-to-door campaign to alert the and computer components and \$14,213.68

community to current crime problems on in cash. In their visits Officers Doyle and Roberts will emphasize protection of com-Officers Gerald Doyle and Raymond Roberts will be visiting individual offices puter equipment and petty cash funds. and laboratories to distribute crime prev-

Personal losses to theft during 1985 amounted to more than \$13,000 in offices and labs and more than \$21,000 in residence halls. The Campus Police recovered \$25,566 in property in all three categories last year.

20 students win NSF fellowships

Twenty MIT undergraduates are among 505 outstanding college students who have been awarded fellowships by the National Science Foundation (NSF) for graduate study in the natural and social sciences, mathematics and engineering.

ention pamphlets and discuss recent crimes

that have occurred in each specific area.

The officers will also describe Campus

Police services available, such as Opera-

tion Identification, emergency telephone

information and the night escort service.

the campus.

Seventy-one fellowship recipients have noted their intention to do graduate work at MIT. This makes MIT the second largest group in this category. The leader, Stanford University, is designated for graduate work by 74 students. Last year MIT was first, while Stanford came in second.

In addition, four minority fellows are due to begin graduate work here in the fall through the NSF's Minority Graduate Fellowship program.

The MIT students who received NSF Graduate Fellowships make up the third largest group from any single university. Harvard is first with 37, followed by Princeton University with 23.

The NSF fellowships provide a stipend of \$11,100 per year for full-time graduate study. An annual cost-of-education allowance of \$5,250 is also provided by NSF in lieu of all tuition fees to the US institution selected by each Fellow. The cost-of-education allowance for US institutions is a reduction from the previously announced level of \$6,000 as a result of the deficit reduction provisions of the Gramm-Rudman-Hollings Act.

which they are not receiving their fellowship stipends.

Nearly 4,900 students submitted applications in the nationwide competition for NSF Graduate Fellowships, which are awarded on the basis of merit.

In total, the fellows come from 45 states and the District of Columbia. Of the 505 award offers, 173 were made to women. By scientific discipline, the distribution of awards was as follows: 107 in engineering; 18 in mathematics; 9 in applications of mathematics; 33 in computer science; 40 in physics and astronomy; 41 in chemistry; 26 in earth sciences; 134 in biological sciences, including biochemistry; and 97 in the social sciences and psychology.

In addition to the NSF Graduate Fellowship awards offered this year, 1,142 individuals who received fellowship awards in previous years are eligible to continue their study during the 1986-87 fellowship year.

Tech Show to open

Tech Show 1986, the annual student-written, student-directed and student-produced musiwill be presented during the next two weekends in the Sala de Puerto Rico of the Student Center. This year's version, written and scored by Julio Friedman '88, involves a group of students who go camping for a couple of days and find danger and intrigue in the forest. Described as a light-hearted comedy, it will play April 4-5 and April 11-12, at 8pm. Tickets: \$6 general, \$5 MIT staff, \$4 senior citizens and outside students, \$3 MIT students. Information: x3-6294

NAE elects 5 from faculty 9 other alumni

Five members of the MIT faculty-four of them alumni-have been elected to membership in the National Academy of Engineering NAE). They are:

Professor H. Kent Bowen, Department of Electrical Engineering and Computer Science and Department of Materials Science and Engineering. He is Ford Professor of Engineering and director of the Manufacturing and Processing Systems Program.

Professor Chiang C. Mei, Department of

Civil Engineering. Professor Joel Moses, head of the Department of Electrical Engineering and Computer Science.

Professor Kenneth N. Stevens, Department of Electrical Engineering and Computer Science, the Clarence LaBel Professor.

Professor Daniel I.C. Wang, Department of Chemical Engineering and Department of Applied Biological Sciences, director, Biotechnology Center.

Professors Bowen (1971), Moses (1967), Stevens (1952) and Wang (1959) are MIT alumni.

The elections bring to 83 the number of MIT faculty and staff who are members of the NAE. The Academy currently has 1,289 members

The following citations were issued by the Academy:

Professor Bowen: For leadership and innovative developments in the field of advanced ceramics.

Professor Mei: For application of the theories of wave hydrodynamics and elasticity to problems in coastal and ocean engineering.

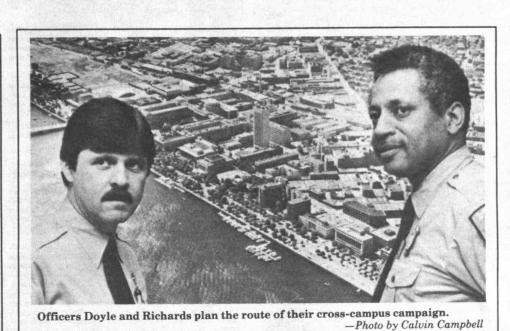
Professor Moses: For pioneering accomplishments in symbolic algebraic manipulations by computer and for outstanding leadership in engineering education.

Professor Stevens: For acclaimed advances in deciphering the mysteries of speech recognition and production, and for leadership of a distinguished speech center.

Professor Wang: For basic contributions to the field of biotechnology resulting in improved control of bioprocesses and recovery of biomaterials.

Nine other MIT alumni were elected to the NAE. They are David Atlas (1951), senior research associate, University of Maryland; (continued on page 8)





lect for Women.

New date

The brown-bag lunch session on Conference Planning at MIT has been rescheduled on Thursday, April 24, in the Marlar Lounge (Rm 37-252). The session is part of the Careers at MIT series. Speakers for Conference Planning are:

-Alberta Dawson of the Sponsored Research Technical Staff at the Plasma Fusion Center.

-Barbara Dullea, director of operations, Conference and Seminar Office in the Center for Advanced Engineering Study.

-Gayle Fitzgerald, coordinator of conference services, Special Events Office of Campus Information Services.

Joseph Martori, associate secretary, Alumni Association.

The MIT Medical Department is circulating a questionnaire to randomly chosen members of the community. The survey is part of a graduate student intern's research project. The student and the Medical Department will appreciate prompt return of the completed surveys.

Each fellowship is awarded for three years of graduate study. The fellowships may be used over a five-year period to permit students to incorporate teaching or research assistantships into their education during periods in

Setting the facts straight

When we listed some examples of the kind of facts about MIT the News Office is seeking for its quasquicentennial project a couple of issues ago, we missed on a couple of them. Fortunately, people in the community have set us straight, to wit:

-MIT alumnus Daniel Chester French was not the sculptor of the Lexington Minute Man. He sculpted the Concord Minute Man, and also, by the way, the statue of John Harvard that stands in Harvard Yard. Sculptor of the Lexington Minute Man was Henry Hudson Kitson.

Baker House is not Alvar Aalto's only building in this country. The noted Finnish architect-whose work is now on exhibit in Hayden Gallery-also designed Mount Angel Seminary in St. Benedict, Ore

We also asked for members of the community to send us more facts so that we can build a collection of 125 interesting nuggets of information about MIT to send to selected communicators across the nation. Alas, so far we haven't received very many but we are checking the ones we have received.

Please send us more facts. Mail them, with your name and extension, please, to MIT Facts, Rm 5-111.

Professor Franco Modigliani, 1985 Nobel Laureate in economics, gives the first of two Killian Award lectures today (April 2) at 4:30pm in Kresge Auditorium. The second will be given Wednesday, April 9, at 4:30pm in Huntington Hall (Rm 10-250). Both lectures will explore aspects of the "Life Cycle Hypothesis of Savings," one of the theories that gained him the Nobel Prize. They are open to the MIT community.

INSTITUTE NOTICES

Open to publi Open to MIT Community only
Open to members only

Announcements

amination Schedules - All students should obtain ex-amination schedule at Information Ctr, Rm 7-121. Exams not listed, or a conflict in exams (two in the same period) must be reported to the Schedules Office, Rm E19-338, Fri, April 18, 1986.

Medical School Applicants '87 - Meeting on the Application Process, Thurs, April 10, 10am, Rm 4-370. Details will be discussed about services and procedures of the Preprofessional Advising Office. Info: Ann, x3-4737 or come by Rm 12-170.

John Asinari Award for Undergraduate Research in the Life Sciences - For undergraduates in Course VII, VII-A and VII-B. Deadline: April 25. For details see Tom Lynch, x3-4711, Rm 56-524.

International Careers Forum - UN Association of Greater Boston/Office of International Student Affairs/Office of Career Services Forum, April 5, 8:30am-5pm, Rm 26-100. Explore careers in the international finance, business, law, health, etc. Register by picking up registration form at Office of Career Services, Rm 12-170.

Dance Workshop Open Meeting** - Come meet the officers ning activities (concert, elections, bake sale and discuss upco etc), Wed, April 2, 5pm, DuPont Staff Rm (across from T-Club Lounge).

Information Services Computing Courses and Seminars** - FEE TRAINING COURSES: Introduction to the IBM PC, April 14, 9-5pm, American Institute of Banking, Charles River Plaza, Boston - Register by 12noon, April 7; Intermediate Plaza, Boston – Register by 12noon, April 7; Intermediate DOS: the IBM PC Disk Operating System, April 15, 9-1pm, American Institute of Banking, Charles River Plaza, Boston – Register by 12noon, April 7; Introduction to Lotus 1-23, April 22-23, 9-5pm, American Institute of Banking, Charles River Plaza, Boston - Register by 12noon, April 14; Advanced Lotus Plaza, Boston - Register by Iznoon, April 14, Auvanced Data 1-2-3, May 8-9, 9-5-5m, American Institute of Banking, Charles River Plaza, Boston - Register by 12noon, April 28; Introduc-tion to Symphony, \$DASOIMay 1-2, 9-5pm, American In-stitute of Banking, Charles River Plaza, Boston - Register by 12noon, April 23; Introduction to Word Processing on Different T. April 17, 200 (90) (5-st carries of a section) and DECmate II, April 15, 17, 22, 29 (first series of 4 sessions) and May 6, 8, 13, 15 (second series), 9-12noon, Rm 11-401 – Register by 12noon, April 7 for first series, and 12noon, April 21 for second series; Advanced Word Processing on DECmate II, April 15 and 17, 14pm, Rm 11401 – Register by 12noon, April 7; Introduction to Multiplan, April 22 and 29, 14pm, Rm 11-401 - Register by 12noon, April 14. Payment required at time of registration, Rm 11-315; MIT ID required to avoid pay-ing maximum fee. Some courses have prerequisites; questions about registration, call Joan Bubluski, x3-1744.

Advisory Committee on Shareholder Responsibility (ACSR) Meeting** - April 2, 4pm, Rm 10-300, to discuss a number of proxy questions of several firms in which the In-stitute is a shareholder. For further information, contact the Committee secretary, Walter Milne, Rm 5-208, x3-5278.

MITOC White Water Canoeing Class** - April 12-13, Wellesley/Cohasset; April 20, Saco; May 3-4, Farmington (limit 6); June 14, Maine. You must know how to swim. Approx cost, \$35 (includes transportation). Contact Bruce McKenzie, or official 396-2733.

Serials in the MIT Libraries, 27th Ed - Microfiche listing published three times a year, of approximately 22,000 titles, in-cludes information on holdings, dates, call numbers, and title changes. The 27th edition contains over 100 new titles and is published in two sections: 1) alphabetical list (8 fiche); 2) keyword index (8 fiche). *Preparent required* Price: \$20; \$5/MIT staff & students. Send check payable to MIT to Office of the Director, Rm 14S-216.

Free Museum of Science Admission for MIT Students With MIT student ID, provided by MIT chapter of Tau Beta Pi, the Engineering National Honor Fraternity. Also, reduced ad-mission to special exhibits.

MIT Hunger Drive Food Drive - We need non-perishable, unopened foods for Boston's less fortunate. Ongoing collection all day and night at drop-off boxes in Lobby 7, Walker, McGregor

Arts Hotline - Recorded information on all arts events at MIT may be obtained by dialing x3-ARTS. Material is updated every Monday morning.

Nightline** - a student-run hotline open every evening of the

naments monthly. Handicap game, 3rd Tues every month. Info call Gary Schwartz, x8-2459 Draper, or Mark Dulcey, 272-8428. Admission: \$1/students, \$2/non-students.

MIT Outing Club* - Camping, cycling, climbing, canoeing, cabins: meets M/Th, 5-6pm, Student Center Rm 461. Also, see our bulletin board in "Infinite Corridor" next to Athena.

MIT Table Tennis Club** - Meets Fri, 8-10pm; Sat, 6pm, T-Club Lounge. Info: Hoang Do, x3-2843.

MIT Go Club** - Meets M/Th, 5-7pm, NE43 3rd fir Playroom. Play the ancient oriental game of skill. Knock to get in if the door is locked.

MIT Hobby Shop^{**} - Complete supervised facilities for wood-working and metalworking, Rm W31-031, M-F, 10am-6pm; Wed, 10am-9pm. Fees: \$15/term students; \$25/term community. Info, x3-4343.

MIT Yoga Club* - Rejuvenate your mind and body with Kundalini Yoga, the science of awareness, M.T.W. 5:15pm, Burton Dining Hall. Beginners welcome. Th Seminar Class with Dr. Gurucharan Singh Khalsa, 5pm, Rm 24-624. Info: Fred Martin or Jeff Tollaksen, 247-0506 or x3-3157.

MIT Aikido Club** - meets Mon-Fri, 5:30pm, DuPont exercise room. Aikido is a non-competitive Japanese martial discipline. Beginners welcome

MIT Wu Tang Club* - teaches northern Chinese kung fu, Tues & Thurs, 8pm, Burton Dining Hall; Sat, 10am, Athletic Center. Beginners welcome. For info call Meilin Wong, x5-8713 dorm.

MIT Tae Kwon Do Club** - Tae Kwon Do is a Korean mar-tial art. Meets Sun, 4pm, TClub Lounge; M/W, 6pm, Burton Dining Hall; Fri, 6pm, TClub Lounge. For info call In Ho Kim, 266-2827.

MIT Wonhwa-do Club⁹ - A synthesis of karate-do-type and judo-type martial arts. Meets MWF, 7-8:30pm, DuPont Exercise Rm. Beginners welcome. Info: Victor Lin, x5-8264 dorm or Karl Gemperli, 536-1300.

Scuba Club** - The club sponsors dives throughout the term. Call scuba locker (x3-1551) for info and equipment rentals. For more info contact Dave Summa, x3-6464 or Mike Fox 492-4407.

MIT Guild of Bell Ringers[®] - meets Mondays, 6:30-9pm, 2nd floor Lobby 7, for change ringing on handbells. We also ring the tower bells at Old North Church. Beginners are welcome. Contact Steve Costenoble, x3-3664 for more information.

Religious Activities

The Chapel is open for private meditation 7am-11pm daily.

Christian Science Organization at MIT* - Weekly Testimony Meeting, Thurs, 5:45pm, Rm 4-145

Tech Catholic Community* - Sun Mass: 9am, 12noon, & 5pm; T/Th, 5:05pm; Fri, 12:05pm. All services in MIT Chapel. Morning Prayer: M-F, 8:15am, Chapel Basement. Bible Study: Sun, 10:35am, Ashdown Hulsizer Rm & Tues, 8pm, Chaplaincy Library. Chaplaincy Office: x3-2981.

MIT Hillel* - Fri, April 4: Conservative/Reform Services 5:30pm, Hillel (W2a); Orthodox Services, 5:45pm, call x3-2982 for location; Shabbat Dinner, 6:45pm, Kosher Kitchen, Rm 50-007. Paid dinner reservations due April 3; \$6.50 in validine or cash at Hillel. Special Zionist Shabbaton at Brandeis, April 4-5; information and applications at Hillel. **Passover** Seder Reservations due by April 11. Sign up and pay at Hillel or at the Passover Booth in Lobby 10, April 8-9.

Lutheran Ministry and Episcopal Ministry** - Weekly service of Holy Communion: Wed, 5:10pm, MIT Chapel. Supper following at 312 Memorial Drive. For further info, call x3-2325/2983.

Baptist Chapel[•] - Baptist Student Fellowship Services, Suns, 7pm, MIT Chapel.

MIT Islamic Society* - Daily prayers, Ashdown House (base-ment), 5 times a day. Call x5-9749 dorm, for schedule. Friday prayer, Ashdown House 12:30-1pm, Khutba starts at 12:30pm, ngregation at 12:55pm.

Meditation and Discourse on the Bhagavad Gita* - Swami Sarvagatananda, MIT Vedanta Society/Ramakrishna Vedanta Society of Boston, meets Fridays through May 23, 5:15pm, MIT Chapel.

United Christian Fellowship** - MIT Chapter of Inter-Varsity Christian Fellowship, weekly meetings: large group for worship and sharing from God's word, Fri, 7pm, Student Ctr Mezzanine or Ctr Lounge; small group meetings for Bible Study and sup-port, weekly at different times. For more info, call Chiu-Oan, port, weekly a x5-6123 dorm

MIT Graduate Christian Fellowship* - Come meet other Christian faculty, staff and grad students: weekly lunch gather-ings, Weds, 11:55-12:55, Student Ctr Twenty Chimneys; info: John Ivan, x3-3880. A fellowship group also meets for a time of prayer and sharing for faculty, staff and graduate students in Sloan School, Thurs, 12noon, Rm E51-024. Contact Andy Hamlin, 926-8472.

MIT Seekers Christian Fellowship* - Park Street Church Seekers Teaching and Worship Time, Sundays, 9:15am, enjoy our biblical teaching, worship and sharing at Park Street Church, right in front of the Park Street T stop. MIT Seekers leave from McCormick at 8:30am. Come join us

Campus Crusade for Christ** - Family time, 7:15pm, Fri, eves, Rm 37-252. Fellowship, scripture teaching, prayer, singing, refreshments & fun. Tues, prayer time, 7:30-9am, W20-441, Stu-dent Center. Call x5-9153 dorm.

Lincoln Laboratory Noon Bible Studies* - Tues & Thurs, Kiln Brook III, Rm 239. Annie Lescard, x2899 Linc.

Morning Bible Studies - Fri, 7:30-8:30am, L-217. Ed Bayliss, x3456 Linc.

Advanced Micro Devices in Sunnyvale, CA has two job openings for a technical sales engineer and product marketing engineer. These positions may involve temporary assignment in Japan quire fluency in Japanese and re

Computer Engineering and Consulting Ltd seeks a graduate who wants to work in Japan and is bilingual in Japanese and English.

Intergovernmental Committee for Migration has sent us their updated list of Jobs in Africa and Jobs in Latin America. These jobs are meant for graduates who would like to return to their home countries.

Proctor and Gamble Commercial Company in Puerto Rico seeks graduates who are residents of Puerto Rico and are interested in opportunities in advertising, sales, finance and accounting, distribution and management systems, and personnel memory and the systems of the systems of the system of the s

The John Swire and Sons (H.K.) Ltd in Hong Kong seeks graduates from Hong Kong who would like to return home. The Swire Group operates a Graduate Management Trainee Scheme as part of its management development program. The program is aimed at students who would like to pursue a career in commerce or industry.

Texas Instruments in Japan has immediate openings for Japanese students studying in this country or students who can obtain working visas in Japan. The opportunities are in the semiconductor group and materials and controls group.

The Union Bank of Switzerland - Singapore branch offers Singaporeans or Malaysians the opportunity to work in the field of foreign exchange and securities trading. They seek students in financial disciplines, such as finance and economics who have good quantitative skills.

The University of Toronto/Toronto General Hopital has a research position available in orthopaedic biomechanics. Candidate should have a Master's degree with research experience in this field.

Internships

The following is the list of internships received this week. For more information please see the Internship Information notebook in the Office of Career Services, Rm 12-170. NOTE: The Office of Career Services has added a new directory

to their Career Library: Getting Work Experience, the College Students' Directory of Summer Internship Programs that Lead to Careers. It can be found in the Reference section of the Career Services Office

Volunteer internships: The American Federation of State, County & Municipal Employees (AFL-CIO) in New York (political action department for summer); Common Cause in Washington, DC (summer, fall & spring internships); the National Broadcasting Company, Inc in New York (summer intern-ships); the New England Non-Profit Housing Development Cor-poration in Manchester, NH (various internships assisting low poration in Manchester, Mi Various internance association of and moderate income families in N.E.); the Project for American-Israeli Research, Inc in Boston (present & summer internships); WMCA-AM in New York (full-time – spring, summer & fall in-ternships) and WXKS-FM in Medford, MA (summer & fall internships).

Internships Offering a Stipend:

American Federation of State, County, & Municipal Employees, AFL-CIO has a paid summer internship in their Political Action Dept. This internship is for District Council 37 which is in New York City.

Brandeis University, Dept of Chemistry has a position available for the summer for a biochemistry, biology or chemistry major to do research on cell and model membranes. Full-time position

The Brockton Art Museum in Brockton, MA needs a student to undertake research to develop a file of data relevant to their founder, Myron L. Fuller (MIT '96) who was an internationally known hydrologist.

Castle & Cook, Inc. has announced six summer internship posi-tions available in their Dole Hawaii division. These internships are aimed at students pursuing degrees in mechanical, chemical or electrical engineering, completing sophomore year and residents of Hawaii.

The Citizen Action Resource Center in West Hartford, CT, a national coalition of 25 organizations that work on community or ganizing, coalition building and lobbying efforts, has a new in-ternship/scholarship program available. Jobs are available in many different states.

Executive Office of Communities and Development is accepting resumes through April 15 for their 1986 Summer Internship Program which offers students opportunities in a variety of

Heublein Inc. in Farmington, Conn has several intern positions available for graduate students in their Research and Development operation which is located in Hartford.

The Mel King for Congress campaign seeks student interns and volunteers to work in the race to fill Tip O'Neill's seat in Congress. There are a variety of openings and short term financial arrangements will be considered.

The Metropolitan Life Insurance Company in New York is ac-cepting resumes for their Electronic Installations Technical Summer Intern Program. The Program is designed for students finishing their freshman year who have decided to major in computer science.

Multiflow Computer, Inc. in Brandford, Conn is offering a summer internship program to upper division undergraduate students with a concentration in electrical engineering or computer science.

Norton Company has again announced their Business Orienta-tion Program which allows students to work for the summer and undertake a special project under the guidance of a manager.

supervisors wishing to have projects listed should send project descriptions to the UROP Office. Questions? Contact us, x3-5049, Rm 20B-141.

Nuclear Engineering UROP Awards. Several awards are given to encourage research with faculty in the Nuclear Engineer-ing Dept. Freshmen are encouraged to apply. Contact: Prof. ald Ballinger, x3-5110, Rm 24-215 for more details.

Electrical Engineering Project. Through a special grant from a National Science Foundation Program which provides support to women, minorities, and handicapped undergraduate re-searchers in engineering, funds are available for several students working in the area of electrooptic measurements in high voltage stress materials. Electrical engineering stu encouraged to contact Prof Marcus Zahn, x3-4688 ASAP. students

Biophysical Laboratory Project. UROPer to participate in site-directed mutagenesis of the Fe-protein involved in nitrogenfixation. The work will consist of preparing the mutants, se quencing them by the Sanger-method, overexpressing and isolating the mutated protein, and characterizing it with biophysical methods. Ten hours/wk for pay, starts imm Faculty supervisor: Prof W. Orme-Johnson. Contact: Dr. Eads x-1856, Rm 18-427.

Experiments in Composite Materials Manufacturing Research. Project involves beam relaxation experiments with instron machine, operating automatic tape lay up simulator, etc. Applicant should understand basic-programming language, sim-ple electronics, and possess metal machining skills. Juniors and seniors with 2.86 shop experience are preferred. Faculty supervisor: Prof Gutowski. Contact: Louis Bonhomme, x3-7274.

Cable Television Schedule

MIT Cable Television serves the MIT campus. For con-nection and programming information, call x3-7431.

Wednesday, April 2 Channel 9:

9-10:30am - 12.524 High Frequency Seismology. 2-3:30pm - 13.862 Ocean and Seabed Acoustics II.

Channel 10: 11am-12noon - Live coverage of the MIT Optics and Quantum Electronics Seminar.

Thursday, April 3

6pm - 8.02 Help Session #8. Program will repeat until 4pm, 4/8.

Channel 9: 9-10:30am - 12.524 High Frequency Seismology.

Friday, April 4 8.02 Help Session #8. Program will repeat until 4pm, 4/8.

Channel 9: 10:30am-12noon - 12.806 Instability and Turbulence in Geophysical Systems.

Saturday, April 5 **Channel 8**:

8.02 Help Session #8. Program will repeat until 4pm, 4/8.

8.02 Help Session #8. Program will repeat until 4pm, 4/8.

Monday, April 7 **Channel 8** 8.02 Help Session #8. Program will repeat until 4pm, 4/8.

2-3:30pm - 13.862 Ocean and Seabed Acoustics II. Live from WHOI.

Tuesday, April 8 **Channel 8**:

Sunday, April 6

8.02 Help Session #8. Program will repeat until 4pm.
 4:30-6pm - Live Coverage of the MIT Biology Colloquium.

Channel 10: 3-5:30pm - Live Coverage of the MIT VLSI Seminar.

Channel 11: 10:30am-12noon - 12.806 Instability and Turbulence in Geophysical Systems. Live from WHOI.

Wednesday, April 9 Channel 8

3:30-6pm - Live coverage of Prof Franco Modigliani's Killian lecture.

Channel 9: 9-10:30am - 12.524 High Frequency Seismology. 2-3:30pm - 13.862 Ocean and Seabed Acoustics II.

Channel 10: Ilam-12noon – Live coverage of the MIT Optics and Quantum Electronics Seminar.

Thursday, April 10 6pm - 8.02 Help Session #9. Program will repeat until 4pm, 4/15.

Channel 9: 9-10:30am - High Frequency Seismology.

Channel 11: 10:30am-12noon -Live from WHOI. - 12.762 Experimental Physical Oceanography

Friday, April 11 Channel 8

Geophysical Systems.

8.02 Help Session #9. Program will repeat until 4pm, 4/15. Channel 9: 10:30am-12noon - 12.806 Instability and Turbulence in

term. 7pm-7am. If you need information about anything just want to chat, give us a call. We're here to listen. x3-7840.

Faculty Members - Technology Review would like to hear about books being published by MIT faculty members. Please notify us, as far in advance as possible, of your upcoming book. Technology Review, Rm 10-140, x3-8250.

Club Notes

WMBR** - is looking for students interested in radio and technical work. Contact Eli Polonsky, x3-4000. Leave name and phone number

MIT Student Cable Programming Group** - Looking for students interested in programming the MIT Cable Television channels. Contact Randy Winchester, x3-7431.

Tool & Die - MIT's humor magazine** - meets every Weds, 7pm, Rm 50-309 (Walker). Everyone welcome.

Student Center Committee (SCC)** - Has fun every Sunday, 7pm, Student Ctr Center Lounge. Do you? Call x3-3916 anytime for more info

Animal Rights Forum** - Meets 2nd & 4th Weds each onth, 5pm, Rm 8-105.

MIT Student Duplicate Bridge Club* - Bridge games every Sat, 7pm; every Thur, Sun & Mon, 6:30pm, \$.75 entry fee, Rm 407, Student Center. Lessons free w/entry at 6:15pm from Bridge Senior Masters. No partners necessary, all welcome.

MIT/DL Bridge Club* - Duplicate bridge, Tues, 6:30pm, Student Center Rm 349, ACBL masterpoints awarded; come with or without partner, newcomers always welcome. Special tour-

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Noon Bible Study* - Every Wed, Rm E18-465, bring lunch. Ralph Burgess, x3-2422. (Since 1965).

Edgar Cayce Study Group* - Tuesdays, 6:30-9pm, Edgar Cayce's Search for God material will be used as the basis for group discussion & meditation. For info: Douglas McCarroll, 497-0819 12-9pm or Scott Greenwald, x3-7423.

Graduate Studies

Unless otherwise indicated, contact Dean Jeanne Richard at the Graduate School Office, Rm 3-136, x3-4869 for further information.

Foreign Languages and Literatures Section of the Humanities Dept Student Exchange Program with the Ecole Normale Superieure in Paris, France, 1986-87. MIT student selected will be provided, free of charge, with a private room and breakfast in the school and will have free access to the Ecoles libraries, classes, and seminars. As a student at the Ecole, he/she is entitled to register at any of the institutes of higher learning affiliated with the Ecole, to work under the supervision of some of Paris' most distinguished professors. Graduate students and graduating seniors in the areas of modern history, economics, urban geography, sociology, archaeology, literary and cultural studies, philosophy, and linguistics are invited to apply. The candidate must be competent in the French language. Application deadline: April 11. Ap-plication forms available in the Foreign Languages and Literatures Office, Rm 14N-207. Information: x3-4771.

International Opportunities

The following is a list of opportunities available to foreign na tionals or students desiring work abroad. For more information on these, please see the International Jobs notebook in the Office of Career Services, Rm 12-170.

Student Jobs

There are more job listings available at the Student Employment Office, Rm 5-119

Summer Position. Bell Communications Research is looking for an electrical engineering student completing the junior year, or a senior who is continuing on to graduate school. Applicable areas of interest are analog and/or digital circuit design, transmission lines, and communication systems. Our function is to establish criteria for and perform the analysis of digital transmission systems used to serve telephone company customers. This summer position will provide the student with a learning experience in this dynamic area of telecommunications. Contact: Frank Tuhy (201) 829-4967.

Person needed to develop a heat balance program using BASIC. Chemical engineering background needed; thermodynamics ex-pertise a must. Wage: \$7/hr. Contact: Ivan Klumpar, 825-6500.

Legally blind person needs a driver two nights/wk (will increase to three nights/wk in May) to transport her to Concord from Beacon Hill. Car will be provided. Student can study while I carry out my business. Wage: \$5.50/hr. Contact Virginia Carroll, 7425151 (25.5 unchicked) carry out my business. Wa 742-5151 (8-5 weekdays).

Wanted: student architect to draw plans for Western in-terior/Japanese exterior home. Stucco siding, tile roof; must be able to access Japanese building materials for authentic Japanese look. Contact: Leland, 356-4279.

UROP

MIT and Wellesley undergraduates are invited to join with faculty members in pursuit of research projects of mutual fascina-tion. Undergraduates are also urged to check the Undergraduate Research Opportunities Program's bulletin boards located in the main corridor of the Institute and in the UROP Office. Faculty

Saturday, April 12 **Channel 8:** 6pm - 8.02 Help Session #9. Program will repeat until 4pm, 4/15.

Sunday, April 13 Channel 6pm - 8.02 Help Session #9. Program will repeat until 4pm, 4/15.



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phone (617) 253-2701.

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de Monchaux to head panel

Boston Mayor Raymond Flynn has turned to Dean John de Monchaux of the MIT's School of Architecture and Planning to play a key role in future decisions about the development of Boston.

Mayor Flynn has asked Professor de Monchaux to serve as the first chairman of the proposed Boston Civic Design Commission. The dean has announced he will accept the position once the 13-member commission has been formally approved by the Boston Redevlopment Authority board and the Boston Zoning Commission.

The commission, if approved, will make recommendations to the mayor and BRA on the design of major development projects and decide whether project designs need further review.

The city's architectural community has been pushing for a review commission for several years.

BRA Director Stephen Coyle and others were enthusiastic about the appointment of Dean de Monchaux, whose experience before he came to MIT in 1981 included extensive involvement in urban and regional planning, urban design, and urban research and policy studies.

BRA director Coyle told The Boston Globe that "a commission of this kind succeeds with the right leadership from the outset. I'm proud that Dean de Monchaux has accepted the mayor's offer and can set the tone to convince architects and developers that Boston is serious about design issues."

John Connolly, an aide to Mayor Flynn, said the mayor was pleased "that a person of the stature of Dean de Monchaux has accepted the chairmanship. . .The mayor recognizes that it is critical that his appointees to the commission have the respect of the Boston design community."

Richard Fitzgerald, executive director of the Boston Society of Architects, also praised the appointment and said the mayor could not have made a better choice.

Dean de Monchaux graduated from the University of Sydney in Australia in 1960 and received a master's degree in architecture (urban design) from Harvard University in 1964. In 1971 he held a Loeb Fellowship in Advanced Environmental Studies at Harvard and the following year served on the faculty of the School of Architecture and Planning at Princeton University.

Over a period of 20 years he carried out projects in Australia, Southeast Asia, the United Kingdom, Colombia, Canada and the United States, gaining an international reputation as an architect, urban designer and planner.

Children's Festival

The Massachusetts Beta chapter of Tau Beta Pi is one of nine participants of the Children's Festival Sunday, April 6, from 1:30-4:30pm at Saks Fifth Avenue, Prudential Center, Boston.

Featured activities will include the "musical sidewalk" (provided by the fraternity), clown shows, face painting, a fashion presentation with 50 local children, and appearances by Mickey Mouse, Donald Duck and Zero the Space Dog. Admission is free and is open to the public.

The event is a salute to children during Child Abuse Prevention Month and to the Massachusetts Society for the Prevention of Cruelty to Children's century of service.

Lerner Awards given

Winners of the 1984-85 Lerner Doctoral Dissertation and Master's Thesis awards have been announced by the faculty of political science.

The awards, which include cash prizes, are given in honor of Professor Daniel Lerner, founder of the political science department and a distinguished political scientist.

Cowinners of the 1984-85 Dissertation Award are Norma Jean Kriger for Struggles for Independence: Rural Conflicts in Zimbabwe's War of Liberation and Maria de Castro Santos, for Alcohol as a Fuel in Brazil: An Alternative Energy Policy and Politics. Winner of the 1984-85 Master's Thesis Award is Lisa Allen Vawter for The Case of Telecommunications in the US Technology Transfer to China.



Roberto C. Goizueta, chairman of the board and chief executive officer of the Coca-Cola Company, will conclude the Sloan School of Management's 1985-86 Distinguished Speakers Series with a talk Thursday, April 3, on his company. He will speak at 4:30pm in Rm E51-329 (Bowen Room). Members of the MIT community are welcome. Mr. Goizueta, a native of Cuba, has been associated with the Coca-Cola Company since 1954, a year after he received a BS degree in chemical engineering from Yale University. After first working as a chemist and then as staff assistant to the senior vice president for all technical operations in Latin America, he served at the company headquarters in Atlanta, Ga., on various assignments, starting in 1964. He became executive vice president in 1975, vice chairman in 1979 and president in 1980 before assuming his present posts in 1981.

Quartet to play Friday

The Mendelssohn String Quartet, known for its young musicians, will appear in concert at MIT on April 4 at 8:30pm in Kresge Auditorium, the final event this academic year in the MIT Guest Artist Series. Admission is free.

The program will feature Mendelssohn's Quartet in A Minor, Op. 13 and Schoenberg's Quartet 1 in D Minor, Op. 7. This concert will be recorded by WGBH-FM Radio for future broadcast on Chamberworks.

Since its 1981 New York debut in Merk Hall, the Mendelssohn Quartet has quickly established a reputation as one of the finest young American quartets of our time.

According to The New York Times, "These splendid instrumentalists and musicians have been extremely fortunate in finding one another, for their skills and talents seem to have been made to go together." Winner of the 1981 Young Concert Artists International Auditions, the Mendelssohn is quartet-in-residence at the Santa Fe Chamber Music Festival.

For five years it has been resident quartet at New York's Hebrew Arts School, which was instrumental in its formation in 1979. The Mendelssohn records for the Musical Heritage Society.

Arts deadlines noted

Two significant deadlines are announced by the Council for the Arts at MIT:

—First is the *final* grant application deadline for this academic year: Friday, April 4, at 5pm.

-Second is the *first* application deadline for student artists who may wish to exhibit their work in the Jerome B. Wiesner Student Art Gallery in the Student Center: Friday, April 11, at 5pm.

In the case of grants, applications for projects in all artistic disciplines are welcome from all members of the MIT community. Guideline brochures and application forms

Upcoming conference to explore reproduction technologies, issues

"Women and Reproduction Technologies," a conference that will explore controversies surrounding advances in reproductive science, will be held April 13-14 at MIT.

In vitro (test-tube) fertilization, the use and abuse of prenatal testing, the possibilities and limitations of nonbiological parenting, fetal monitoring and imaging and the rights of fetuses are some of the topics that will be addressed.

MIT Women's Studies, the Office of the Dean of Humanities and Social Science, and the Technology and Culture Seminar are sponsoring the event.

The schedule is as follows. On Sunday, April 13:

-"Issues of Infertility", with Dr. Patricia McShane, head of the In Vitro Fertilization Clinic, Brigham and Women's Hospital, and Dr. Thomas Shannon, professor of social ethics, Worcester Polytechnic Institute, 9:30-11am in Rm 10-250.

-- "Prenatal Screening," Dr. Ruth Hubbard, professor of biology, Harvard University and a women's health activist, and Robin Blatt, genetics education specialist and childbirth educator, 11-12:30pm in Rm 10-250.

-"Imaging Techniques and Fetal Monitoring" with Dr. Susan Kohler, manager of instrumentation and operations, MIT Magnetic Resonance Imaging Facility; Becky Sarah, lay midwife and natal care assistant, and Dr. Caroline Whitbeck, MIT visiting associate professor, 2-3:30pm in Rm 10-250. "Commodification of Life Isauco" with

-"Commodification of Life Issues" with Raquel Bauman, MS, associate dean of Student Affairs, University of Massachusetts Medical Center; Gena Corea, journalist and author of The Mother Machine and The Hidden Malpractice: How American Medicine Mistreats Women, and Marcia Saxton, consultant and writer associated with the Boston Self Help Center, concentrating on disability rights, 3:45-5:30pm in Rm 10-250.

-"The Future of Motherhood" with Janet Gallagher, JD, director of the Civil Liberties and Public Policy Program, Hampshire College; representatives from the Lesbians Choosing Children Network, an information and support network for lesbians deciding to have children, and Norma Swenson, MPH, coauthor of *The New Our Bodies Ourselves*, and former president of the International Childbirth Education Association, 8-9:30pm, Rm 9-150.

On Monday, April 14:

--"Moral Pioneering and the Frontiers of Reproductive Technology" with Dr. Rayna Rapp, on the anthropological faculty, New School for Social Research, and Dr. Diane Paul, visiting scholar, Population Genetics Laboratory, Harvard University, 4:30-6pm in Rm 9-150.

-"What Women Need and Want to Know about Reproductive Technologies" with Martha Griffin, RN, MSW, president of Bay State RESOLVE, part of a national organization that aids couples with infertility problems, and Judy Norsigian, coauthor of *The New Our Bodies, Ourselves* and board member of the National Women's Health Network, 8-9:30pm Rm 9-150.

The conference is wheelchair accessible and is open to the public. For more information, call x3-8844.

Musicus to hold Rockwell Chair MIT has announced the establishment of the Rockwell, whose main products and services

MIT has announced the establishment of the endowed Rockwell International Career Devel-

opment Professorship and the appointment of Professor Bruce R. Musicus of the Department of Electrical Engineering and Computer Science as the first chairholder.

The professorship, endowed by Rockwell International of Pittsburgh, Pa., will be awarded, for terms not to exceed three years, to faculty members in the Departments of Aeronautics and Astronautics, Electrical Engi-

neering and Computer Science, Materials Science and Engineering, Mathematics and Mechanical Engineering.

The announcement was made by President Paul E. Gray and Chairman David S. Saxon. President Gray told Rockwell International that, through such career development professorships, "young professors with special promise can have the means to accelerate their progress in both research and teaching." This, he said, "has the double effect of making it possible for the Institute to attract and retain first-class talent, while at the same time contributing to the national interest in areas of genuine significance."

Dr. Saxon, in a letter to Robert Anderson, chairman of the board and chief executive officer of Rockwell, said, "The arrangement whereby the chair can be moved periodically from discipline to discipline strikes me as especially creative and interesting."

Bufferd named deputy treasurer

Glenn P. Strehle, vice president and treasurer of MIT, has announced the promotion of Allan S. Bufferd to dep-



uty treasurer and director of investments, effective March 1. Dr. Bufferd has been associate treasurer and recording secretary. Dr. Bufferd has as-

are in the aerospace, automotive and electronics fields, employs 130,000 people in the United States and five other countries. It has had a long tradition of support for MIT, contributing to the Charles Stark Draper professorships, establishing Rockwell International graduate fellowships, and also two earlier Rockwell International term professorships in aeronautics and astronautics and mechanical engineering. cus was selected to hold the chair because of his

cus was selected to hold the chair because of his outstanding contributions to both education and scholarship in the software and hardware design of special purpose computers for digital signal processing.

His chief research interests currently are in the design of algorithms and architectures for specialpurpose computers dedicated to digital signalprocessing tasks. In the architecture field, he is focusing on the study of parallel algorithms especially suitable for solving partial-differential equations, image processing and knowledge-based signal-understanding problems.

For Dr. Musicus, who joined the MIT faculty in 1982 as an assistant professor, the new honor represents the second time he has been named the first holder of a chair. From March 1983 to February 1985 he was the first Class of 1956 Career Development Professor.

Dr. Musicus received an SB in engineering and applied physics from Harvard University in 1975, the EE and SM in electrical engineering and computer science from MIT in 1979, and the PhD from MIT in 1982.

He was a National Science Foundation Fellow in 1975-78 and recipient of the Tau Beta Engineering Award in 1975.

received the SM and ScD degrees in metallurgy here in 1961 and 1965 respectively and the JD degree from Suffolk University in 1976. He joined the Institute in 1972 after working in industry for a number of years.

Dr. Bufferd is a director of the Harvard Cooperative Society and a member of the advisory boards of six venture capital funds. He is also vice chairman of the Board of Trus-



are available at the Council office (E15-205) or by calling Alison Shafer, 3-4003.

Application forms for the Wiesner Gallery are available at the Campus Activities Office, Rm W20-345; the Student Art Association, Rm W20-429; and also from the Council for the Arts office. For more information, call Andy Eisenmann, x3-6771 or x3-7019.

CAVS hosts holographic 'forest'

Visitors to an 11-day installation at MIT will be offered "the experience of walking through a forest of synthetic space and energized color."

This quote from Rene Paul Barilleaux, curator at New York's Museum of Holography describes the work of German artist Dieter Jung, whose holographic installation opened yesterday at the Center for Advanced Visual Studies (CAVS). It will be open every day through April 11, 11am-5pm, in a special exhibition space on the first floor of the CAVS Building (W11).

A reception for members of the MIT community will be held Friday, April 4, 5-7pm.

In discussing Jung's work, Barilleaux also has written: "Jung's holograms capture the essence of holography. They are panoramas of color-saturated light which reveal unexplored territories. Both aesthetically and technically (and they are indeed well crafted) these pieces represent a significant direction in holography as an art form."

Mr. Jung is one of the Rockefeller Fellows at CAVS, a program providing for artists-inresidence at the Center through a grant from The Rockefeller Foundation. His exhibition here also includes paintings and drawings.

The artist has come to MIT from New York, where one of his installations was on view at the Museum of Holography, September through February. His work has been exhibited widely in Europe, South America and the Far East as well as in major American cities.

Assisting with Jung's CAVS installation has been his longtime collaborator Joseph R. Burns Jr. of New York and MIT graduate student Mark Holzbach. sumed responsibility for most of the day-today operations of the Treasurer's Office, including supervision of investment management of assets in securities, real estate and

other personal property of the MIT Corporation. He will supervise the relationship with investment managers, monitor investment transactions and review and interpret investment policies and procedures of the Investment Committee of the Corporation, of which he is secretary. He is assuming these responsibilities from Mr. Strehle, who was recently appointed vice president and will be devoting most of his time to resource development. Mr. Strehle will continue as treasurer.

Dr. Bufferd has increased responsibilities for investment of the assets in the Retirement Plans for Staff Members and for Employees under policies established by their trustees, and serves as clerk of these plans. He is the officer who coordinates the financial administration of pension and other benefits programs with other departments at MIT. He also supervises liaison with external providers of actuarial, auditing and legal services. A 1959 graduate of MIT, Dr. Bufferd also tees of Beth Israel Hospital and a trustee of the Whiting Foundation in Boston.

Dr. Bufferd is married to Rhea Kot Bufferd, an adoption specialist at Cambridge Family and Children's Service. They have two children, Lauren, affiliated with the Newberry Library of Chicago, and Steven, who is working and studying in Beijing.

Stanton at AMT Forum

Frank Stanton, former president of the Columbia Broadcasting System, will be the third speaker in the AMT Forum series on the arts and media technology. He will give his talk, "Where Technology is Taking the News," Thursday, April 3, at 4:30pm in the Bartos Theater, Lower Level, at The Media Laboratory (E15).

Dr. Stanton, who has been called the "father of electronic journalism," was president and chief operating officer of CBS from 1966 to 1981. He will discuss the historical ties between technological innovation and news coverage, focusing on his assessment of the impact of current and projected technological developments on the nature and quality of the news industry.

Tech Talk, April 2, 1986, Page 3

THE INSTITUTE CALENDAR

April 2-13

Freshmen are encouraged to attend departmental lectures and seminars. Even when these are highly technical they provide students one means to learn more about professional work in a students one m department and field.

MISS THE TECH TALK DEADLINE?

Put your announcement on the MIT Cable System. "To-day at the Institute" runs 24 hours a day and can be viewed in Lobby 7, Lobby 10 and anywhere the cable is connected.

Simply submit announcement in writing to Rm 9-030. We brefer a day's warning, but faster action may be possible. Useful also for correcting errors, notifying about pre

cancellations, and dealing with emergencies. Note: If you have met the Tech Talk deadline, your announcement is automatically put on cable (except for exhibits and some multimeetings programs).

Events of Special Interest

Civil Engineering Open House* - Wed, April 9, 2-4:30pm, Rm 10-105. Refreshments served; come and talk with faculty and students about programs in civil engineering.

Applied Biological Sciences Open House** - Thurs, April 10, 24:30pm, Rm 10-105. Pizza and beverages provided; talk to faculty about undergraduate program, UROP, and opportunities for graduate training.

Seminars and Lectures

Wednesday, April 2

High Power Coupled Carbon DiOxide Waveguide Laser Arrays^{*} - LA. Newman, United Technologies Research Center, EECS/RLE Seminar on Optics and Quantum Elec-tronics, 11am-12noon, Rm 36-428.

Energy Monitoring and Management^{**} - India Hoesen-stein, energy manager, the Beacon Companies, Inc, MIT Joint Program for Energy Efficient Buildings & Systems/Lab-oratory of Architecture & Planning Seminar on Building Performance, 12-1pm, Rm 1-134. Bag lunches welcome

Slowly Varying Surface and Internal Waves by Multiple Scale Analysis* - Yehuda Agnon, WHOI/MIT, Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-915.

The Application of Supernodal Methods to PWR Analysis** - Ray Gamino, Dept of Nuclear Engineering Seminar, 3-4pm, Rm 24-213.

Expert Systems in Production Environment** - Dr. Petros Pappas, Westinghouse Productivity Center, Pittsburgh, Laboratory for Manufacturing and Productivity Seminar, 3-4pm, Rm 35-250. Refreshments follow.

Magmatic and Tectonic Controls on the Petrogenesis of Ocean-Ridge Basalts** - Prof Charles Langmuir, Lamont-Doherty Geological Observatory, Columbia University, Dept of Earth, Atmospheric, and Planetary Sciences Colloquium, 4-5pm, Rm 54-918.

Peroxide Production by Phytoplankton** - Brian Palenik, MIT, Ralph M. Parsons Laboratory Aquatic Sciences Seminar, 4pm, Rm 48-316

The Life Cycle Hypothesis* - Prof Franco Modigliani, winner, 1985 Nobel prize in economics; MIT Institute Pro-fessor, Killian Award Lecture, 4:30pm, Kresge Auditorium.

Thursday, April 3

Introduction to the MIT Microcomputer Center** - Infor-mation Systems Seminar, 12-1pm, Student Ctr West Lounge.

Keeping Members Happy: Recruitment, Retention and Motivation, and Delegation and Supervision** - Barbara Chuck, staff associate, Campus Activities Office, MIT Leadership Education and Development (LEAD) Program ex-ploring the skills needed by effective leaders, 3pm, Student Ctr Center Lounge, or 6:30pm, Rm 10-280.

The Role of Physics and Chemistry in the Computer of row** - Dr. John Armstrong, IBM, Physics Collo-4pm, Rm 10-250. Refreshments served, 3:30pm, Rm Tomorrow** quium, 4pm, 10-250 Lobby

Effects of High Technology Facilities on Building Technology* - William L. Maini, president, Symmes, Maini & McKee Associates, Inc, Construction Engineering and Management Seminar, 4pm, Rm 1-190. Landau-Ginzburg Theory for Ferroelastic Marensites** -Prof Gerharde Barsch, Pennsylvania State University, Ctr for Materials Science and Engineering Colloquium, 12:15pm, Rm 9-150. Lunch provided, 12noon.

Designing for Transportation: Dallas, Boston, Providence Designing for Transportation: Datas, Boston, Providence – Marilyn Jordan Taylor, associate partner, Skidmore, Ow-ings and Merrill, Center For Transportation Studies/Transport-ation Research Forum of Boston Seminar, 12:45-2pm, Student Ctr Mezzanine Lounge. Optional luncheon, 12:12:45pm; lun-bers for Status Schem students cheon fee - \$2/students; \$6/non-students.

Free Surface Flows of Viscoelastic Fluids** - Minas Apelian, Chemical Engineering Seminar, 2pm, Rm 66-110.

Effects of Pressure on Soot Formation in Laminar Diffu-sion Flames** - Prof Craig Bowman, Dept of Mechanical Engineering, Stanford University, Chemical Engineering Seminar, 3pm, Rm 66-110.

Can We Keep Up With Japan? Building a World-Class Economy* - Prof Lester Thurow, Sloan School of Manage-ment; author, The Zero Sum Society and The Zero Sum Solution, MIT Colloquium Committee Seminar, 3:15pm, Rm 10-250. Followed by pre-workshop activities in Baker, McCor-mick, 500 Mem Dr, Random Halls, 5:15-6:30pm, and by workshops in Ashdown and East Campus, 6:30-8pm.

nology of Marfe Behavior in TFTR* - Dr. Sidr Medley, Princeton Plasma Physics Laboratory, Plasma Fu-sion Center Seminar, 4pm, Rm NW17-218.

Data Assimilation into Models of the Ocean General Circulation: From the Steady, Quasi-Linear to the Transient, Eddy-Resolving Case** - Prof Paola Rizzoli, MIT, Ctr for Meteorology and Physical Oceanography Seminar, 4pm, Rm 54-915

East Meets West* - Cheri Kim '86, Dept of Humanities slide/lecture on travels through China, Korea and Japan, 7:30pm, Kresge Little Theatre. Refreshments follow.

A World Without Women: the Masculist Ideal in Western Science and Technology[•] - David Noble, Drexel Univers-ity, Black Rose Lecture, 8pm, Rm 9-150.

Monday, April 7

The BCS Macintosh Users Group** - Robert Hafer, direc-tor, Information Systems Seminar, 12-1pm, Rm 13-1143.

Man and Nature^{*} - Prof Stephan L. Chorover, MIT Dept of Psychology, Ctr for Technology, Policy and Industrial Development/Whitaker College of Health Sciences Program in Health Policy Seminar on Environmental Health and Industrial Development: Current Research and Educational Perspectives, 4-5pm, Rm E25-401. Refreshments served, 3:30p

Three-Dimensional and Global Stability of Turbulent Shearing Flows** - Prof Willem V.R. Malkus, MIT, Applied Mathematics Colloquium, 4pm, Rm 2-338. Refreshments served. 3:30pm, Rm 2-349.

Guidebooks: Models and Reality* - Prof David Gebhard, architectural history, University of California-Santa Bar-bara, School of Architecture and Planning Lecture Series "Models and Mirrors" on Design Communication, 6pm, Rm 9-150.

Winged Wonders: The Story of the Flying Wings* - Edmund T. Wooldridge, chairman, Aeronautics Dept, Na-tional Air and Space Museum, Washington, DC, MIT Museum/Ward Fund of the Aeronautics and Astronautics Dept/New England chapter, Institute for Aeronautics and Astronautics Slide Lecture, 7pm, Rm 10-250.

Tuesday, April 8

Statistical Life Data Analysis* - Gerald J. Hahn, Statistics Program, Corporate Research and Development, GE; MIT visiting scholarscientist, Civil Engineering Special Seminar, 10:30am, Rm 1-350

Optical Feedback and Squeezed Systems** - Hermann A. Haus, MIT, Laser Research Ctr/George R. Harrison Spec-troscopy Laboratory/Research Laboratory of Electronics/School of Engineering Seminar on Modern Optics and Spectroscopy, 11-12noon, Rm 37-252. Refreshments served following seminar.

Bulletin Boards and Kermit** - Information Systems Seminar, 12-1pm, Rm 1-390

Metabolic Changes in Obesity: The Role of Amino Acids and Neurotransmitters* - Benjamin Caballero, MD, assis-tant director, CRC, Clinical Research Center Seminar Series on Battling the Bulge: Science and Obesity, 4-5pm, Rm E25-401.

Estrangement and Fragmentation in Present-Day Lebanon[•] - Dr. Augustus Richard Norton, professor of comparative politics, USMA West Point, Bustani Middle East Seminar, 4pm, Rm E38-615. Prof Philip Khoury, history faculty, will chair.

3D Inverse Blade Design in Turbomachines** - Mr. W. Ghaly, graduate research assistant, MIT Dept of Aeronautics and Astronautics, Dept of Aeronautics and Astronautics Gas Turbine Laboratory Seminar, 4:15pm, Rm 35-520. Refreshments served, 4pm.

Ansel Adams and the Precision of Vision^e – John Holmes, MIT Museum Slide Lecture, 7pm, MIT Museum.

Wednesday, April 9

Model Ionic Thermoplastic Elastomers Based on Polyisobutylene" - Garth L. Wilkes, Polymer and Inter-faces Laboratory and Dept of Chemical Engineering, Virginia Polytechnic Institute and State University, Program in Polymer Science and Technology Polymer Seminar, 11am-12noon, Rm 66-360. Refreshments served, 10:30am. Life at Low pH in a Bog** - Tom Army, MIT, Ralph M. Par-sons Laboratory Aquatic Sciences Seminar, 4pm, Rm 48-316.

Application of the Life Cycle Hypothesis to Policy Issues* - Prof Franco Modigliani, winner, 1985 Nobel prize in economics; MIT Institute Professor, Killian Award Lecture, 4:30pm, Rm 10-250. Closed-circuit television Rms 4-231, 4-270 and Rm 34-101.

Observations on the Fifth Generation Project** - David Gollard, associate professor, mechanical engineering, MIT Japan Science and Technology Forum talk, 5:30pm, Student Ctr Mezzanine Lounge.

On His Work** - Giancarlo De Carlo, director, International Laboratory for Architecture and Planning, Milan, Dept of Architecture Arthur H. Schein Memorial Lecture, 6:30pm, Wiesner Bldg Bartos Theatre.

Thursday, April 10

DEC User Group Resources** - Information Systems Seminar with Boston Computer Society, the DEC Users Society (DSUS) and a new group for VAX system managers at MIT, 12-1pm, Rm 13-1143.

Running Effective Meetings: Agenda Preparation; Parliamentary Procedure; Group Discussion Techniques** - Barbara Chuck, staff associate, Campus Activities Of fice, MIT Leadership Education and Development (LEAD) Pro-gram exploring the skills needed by effective leaders, 3pm, Student Ctr Center Lounge, or 6:30pm, Rm 10-280.

The Crystal Ball Looks at the Upsilon** - Dr. Susan Cooper, SLAC, Physics Colloquium, 4pm, Rm 10-250. Refreshments served, 3:30pm, Rm 10-250 Lobby.

Three Types of Public Memory^{*} - Prof Mary Douglas, visiting professor, Princeton University, Sloan School Ken-neth J. Germeshausen '31 Distinguished Lecture, 4pm, Rm E51-329. Reception follows

The Effects of Migration Patterns on the Occupational Mobility of Women in the Philippines^{*} – Jennifer Lauby, Harvard University, MIT/Harvard Research Seminar on Migration and Development, 4-6pm, Harvard Ctr for Population Studies, 9 Bow St.

Electronic Publishing* - David Gifford, MIT; Walter Bender, MIT; Allen N. Grossman, Dow Jones & Company, Inc, MIT Communications Forum Seminar, 4-6pm, Wiesner Bldg Bartos Theatre.

Choosing the Right Preposition** - Writing and Com-munication Center ESL Writing American English Workshop, 4:15pm, Rm 14N-317.

Friday, April 11

Japanese Language Word Processing Using a Conven-tional Macintosh and Printer** - Information Systems Seminar, 12-1pm, Rm 13-1143.

Enhanced Oxygen Transfer Using Oil-in-Water Emulsions** - James D. McMillan, Chemical Engineering Seminar, 2pm, Rm 66-110.

Biotechnology** - Steven F. Karel, Stanford University, Chemical Engineering Seminar, 3pm, Rm 66-110.

ctions on Nuclear Power in America and Overs - Prof Richard K. Lester, MIT Dept of Nuclear Engineering, Ctr for Technology, Policy and Industrial Develop-ment/Whitaker College of Health Sciences Program in Health Policy Seminar on Environmental Health and Industrial oment: Current Research and Educational Perspectives, 4-5pm, Rm E25-401. Refreshments served, 3:30pm.

Current Research in the Los Alamos Spheromak Program^{*} - Dr. Cris W. Barnes, Los Alamos National Laboratory, CTR Division, Plasma Fusion Center Seminar, 4pm, Rm NW17-218.

Readings

Poetry Reading[•] – Robert Creeley, author of Hello, Later and Mirrors, MIT Writing Program reading, Thurs, April 10, 8-10pm, Student Ctr Mezzanine Lounge. Creeley will read from his new poetry collection, Memory Gardens. Free.

Community Meetings

Alcoholics Anonymous (AA)** - Meetings every Tues, 12-1pm, Rm E23-364. For info call Ann, x3-4911.

Al-Anon^{**} - Meetings every Fri, noon-1pm, Health Education Conference Rm E23-297. The only requirement for membership is that there be a problem of alcoholism in a relative or friend. Call Ann, x3-4911.

Cocoon** - LSC Movie, April 5, 7&10pm, Kresge Auditorium. Alcohol Support Group** - Meetings every Wednesday, 7:30-9am, sponsored by MIT Social Work Service. For info call Ann, x3-4911. West Side Story** - LSC Movie, April 6, 6:30&10pm, Rm 26-100. \$1/MITWellesley ID.

Narcotics Anonymous* - Meetings at MIT, every Mon, 1-2pm, Rm E23-364 (MIT Medical Dept). Call 569-0021.

Overeaters Anonymous* - Meetings every Mon, 12-1pm, Rm E23-297. This is not a lunch time meeting, so please do not bring any food. For info call Judy, x3-2481.

Medical Consumers' Advisory Council Meeting** - Open meeting, Mon, April 14, 12noon, Rm E23-501. Call x3-1316 if you would like to attend.

MIT Faculty Club** - The Club is open Mon-Fri. Luncheon

Alumni Activities

Learning to Live in Space** – Prof Laurence Young, MIT Man-Vehicle Lab, MIT Club of Boston Dinner and lec-ture, April 11, 7pm, Hillcrest Restaurant, Waltham. Cocktails, 6:30pm. Cost. \$16/Club members & guests; \$14/those under 18; \$18/non-members. For reservations, send check made out to the MIT Club of Boston to: Mark Radtke, Venture Economics, PO Par 268 Willcolm Wills, MA 2019, Life, 121, 2020 Box 348, Wellesley Hills, MA 02181. Info: 431-8100.

MIT Activities Committee

MITAC, the MIT Activities Committee offers discount movie tickets for General Cinema, Showcase and Sack (USA Cinemas) Theaters (\$3 ea). Tickets are good 7 days a week, any

performance. Tickets may be purchased at MITAC Office, Rm 20A-023 (x3-7990), 10am-3pm. Mon through Fri and Lobbies 10 and E18 on Fri, 12-1pm. Lincoln Lab employees may purchase tickets in Rm A-270 from 1-2pm, Tuesday through Friday only. Check out our table of discounts for camping, dining, musical and cultural events available to you through MITAC and MARES (Mass Assoc of Recreation and Employee Services).

All American Dance. Fri, April 4, 8pm, Wang Center. A trio of thrilling performances by the Boston Ballet: Agnes DeMille's *Fall River Legend*, a suspenseful adaption of the tale of Lizzie Borden; Balanchine's *Square Dance*; and *Pipe Dreams*, choreo-graphed by Boston Ballet's new Artistic Director Bruce Marks. Tickets: \$21.50 (reg \$23.50) available in Rm 20A-023.

Mandala Folk Dance Ensemble. Sat, April 12, 8pm, John Hancock Hall. Kick up your heels to life, dance, culture and music from around the world. Celebrate a Serbian village wed-ding, a Brazilian carnival, a frantic Rumanian men's dance, Ap-palachian fiddling and clogging and more. Tickets: \$13.25 (reg \$15) available in Rm 20A-023.

Juilliard String Quartert. Fri, April 25, 8pm, Jordan Hall. The "first family of chamber music" perform their fifth concert devoted to the quartets of Beethoven: D Major, Op. 18, No. 3; F Minor, Op. 95, Serioso; and B Flat Major, Op. 130. Tickets: \$15 (reg \$16.50) available in Rm 20A-023.

Council for the Arts Museum Passes. On campus, there are 10 passes employees may borrow for free admission to the Museum of Fine Arts. To check on availability, call x3-5651. At Lincoln Lab, passes are available in the Lincoln Lab Library, Den A 150. Rm A-150.

Museum of Science Tickets. Available for only \$1. Pay another \$1 at the door, for a total savings of \$3/pp/adult; \$1/pp/child (reg \$5/pp/adult; \$3/pp/child).

City Books are here! Only \$.75 (reg \$7.50).

coupons for the greater New England area are here! Only \$9 ea (reg \$25). Ski-Key Books. Containing valuable discount lift ticket

New! The Greater Boston '86 Books are here! 2-volume, 820-page discount coupon book offer discounts on fine and casual dining, theatre, comedy shows, opera, ballet, museums, hotels, car washes, cleaners, and more...for the greater Boston area and beyond (inc areas in the Metro West, South Shore, North Shore & north of Boston). A limited supply now available for only \$20 ea (reg \$30 ea).

Important! To avoid disappointment, purchase tickets and make servations early as we are limited by ticket availability and transportation. All MITAC events and ticket purchases are nonrefundable due to the non-profit nature of our organization.

Social Activities

Japanese Table** - MIT-Japan Science and Technology Pro-gram/Wellesley-MIT Exchange Program lunch table, every Tues, 1-2pm, Student Ctr Center Lounge. Bring bag lunch; all levels

Hebrew Table** - MIT Hillel Hebrew Table to practice your Hebrew, every Tuesday at 5:30pm in the Kosher Kitchen (Walker Rm 50-007). Dinner available for \$5.75.

GAMIT Sunday Discussion Meeting* - Gays at MIT, Suns, 5pm, GAMIT Lounge, Walker Memorial Rm 50-306. Dinner served at 6:30pm.

GAMIT Study Break* - Gays at MIT, Thurs, 9pm, GAMIT Lounge, Walker Memorial Rm 50-306.

Lesbian Lunch Group^{*} - LAMIT, (part of GAMIT) meets alternate Thursdays. Staff, faculty & students welcome. Info: contact Lesbian Lunch Group, c/o Rm 50-306 or call x3-5440.

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Movies

\$1/MIT-Wellesley ID.

26-100. \$1/MIT-Wellesley ID.

Rebecca** - LSC Classic Movie, April 4, 7:30pm, Rm 10-250. \$1/MITWellesley ID.

The Big Chill** - LSC Movie, April 4, 7&9:30pm, Rm 26-100.

The Grapes of Wrath** - LSC Classic Movie, April 11, 7:30pm, Rm 10-250. \$1/MITWellesley ID.

Chariots of Fire** - LSC Movie, April 11, 7&10pm, Rm

The Black Cauldron** - LSC Movie, April 12, 3,7 & 9:30pm, Rm 26-100. \$1/MITWellesley ID.

Something Wicked This Way Comes** - LSC Movie, April

Navigating the Public Domain* - Richard M. Stallman, founder, GNU Project; Douglas Chamberlain, Boston Com-puter Society; Stanley Doherty, Scholastechs, MIT Comunications Forum Seminar, 4-6pm, Wiesner Bldg Bartos Theatre.

Clinical Biomotion Analysis* - Patrick O. Riley, PhD candidate, medical engineering/medical physics, Harvard-MIT Division of Health Sciences and Technology Seminar, 4:10-5pm, Rm E25-117. Refreshments served, 4pm.

English Verb Tenses** - Writing and Communication Center ESL Writing American English Workshop, 4:15pm, Rm 14N-317.

The Coca-Cola Company** - Roberto C. Goizueta, chairman, Board of Directors and chief executive officer, The Coca-Cola Company, Sloan School of Management Distinguished Speakers Seminar, 4:30pm, Rm E51-329.

Weapons Technology and Professional Responsibility* -Dr. Theodore Taylor, physicist; president, Nova Inc, MIT Student Pugwash/High Technology Professionals for Peace Seminar, 7:30pm, Rm 34-101.

Friday, April 4

Inside Your IBM PC** - Information Systems Seminar, 12-1pm, Rm 13-1143.

TBA** - Computational Fluid Dynamics Informal Seminar, 12-1pm, Rm 33-206.

Page 4, Tech Talk, April 2, 1986

Optical Properties of Multiple Quantum Well Waveguides** - Y.J. Chen, GTE Laboratories, EECS/RLE ar on Optics and Quantum Electronics, 11am-12noon, Rm 36-428.

MacWrite and Microsoft Word** - Sherry Howlett, Apple Computer, Inc, Information Systems Seminar, 12-1pm, Rm 13-1143.

Evaluating Lighting System Performance** - Harvey Bryan, assistant professor of building technology, MIT Dept of Architecture, MIT Joint Program for Energy Efficient Buildings & Systems/Laboratory of Architecture & Planning Seminar on Building Performance, 12-1pm, Rm 1-134. Bag lun-

Bartropic Semi-Diurnal Tides off the Coast of Northern California[®] - Lealie Rosenfeld, WHOI/MIT, Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-411.

An Introduction to Nodal Expansion Methods** - Peter Laughton, Dept of Nuclear Engineering Seminar, 3-4pm, Rm 24-213.

Macrocyclic Polymers Synthesis and Solution Properties⁴ - Prof Paul Rempp, CNRS, Strasbourg, France, Program in Polymer Science and Technology Polymer Seminar, 4-5:30pm, Rm E25-117. Refreshments served, 3:30pm.

Effect of Structure and Composition on Grain Boundary Diffusion: A Computer Simulation Study** - Cynthia Nit-ta, PhD candidate, Dept of Nuclear Engineering RST Seminar, 4pm, Rm 24-121. Refreshments served, 3:45pm

A Model for Tectonic Segregation and Implications for "Pressure Solution" in Rocks** - Prof Pierre-Yves Robin, mospheric, and Planetary Sciences Colloquium, 4-5pm, Rm, 54-918

hours: noon-2pm; dinner hours For private party reservations, call x3-4896 9am-5pm daily. Commodore Users Group** - meets monthly at noon time. For more info, call Gil, x8-3186 Draper.

Wives' Group** - Morning Group: April 2, Newbury Street art galleries; info - Hyeyon Kim, 227.1526 or Mireille Chabaud, 776.7533; April 9, MIT Museum, Current exhib.: A Photographic Perspective of MIT, Calvin Campbell; Watercolors of Europe & the Near East 1971-92, by Arthur Roach; sculpture by Beverly Berlon Seamons; info – Chieri Kotake, 643-8497 or Lynda Merican, 577-9519. Meet at 9:15am, Eastgate. Children Lynda Merican, 517-5019, meet at 5.10an, basigate Omatom welcome. Afternoon Group: April 2, My Native Pakistan – Seema Mushtaq Khan, Wives' Group member; April 9, Being Pregnant: How to Prepare for Having a Baby – Dr. Annie Liau, obstetrician: gynecologist, MIT. All meetings 3-5pm, Student Ctr Rm 491. Babysitting provided in Student Ctr Rm 407.

Craft Group** - sponsored by Wives' Group, meets every Thurs, 2-4pm, Student Ctr Center Lounge or Student Ctr Rm 407. Please call x3-1614 to check on location of meetings.

The Language Conversation Exchange** spor Wives' Group, seeks persons interested in practicing languages with a partner. Many international students and spouses wish to practice English with a native speaker. If you are willing to help an international visitor practice English and/or interested in practicing or learning a foreign language with a native speaker, call the secretary to the Wives' Group, x3-1614.

Feminist Reading Group** - Meets every Wed, 12-1pm, Rm E51-310. Info: Sharon, x3-3622.

MIT Women's League Informal Needlework Group Wednesday lunchtime gatherings, 9:30am-1:30pm, Rm 10-340. Bring sack lunch, projects, swap ideas. Coffee & tea served. Meeting dates: April 9, 23, May 14, 28. For more info, call Lillian Alberty (491-3689), Nancy Whitman (x3-6040) or Beth Hawking (749.4055) Harling (749-4055).

Music

Noon Hour Chapel Series* - Primipara Consort perform "Songs of Renaissance Women," Thurs, April 3, 12:05pm, MIT Chapel. Free.

Guest Artist Series* - Mendelssohn String Quartet, per-forms Mendelssohn and Shoenberg, Fri, April 4, 8:30pm, Kresge Auditorium. Free.

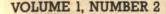
Noon Hour Chapel Series* - Carrie Kourkoumelis, harp. Thurs, April 10, 12:05pm, MIT Chapel. Fr

Tyrone R. Williams, MIT Graduate Student, in Concert: An Evening of Gospel Music^{*} - Black Graduate Student, in Concert An tion concert featuring the Voices of Faith and The New Temple Singers from St. Paul AME Church and friends from the MIT Gospel Choir, April 12, 8pm, Kresge Little Theatre

Festival Judeo Espanol^{*} – Hillel concert featuring Voice of the Turtle and Flory Jagoda & Family performing Sephardic music, Sun, April 13, 2pm, Kresge Auditorium. Tickets available at Hillel (W2a): \$6, \$8, \$10 (students receive a \$2 discount w/stu-

MIT Affiliated Artist Series* - Marek Zebrowski, piano, per-forms Haydn, Prokofieff and Schumann, Sun, April 13, 8pm, Kresge Auditorium. Free

MIT Gospel Choir** - Meets every Sat, 11am. Welcomes new MIT Cooper Choir - Meets every Sat, Ham, we come new members, visitors - if you feel sky about singing, we need help with lighting, audio, design & arrangements for the spring con-cert scheduled April 26, Rehearsals: April 5 - Student Ctr 491; April 12 & 19 - Student Ctr Center Lounge; April 26 - Stu-dent Ctr Rm 491; May 8 - Student Cis Rm 491. Info: x5-8646 dorm, x5-7531 dorm, or x5-6312 dorm





News about information systems throughout MIT

ATHENA FINDS NEW HOMES

Alana Erickson, Project Athena Deployment Manager

ne part of Project Athena's grand scheme is to install individual workstations in as many living groups as is feasible. The planning for such a major deployment of resources began last fall, when we invited MIT students to submit proposals from their living groups; twenty groups responded.

On February 26, a pilot phase was announced. The five living groups selected were Next House dorm, Delta Upsilon, Pi Kappa Alpha, Theta Delta Chi, and Zeta Beta Tau fraternities.

A pilot deployment plan will give us an opportunity to try different ways of installing workstations and linking them to the campus network, before planning the largescale effort. We plan to study the technical aspects of siting Athena equipment in living groups as well as the social and educational effects of high performance computing.

The living groups were chosen to provide a crosssection of locations, types and sizes of living groups, and layouts. The strategies for networking them to the central campus spine will also vary, from dedicated 10Kb phone lines to fiber optics to a possible laser connection. Those groups linked by phone will need local file servers, and we will be experimenting with different configurations of those servers and their LANs.

Project Athena is also in the midst of planning for the installation of various development clusters around campus. These are small groups of Athena workstations located in departmental space, intended for use by faculty members working on course-software development projects funded by the Athena Resource Allocation Committees.

A large number of faculty members are now working on IBM PC/XTs and ATs in their offices or small clusters. These groups can be considered development clusters. However, the real thrust of development clusters is to provide relatively private space for the development of course software utilizing Athena's Phase 2 high-performance workstations. On the DEC side, this means Vax-Station IIs (VS2), and on the IBM side, this means RT (RISC Technology) PCs.

Another special characteristic of development clusters is that they must be linked to the campus spine network. The Athena software is configured so that the workstation's hard disk has only the operating system on it; software libraries (compilers, databases, etc.) reside on a remote server, in this case a VAX 11/750. The workstation user gets access to these libraries by spinning up a remote virtual disk (RVD). The workstation's hard disk then acts as a cache while work is done locally.

TUNE INTO CABLE TV

T¹ une into channels 8, 9, 10, or 11 on MIT's cable television network almost any hour and you may well catch a Physics 8.02 lecture. Enroll in an MIT course offered at Woods Hole Oceanographic Institute, and attend class in an MIT classroom in Cambridge.

MIT's cable TV network provides service to the MIT campus: dorms, classrooms, lecture halls, lounges, laboratories, centers, and even administrative offices. More than 60 percent of the dorm rooms now have cable service, according to Randy Winchester, Assistant Transmission Manager for MIT's Telecommunications Systems. Cabling goes on at the rate of about 2 dormitories each summer. With Ashdown, Baker, Bexley, Burton, East Campus and Random Hall remaining, another 2 are scheduled for this summer. The fraternities adjacent to the campus are next, although 4 fraternities on Memorial Drive are already cabled (Alpha Tau Omega, Delta Kappa Epsilon, Kappa Sigma, and Phi Beta Epsilon). Cabling has been installed



FOCUS ON: RANDY WINCHESTER

Randy Winchester, atop the Green Building, checks the microwave link to Woods Hole. As Assistant Transmission Manager, he oversees the operation of MIT Cable TV. Randy came to MIT on his birthday in 1982 from Ann Arbor, where he produced programming for community-access cable television and worked in broadcast television as a transmitter engineer. He has a degree in Communication Arts and Sciences from Western Michigan University. A typical day finds Winchester getting live broadcasts on the air, clambering through buildings installing cable, providing students with hook-up cables and converters, making up the next week's schedule.

most recently in Buildings E17, E18, E19, and 20 to service some of the laboratories, centers, and offices in those locations.

But service is not limited to the MIT campus. With its own microwave link between the Green Building and Woods Hole via a repeater station in Kingston, MA, MIT can provide live, two-way productions of classes so that students can not only "attend" a class given at Woods Hole without ever leaving the campus, but the instructor in Woods Hole can see and talk with students in the Cambridge classroom. This facility, which has been available only since February, would have been in place much earlier, but Hurricane Gloria tore down the repeater in Kingston just after it was installed.

APRIL 1986

MIT cable television is connected to the Harvard video system by a two-way microwave link. Programs sent from Harvard may be seen on MIT's channel 13, while programs sent to Harvard may be distributed to 25 locations using their Harvard Information Transfer System (HITS), and to six area hospitals using Harvard's microwave facilities.

(continued on page 2)

PLANNING FOR THE FUTURE

oday, in departments and offices across the MIT campus, there are 1000 personal computers being used for administrative

Simonides, initiated a project to develop a strategic plan for the future use of computer and communication technologies in the Institute's groups including the President and the Provost, the Academic Council, Information Systems managers, staff reporting to the administrative vice presidents, and a users group representing a cross-section of administrative personnel.

IN THIS ISSUE:

Athena Moves To Living Groups
Cable TV at MIT
Future of Administrative Computing
IS Spring Courses

i/s is published by MIT Information Systems, Room 11-315, 77 Massachusetts Avenue, Cambridge, MA 02139; (617) 253-6338. Inquiries and comments are welcome, and may be sent to this address, or via electronic mail to MEDIA@MITVMA or Media@Multics. We are working to make RVD service available in a coherent manner to all faculty developers who have requested development clusters. So far, this involves only DEC equipment. Because the IBM RT PC is so new, we still have a ways to go before all Athena software can run on it.

Those departments slated to receive VS2s in development clusters are: Aero & Astro; Civil Engineering; EE/CS; Materials Science & Engineering and Nuclear Engineering, a joint cluster; Mechanical Engineering; and the Probability Project, a joint endeavour of the Schools of Science, Architecture & Planning, and Engineering with the Sloan School of Management. computing. This number will most likely grow to between 1500 and 2000 by 1990, when essentially all the Institute's administrators will have acquired personal computers.

The dramatic increase in personal computers with its associated costs, the urgent need of departments to get timely and efficient access to data maintained in the central administrative offices, and the new technologies that make this possible suggest the need for new directions in MIT's approach to administrative computing. Responding to this need, Professor James D. Bruce, Director of Information Systems, with the support of Vice Presidents James J. Culliton, William R. Dickson, and Constantine B. .

administrative and business functions.

In the Fall of 1985, a team of consultants from Potomac Computer Corporation assisted an MIT team led by Isaac Colbert (Manager of Faculty and Staff Information Services in the Personnel Office) and Cecilia d'Oliveira (Assistant Director of Information Systems) in thoroughly examining administrative computing's current status and potential future directions.

The project was completed in mid-January, and its recommendations were delivered to the senior administration in a report entitled "A Proposed Administrative Information Systems Strategic Plan". During the last two months, the report has been under review by various A summary of the findings and recommendations may be found on page 2. Copies of the full report are available in IS Publications Sales, 11-209.

With the series of reviews by individuals and groups at the Institute well underway, implementation of the strategic plan has begun. A related article in this issue of *i/s* describes one program, which calls for the creation of three new positions, reporting directly to the administrative Vice Presidents (see page 3). Future articles in *i/s* will keep the community informed as the strategic plan unfolds.

PLANS CALL FOR FUNDAMENTAL CHANGE IN DIRECTION OF ADMINISTRATIVE COMPUTING

hree months of investigation into administrative computing at MIT, sponsored by Information Systems and the administrative Vice Presidents, recently culminated in a report entitled "A Proposed Administrative Information Systems Strategic Plan." Published in January, the report presents the major findings of this study. It describes a new model for computing, recommending tactics and programs for implementing the plan, and assessing the financial implications associated with implementation.

The following material is excerpted from the "Executive Summary," Chapter 1 of the report. Copies of the full report are available from **IS Publications Sales, Room** 11-209.

Major Findings

- Technology provides powerful information processing resources at reasonable and declining cost. An annual growth rate of 15% to 20% is projected for the acquisition of microcomputers in administrative areas. An estimated 900-1000 microcomputers and workstations are now used for administrative computing at MIT.
- No effective policies, procedures, standards or other management practices now control the proliferation of computers across campus. None encourage data access and sharing, provide computer skills training, or otherwise minimize busi-

ness risks in an increasingly decentralized computational environment.

- The present administrative applications portfolio is oriented heavily toward the support of central administrative functions and the ongoing operation of the Institute. It provides little support for strategic planning, other senior management activities, or the needs of academic departments and laboratories.
- The current accounting and budgeting processes do not directly provide the information necessary to analyze cost trends for central administrative applications.
- "Information consumers" throughout MIT want local control of their computing resources, and electronic access to the administrative information required to perform their administrative tasks. Many have purchased their own computers and have developed software to achieve this end, manually rekeying the required data.
- A widespread perception exists among information consumers that central administrative offices, including Information Systems, lack a "service attitude."
- Central administrative offices, who are clients of Information Systems, do not believe that their information system needs are now being met. A general sense of resignation was found, a sense that the future will show no change.

The Computing Model

Based upon these findings, the project team recommended movement toward an administrative computing scenario, a "coordinated model" that emphasizes several key factors.

A campus-wide network that is reliable, secure, and auditable is vital. It should support a standardized set of locally controlled workstations, central mainframes, software tools, and programming languages. This technology base is consistent with that evolving for academic computing at MIT, although not all the necessary hardware and software is commercially available yet.

Central Institute databases must be created that are electronically accessible. The central administrative offices would maintain them, serving as "custodians" - not owners - of the data.

Also necessary is an Institute-wide set of policies, procedures, standards, and other management practices governing data access, application development, capital acquisition, and resource management.

Information Systems and central administrative departments must work toward greater sharing of responsibility for developing business applications that serve the needs of those central administrative departments and of information consumers.

Tactics and Programs

twelve tactics with 38 inter-

dependent program recomof the strategic plan. Some tactics and programs must be addressed immediately to establish visible movement toward the computational model recommended in the report. Others depend upon the outcome of pilot projects to verify the feasibility of the computing strategy.

These tactics and programs fall into four categories:

- Communication of the plan throughout MIT.
- Personnel appointments essential to coordinating administrative computing activities, as the Institute makes orderly progress toward the new computing environment.
- Pilot programs and followon projects to ensure both initial and sustained momentum toward strategic objectives.
- Management practices for the creation, growth, and maintenance of the coordinated environment.

Conclusions

Without a coherent strategy for addressing administrative computing needs throughout the Institute, many departments have attempted to address their own needs. Academic departments, research laboratories, and some central administrative departments have purchased computers, developed software and databases, hired computer support personnel, and determin- will not occur without subed their own policies for managing these resources.

The lack of an institutional plan to coordinate these activities is producing a sub-The project team developed stantial and growing business risk. No mechanisms exist to

assure that appropriate hardmendations for initial support ware and software are being purchased. Proper management controls may not be in place to protect the investment in software development. Local information bases could be inadequate for their intended business applications. No checks are now made so that local data remains consistent with data maintained by the central administrative departments.

The risk will continue to grow if the Institute does nothing. However, effective coordination of the acquisition and business application of information technology will maximize the substantial investments already made, as well as those anticipated for the future. This will be evident in:

- Improvements in the timeliness and quality of administrative data through increased access, as discussed in this plan.
- Reduced duplication of administrative computing efforts.
- Improved communication between administrative and other offices.
- New business functionality.
- A sense of coherence and direction for the future of administrative computing.

Addressing the problems raised here will require fundamental change in the direction of administrative computing at MIT. This change stantial further investment in technology and people. We believe that this is necessary. It will carry significant benefits. It will set a standard of excellence in administrative computing for MIT.

CABLE TV (continued from page 1)

MIT also leases several hours of time each week on a transmitter at the Prudential Center. While this is presently used only to broadcast one way to Lincoln Lab, transmission is possible to any location that can see the top of the Prudential Center. Only a receiver costing about \$200, and a couple of hours to install it are required.

In addition to providing the physical network, the MIT cable television office handles the broadcasting of programs as well. Campus events may be advertised on the lobby screens by calling

Mr. Winchester. Departments that want to schedule programs should contact Mr. Winchester too, though if they need assistance in producing a program, the person to call is Lawrence Gallagher, Production Manager of Educational Video Productions, at (25)3-7603. A number of departments around the Institute have begun to acquire their own video equipment to record lectures and presentations. With an increase in the volume of live and taped material, Mr. Winchester anticipates growth in the number and variety of programs that will be broadcast over the campus network. Either videotapes or live productions may be scheduled, though a live production is considerably more complicated and should be scheduled two weeks ahead of time. Live productions are limited to areas where cable has been installed. Scheduling is handled on a first-come firstserved basis. The TV schedule is printed regularly on page 2 of Tech Talk. Contact Randy Winchester at (25)3-7431 or Randy@Athena. for more information about getting hooked up to the cable network or scheduling programs.

WANTED: NEWS COORDINATOR

MORE SOFTWARE

nformation Services is looking for a news coordinator to plan news flow for Information Systems. As editor of this newsletter, the position involves developing, editing, and evaluating news items with an IS or an MIT-wide computing focus, and working closely with our On-Line News system. To improve our level of service, we seek well-developed market research skills.

Are you a creative, energetic person with at least 3 years' combined experience in technical writing, journalism, or marketing/public relations? Do you have computing experience? If the answers are yes, we invite you to apply for this challenging job. Call the MIT Personnel Office, 253-4251 (job number A86-674).

CALLING ALL INTELS

Do you operate an Intel System 310 development system with the RMX or Xenix operating system? Fran O'Neill in the Sea Grant Program wants to hear from you. His aim is to establish an Intel user group to exchange information and coordinate support for this machine. Call Fran at (25)3-4434.

SORRY. WRONG NUMBER

MICROCOMPUTER CONSULTING 253-7686

COMPUTING ASSISTANCE OFFICE 253-4114

TRAINING SERVICES 253-0540

These phone numbers were printed incorrectly last time.

AILABLE FOR DISTRIBUTIO

The following software products are now or soon will be available through Information Services. If you would like to know more about this service, or have any questions or comments concerning software site-licensing, call Richard Scott at 253-1950.

	Software	Vendor	System	Status	Contact	Fee
	Emacs	Uniworks	VAX (VMS), VAX (BSD 4.2 UNIX)	Now Available	(1)	\$40(2)
	MicroTeX	Addison-Wesley	IBM PC family (DOS)	Call	(3)	Call
	Scribe PostScript Driver	Unilogic	Most DEC systems	Now Available	(1)	\$760(2)
	TranScript	Adobe	AT&T System V, BSD 4.2 UNIX	Now Available	(1)	\$240(2)
and	Fortran Library	Numerical Algorithms Group (NAC)	various	Call	(1)	(4)

(3) Call the Microcomputer Center at 253-6325. (1) Call Joan Bubluski at 253-1744. (2) Less \$40 if you make your own copy. (4) May be licensed at a reduced annual fee by ordering through IS.

NEW "ASST TO VP" POSITIONS

ew positions have been created in the offices of three vice presidents following review by MIT senior administrators of the Proposed Administrative Information Systems Strategic Plan. These positions, each entitled "Assistant to the Vice President, for Information Systems," will be filled, as a team, by July 1.

Each of the new positions will report directly to one of three Vice Presidents -James J. Culliton (Vice President-Financial Operations), William R. Dickson (Senior Vice President), or **Constantine B. Simonides** (Vice President and Secretary of the Corporation). The basic function of these positions is to provide overall planning and coordination of information systems activities in the administrative areas reporting to the Vice Presidents.

Of major importance will be the participation of the three individuals filling these positions as members of a team responsible for implementation of the strategic plan. This responsibility will include establishing and managing the work of task groups; developing and implementing policies, procedures, and standards for administrative computing; and coordinating computing plans in the administrative areas with other groups at MIT. A cooperative team spirit among the individuals filling these positions will be essential in carrying out the programs of the strategic plan.

Successful candidates will have a well-balanced complement of technical, managerial, and interpersonal skills. A good technical background for these positions should include experience and accomplishments in areas such as business analysis, project management, and computer hardware and software. However, technical competence, while important, will not be the determining factor by which selections will be made. Successful candidates should also have demonstrable achievements in administration and management, and a willingness to assume responsibility. MIT experience will be given high priority in the selection process. Finally, these individuals will be functioning in a crossorganizational, team-oriented environment. Therefore, negotiation and communication skills, as well as personal qualities such as leadership, creativity, and breadth of perspective are important factors in selection. And a keen sense of humor won't hurt! **Oualified** candidates who are employees at the Institute should contact their Personnel officers to apply for one of these positions. Persons who are not MIT employees should call the Personnel Office, 253-4251 (job number A86-695).

SPRING COURSES HAVE MORE THAN A SANDWICH FOR LUNCH! HANDS-ON

ach noontime during the month of April, Information Systems will present a free one-hour seminar on some aspect of computing. Bring your lunch and join us for this exciting series. The presentations are informal with plenty of opportunity for questions. Seminars begin at noon; locations are noted on the calendar below (full information is available in the IS Spring Course Brochure - see box). Novice or expert, spend your lunch hour nourishing your interests as well as your stomach.

TO GET THINGS STARTED

Introduction to the MIT Microcomputer Center. Tricia Kellison of the MIT Microcomputer Center will review the hardware, software, and services available at MIT's own microcomputer store, including the new LaserWriter service for producing near-typeset quality text and drawings from the Macintosh. Thursday, April 3.

WORD PROCESSING

Japanese Language Word Processing. Peter Poole, a graduate student who has studied in Japan, will present a software package that lets you write letter quality Japanese text using a conventional Mac and printer. Friday, April 11.

Introduction to Scientific Word Processors. Damon Bostick of the MIT Microcomputer Center will discuss how scientific word processing differs from standard wordpro, and review available micro software for producing scientific papers. Friday, April 18.

USER GROUPS

The BCS Macintosh Users Group. Learn from director Robert Hafer about the services that the Mac Users Group of the Boston Computer Society offers to BCS members, including public domain software and a monthly publication. Monday, April 7.

DEC User Group Resources. Shava Nerad of MIT Information Systems will tell you of the services available to users of DEC equipment through the DEC User Society (DECUS), the Boston Computer Society, and the new MIT-VAXSyM group for VAX system managers at MIT. Thursday, April 10.

An Overview of the Boston Computer Society. Come hear Jonathan Rotenberg, founder and president of the BCS, talk about the many activities and opportunities of the nation's largest non-profit computer users group. Thursday, April 17.

The BCS IBM Users Group. Judy Edwards of the Boston Computer Society users group devoted to the IBM PC will talk about the resources available to PC users through this organization. Tuesday, April 22.

APPLE COMPUTER PRESENTATIONS

Sherry Howlett of Apple Computer, Inc., will discuss and demonstrate software for the Apple Macintosh line of computers.

MacWrite and Microsoft Word. The Mac's most popular word processing packages. Wednesday, April 9.

MacDraw and MacDraft. Two packages from Apple for creating structured graphics such as flowcharts, architectural drawings, and forms. Wednesday, April 16.

Excel and Helix. Microsoft Excel is a powerful integrated package combining spreadsheet, graphics, and database features. Odesta's Helix is an innovative database package that allows you to store and retrieve text, numbers, and pictures. Wednesday, April 23.

MacTerminal and AppleLink. MacTerminal lets you use your Mac as a terminal to access mainframe computers and other micros. AppleLink lets you request assistance from Apple and exchange mail with other users. Wednesday, April 30.

LOTUS PRESENTATION

Symphony and Friends. At 12:00, Katie Quigley and Linda Fisher of Lotus Development Corp. will demonstrate their most powerful integrated package, Symphony, which combines spreadsheet, database, word processing, graphics, and communications for many business applications. Come early (at 11:30) or stay late (until 2:00) and try out Symphony and Lotus 1-2-3 on an IBM/AT, or JAZZ on a Macintosh. Tuesday, April 29.

GRAPHICS

DISSPLA. An introduction to DISSPLA, a mainframe package for programmers who want sophisticated graphics, given by

ALL SEMINARS BEGIN AT 12:00 P.M.

Bob Zaret of MIT Information Systems. Monday, April 14.

TELL-A-GRAF. Bob Zaret will introduce TELL-A-GRAF, a mainframe package for non-programmers that lets you create colorful detailed graphs with a few commands. Thursday, May 1.

AND MORE...

Inside Your IBM PC. Tricia Kellison and Joanne Larrabee of Information Systems will lead a tour of the insides of an IBM PC, to show you its parts and their functions. Friday, April 4.

Bulletin Boards and Kermit. Kermit is a software package that lets you connect to other computers from your micro using a modem. Jerry Burke and Joni Bubluski of MIT Information Systems will demonstrate how to use Kermit and other protocols to access local mainframes and bulletin boards, keep up with the latest developments, get help with problems, or download public software. Tuesday, April 8.

Getting Started with Project Athena. Marc Campos of Project Athena will give an overview of the history and goals of Project Athena. He will also outline procedures for getting an Athena account and starting to use Athena's text editor, formatter, and other programs. Tuesday, April 15.

Numerical Software for Microcomputers. Dorothy Zaborowski of Information Systems will demonstrate PC-MATLAB, a microcomputer package for matrix manipulations with graphics, and LINDO, a linear programming micro package. Friday, April 25.

Sidekick. Borland's Sidekick ushered in the idea of desktop utilities, which let you perform common office chores like updating a calendar, jotting down a note, or calculating a result without leaving your current computer application. Joanne **Costello of Information Systems** will demonstrate Sidekick. Monday, April 28.

Superkey. Another Borland product, Superkey lets you create keyboard macros and assign them to a single function key. You can run through a complex series of commands once, and then recall them with a single keystroke. Joanne Costello demonstrates. Friday, May 2.

TRAINING

eginning in April, IS offers a third round of training sessions. These hands-on classes last one or two days, or several half-days, and are open to the MIT community only. Tuition is charged, and advance registration is required. The sessions noted here are fully described in the IS Spring Course Brochure (see box below).

Introduction to the IBM PC. An application-oriented introduction to the IBM PC: its uses in routine business tasks and decisionmaking; evaluating hardware and software; overview of word and list processing, database management, spreadsheets, and graphics.

Introduction to DOS: the IBM PC Disk Operating System. Learn techniques for managing DOS, with special attention to the hard disk, menus, and personal help screens.

Introduction to Lotus 1-2-3. How to use 1-2-3's spreadsheet,

graphics, and database capabilities to create financial models, explore information management, and design your own applications.

Advanced Lotus 1-2-3. Review 1-2-3 advantages and disadvantages, and apply advanced 1-2-3 techniques to produce superior applications. Learn to combine, import, and translate data from other programs, and to create macros for quick and easy number manipulation.

Introduction to Symphony. Complete guide to the integrated features of Symphony: spreadsheet, word processor, graphics, lists of information, communications, and integrating these features.

Introduction to Word Processing on DECmate II. Learn simple and advanced editing features, print single and multiple letters, and use libraries. Limited to MIT staff and support staff.

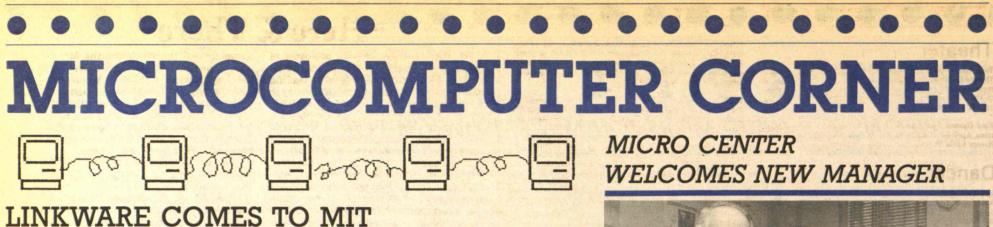
Advanced Word Processing on DECmate II. Advanced techniques for MIT staff and support staff DECmate II users.

Introduction to Multiplan. Learn how to use this spreadsheet program on DECmate equipment, with no prior knowledge of spreadsheets or DECmates. Limited to MIT staff and support staff.

5 2 3 4 1 APRIL Intro to the MIT Inside Your IBM/PC Micro Center W20 West Loung 13-1143 12 7 6 8 9 10 11 BCS Macintosh Bulletin Boards MacWrite and Japanese Language DEC User Group Word Processing Jsers Group and Kermit Microsoft Word Resources 3-1143 1-390 13-1143 3-1143 13-1143 17 19 15 18 13 14 16 Scientific Word Getting Started on MacDraw and Boston Computer DISSPLA Graphic Project Athena MacDraft Society Processing W20 West Louns 1-390 W20 West Loung 13-1143 13-1143 26 2021 22 232425 BCS IBM Users Numerical Micro Excel and Helix Group 13-1143 Software 13-1143 ASSOVER PATRIOTS DAY 13-1143 29 Symphony 12:00 27 28 30 Mayl May 2 MacTerminal and hands-on tryouts 11:30-12, 1-2 Sidekick TELL-A-GRAF SuperKey Applelink 13-1143 13-1143 W20 Mezz.Loung 13-1143 1-390

IS COURSE BROCHURES

For complete information on course offerings, see the IS Spring Course Brochure, which describes both seminars and training sessions, their dates, locations, and requirements. Copies of the brochure have been mailed to all MIT staff offices. Pick one up in the Micro Center (Room 11-209) or the Computing Assistance Office (Room 31-314), or call Joan Bubluski at 253-1744. •



inkware, developed and marketed by Linkware Corporation, is a communications package for file transfer and terminal emulation between microcomputers and DEC VAX or IBM hosts. At MIT, it is now installed on the IBM MITVMA mainframe, and several other administrative computers managed by Information Systems. On the microcomputer side, Linkware is currently available for the IBM PC (and compatibles), DEC Rainbow and DECmate II, WANG Professional Computer, and Data General/One portable.

Linkware is easy to use, and can be easily tailored. It handles both text and binary files, does error checking and error recovery during transfers, and lets you create batch files for repetitive processes.

Linkware's terminal emulation facility lets you use a micro as a DEC VT100 or IBM 3101-type terminal. The communications facility gives you access to the dial-up services of a host system, and lets you communicate with other microcomputer users through the host. IBM PCs equipped with IRMA boards for 3270 terminal emulation have their own special version of Linkware for connecting to the mainframe.

Linkware is currently being used at MIT for administrative applications with stringent security requirements. The Budget, Personnel, and Pension Accounting offices connect their micros to mainframe hosts for terminal emulation and file transfer. Administrative Systems staff members take advantage of Linkware's secure file transfer facility to move files between restricted administrative machines. Academic departments can use it in conjunction with MAPPS to get monthly account information

from the Statement Display System (watch for a future article on the Linkware/MAPPS/SDS connection).

In order to use Linkware, your microcomputer must have an MS-DOS or CP/M operating system, a minimum of 256Kb of memory, and two disk drives. An asynchronous communications port is also necessary.

Linkware for the IBM PC, and its documentation, can be purchased from Publications Sales in the Microcomputer Center (Room 11-209). For information on Linkware for other machines, contact Jules Hurwitz at 253-7020.

IBM

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List

Price

495.00

195.00

125.00

500.00

495.00

695.00

264.00

84.95

69.95

109.95

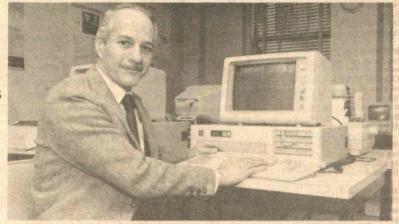
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On March 26, John J. DiMiceli joined Information Services as Manager of the Microcomputer Center. A former Peace Corps volunteer, he holds a Masters degree in Public Administration and has worked in computer sales as well as public sector management. He sees the Microcomputer Center as the focal point for a broad range of services and support to the faculty, students and administration. DiMiceli believes that there are many microcomputer applications that haven't been developed, explored, or even thought of. He hopes to find creative ways to support members of the MIT community in exploring these new uses of the personal computer.

MIT JOINS APPLE CONSORTIUM

n March 17, Apple Computer announced that it had extended membership in the Apple University Consortium to MIT and 7 other universities. The consortium is a group of 32 leading colleges and universities that work with Apple on development of educational applications. Besides providing increased access to Apple developers, membership in the consortium provides MIT with favorable pricing on Apple products.

IBM

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Our

Price

CONSULTANT'S HOTLINE



icrocomputer Center consultants often hear similar questions from different people. Each issue of this column will feature a few such questions and their answers, gleaned from our consulting logs. For answers to your own micro questions, call 253-7686.

I'm an IBM PC owner who recently purchased a serial printer. How do I use the serial printer with the RS232 serial adapter?

A: Your PC normally thinks printer, so you have to re-direct it to the serially-connected printer. This requires using the DOS command MODE with two different sets of options; for example:

- n sets the parity to odd (o), even (e), or none (n); in our example, it is set to "none"
- 8 this parameter sets the databits to either 7 or 8
- 1 this sets the stopbits; use 1 unless the baud rate (above) is 110, then use 2
- **p** indicates that your printer is a serial device

In the second MODE command, "lpt1" is the printer address, where 1 is used in the example, but it can be set to 2 or 3; The "=com1"means that any output directed toward the printer at address "lpt1" will go to the serial adapter "com1", and thence to the serial printer.

These MODE commands by themselves are not enough to work with laser printers (usually serial devices), unless your printer driver supports XON/XOFF.

For further information on the MODE command, refer to Chapter 8 of the DOS manual.

What are the key sequences that will let me manipulate the cursor?

A-Press the COMMAND key, marked with a [H], and the appropriate letter key to get

GET MORE OUT OF YOUR IBM PC !

The MIT Microcomputer Center has in stock a variety of software packages to meet your applications and programming needs. If we don't carry what you are looking for, we can special-order it from a large selection of other packages.

You're not sure which package is the right one for you? Come in, talk to our consultants and try out packages from our Software Library on one of our machines!

Cornerstone (database management system)	356.00
Epsilon (emacs-like editor)	140.00
KEDIT (XEDIT-like editor)	108.00
Kermit (communications/file transfer/terminal emulation)	5.00
Lattice C (compiler)	360.00
Linkware (communications/file transfer/terminal emulation)	55.00
Linkware (reproduced manual for lower price)	19.70
Lotus 1-2-3 (for IBM PCs and Lotus-certified compatibles)	217.80
Lotus Symphony (for IBM PCs and Lotus-certified compatibles)	305.80
Notebook II, including Bibliography (file manager)	190.00
PC/IP-ETHERNET programs, including PC/IP User's Guide	12.00
PC/IP Source Programs, includes User's Guide and	55.00
Programmer's Manual	
Sidekick (desk accessories)	60.00
Superkey (file security/macros accessory)	50.00
Turbo Pascal (compiler)	80.00

We also carry IBM reference manuals, modems, surge suppressors, diskettes, diskette storage cases, printer ribbons, computer paper and more! Call Publications and Software Sales at ext. 3-6325 if you have any questions about ordering software and accessories.

MIT MICROCOMPUTER CENTER

Room 11-209, open 11:00-3:00 weekdays Microcomputer Center Consultants, ext. 3-7686 mode com1:9600,n,8,1,p mode lpt1: = com1

The first MODE command initializes the communications protocol parameters of the serial adapter, according to the requirements of your printer; check these requirements in your printer manual. The second command actually re-directs printing from the parallel to the serial device.

Here is an explanation of the six parameters set by the first MODE command:

com1 "com" sets the number of the serial adapter, which is either 1 or 2

9600 sets the baud rate or speed at which the printer operates; this can be 110, 150, 300, 600, 1200, 2400, 4800, or 9600; check your printer manual for this and the next three parameters the desired action:

COMMAND H to move the cursor back one space COMMAND I to move the cursor to the right of the next nearest tab setting

COMMAND J to move the cursor down one line (linefeed) COMMAND K to move the cursor down two lines COMMAND M to move the cursor to the beginning of the line

To move the cursor to a new position in a file, use the mouse to locate the arrow at the position where you want the cursor to be. Click the mouse once, and immediately press the OPTION key; the cursor will move rapidly to the position on which you clicked.

While we're on the subject of terminal emulation, the ENTER key signals a break to the mainframe. You can use it to "break" on a VAX or Multics; do not "break" while on CMS. Chinese Intercollegiate Choral Society* - Meets Suns, 3-5pm, Rm W20-491. Currently rehearsing Chinese folk songs. Free voice lessons and music theory class, 1pm.

Theater.

Tech Show '86: Diamonds in the Rough* - MIT Musical Theatre Guild original musical comedy, written and directed by students, April 4-5, April 11-12, 8pm, Student Ctr Sala de Puer-to Rico. Admission: \$3/MIT students; \$4/students & seniors; \$5/MIT staff; \$6/general.

End Games Auditions** - MIT Community Players audi-tions, April 6-7, 7-9, Rm 24-407. Performances May 15-17, Spm; Kresge Little Theatre. Information: Elliott Bradshaw, 489-4179.

Dance

Ecstatic Indian Poetry and Dance^{*} – Robert Bly, American poet and Neena Gulati, Indian classical dancer, Sangam (MIT Indian Student Association presentation, April 6, 2pm, Kresge Auditorium. Tickets: \$4/students w/D; \$7/general. Advance sales: 964-7448 or from Concert Charge, 497-1118.

MIT Ballroom Dance Club Workshops⁶ – April 6: Beginn-ing Tango, 12:30-1pm; Intermediate Foxtrot, 1:30-2:30pm; Ad-vanced Swing, 4-5pm, Burton Dining Hall. April 13: Beginning Cha Cha, 12:30-1pm; Intermediate Tango, 1:30-2:30pm; Advanc-ed Foxtrot, 4-5pm. All classes at Student Ctr Sala de Puerto Rico unless otherwise indicated. Admission: Beginning – \$.25/members, \$.50/non-members; Intermediate – \$.50/members, \$1/non-members; Advanced – \$2/members, \$3/non-members, Idvanced – \$2/members, \$3/non-members. Info: x5-9171 dorm.

Western Square Dancing* - Tech Squares Club Level danc-ing and rounds, Tues, 8-11pm, Student Ctr 2nd Floor. Dennis Marsh, club caller & instructor; Veronica McClure, club cuer. Recorded info: x5-9126 dorm.

MIT Dance Workshop Classes** – Beginning Modern Dance Technique, M/W, 3-5pm, DuPont T.Club Lounge; In-termediate Modern Dance, T/Th, 5:30-7pm, Walker 201; Im-provisation, Th, 1-3pm, Walker 201.

MIT Contemporary Dance Club* – Cynthia Mallick, instruc-tor, Aerobix, M/W, 6:30-7:30pm; Jazz I/II, M, 7:30-8:30pm; Stretch, W, 7:30-8:30pm; Rep, M/W, 9-10pm. Classes at: M, 6:30-8:30pm, McCormick Gym; W, 6:30-8:30pm, W31; M/W, 9-10, T-Club Lounge. Fee: \$3/single class, \$4/non-MIT. Info: call con 2003. 723-7081

Children's Dance Classes** - Pamela Day, instructor. Creative Movement/Modern Dance classes for children ages 3-8, Fri: Ages 3-4, 2:30-3:15pm; Ages 5-8, 3:30-4:30pm, West Campus location. Great for boys & girls; excellent opportunity for non-English speaking children. For info & registration, call Pamela, x3-5791, T/Th mornings or 648-4834 eves/wkends.

MIT Folk Dance Club* - weekly dancing-Sundays, Interna-tional Dancing, 7:30pm, Student Center Sala de Puerto Rico; Tuesdays, Balkan and Western European Dancing, 7:30pm, Rm 407 Student Center; Wednesday, Israeli Dancing, 7:30pm Sala de Puerto Rico.

Rhythmic Gymnastics Classes for Women* - MIT Women's League classes, Fri, 12-1pm, Rm 10-340. Info: Helena, 596-2396.

Yoga* - ongoing classes in traditional Hatha and Iyengar style Beginners: Mon, 7:20pm; Intermediates: Mon, 5:45pm. For infor-mation call Ei Turchinetz, 862-2613.

Exhibits

COMMITTEE ON THE VISUAL ARTS Albert and Vera List Visual Arts Cen Jerome & Laya Wiesner Building 20 Ames Stre

Hayden Gallery - Alvar Aalto: Furniture and Glass. The 40 pieces of furniture, 25 glass objects and 35 drawings on view demonstrate Aalto's sensitivity to individual materials, respect for regional traditions and simple timeless forms in an integration of architecture and design. Through April 13.

David and Sandra Bakalar Sculpture Gallery - Alexander Calder: Artist and Engineer, through April 13.

The Reference Gallery - Alternatives to Modernism. Ex-hibition surveys the work of Portuguese architect Alvaro Siza who works outside of mainstream postmodernist trends. Through April 6.

THE MIT MUSEUM

MIT Museum Bldg - Calvin Campbell: A Photographic Perspective of MIT, Retrospective show commemorating the retirement of MIT's News Office photographer for the past 12 rerspective of M1, Retrospective and workshows and we have a show officie photographer for the past 12 years, through July 31. A Continental Eye: The Art and Ar-chitecture of Arthur Rotch, 166 watercolors in which the 19th-century Boston architect recorded his impressions of Europe and the Near East between 1871 and 1892, through April 5. Sculpture by Beverly Benson Seamans, through July 26. Ansel Adams: Photographs Approximately 60 prints from the collection of Ron Kurtz, MIT Council for the Arts, show Adams' control of technique and technology to support a whol-ly personal and internal vision, April 9 through July 31. Open-ing reception April 8, 5-7pm followed by slide lecture – Ansel Adams and the Precision of Vision by John Holmes. Of Aerostatic Machines: Early Ballooning in France and Bri-tain, Prints from MIT's Vail Collection illustrate the develop-ment of ballooning as a science and sport including fanciful in-ventions for steering balloons, and aerial views of Paris and other cities, through April 12. Three Photographers, photos by Linda Cuccurullo and Gordon Thomas (MIT Libraries staft), and Carolina Salguero (formerly of MIT Dept of Architecture), Carolina Salguero (formerly of MIT Dept of Architecture), through April 19. Minor White: Photographs, 102 prints dating from the 1930s to 1968, through March. Ongoing extating from the 1500s of 1500s, in 1500s, and a stating to a stating the stating of the stating to a stating exposure photographs. In 1938 he began doing stories for Life magazine. Light Sculptures by Bill Parker '74, A synthesis of

project began, several of his ideas were incorporated into the ultimate plan by his successor, William Welles Bosworth. Hall exhibit case across from 14N-118.

Monhegal Still Lifes - through May. Architecture & Planning Computer Resource Laboratory sequential exhibit of photo-graphs by S. Leland Smith, teacher of filmmaking and photo-graphic darkroom skills at the MIT Student Art Association. rs: M-F, 9am-5pm, Rm 9-514

Profile: A Detour Through MIT – Selected artworks by Jennifer J. Lin in honor of Women's Week, Wiesner Student Art Gallery, Student Ctr 2nd Floor, April 7 through April 20. Funded in part by the Council for the Arts at MIT.

Jerome R. Wiesner Student Art Gallery – for 1986 schedul-ing, any MIT student or student group interested in showing or performing art in the Gallery, call Andy Eisenmann, x3-7019 in Rm W20-429, M-F, 9-5.

Sports

Sports HOME EVENTS: April 2: W's Softball vs Clark, 3:30pm; M's Tennis vs Bowdoin, 3pm; M's Volleyball vs Brown & Yale, 5pm. April 3: W's Softball vs Harvard, 3pm. April 4: M's Tennis vs Colby, 3pm. April 5: Baseball vs Dartmouth, 1pm; M's Hwt Crew vs Columbia; W's Crew vs UNH, Northeastern, Radcliffe; Lacrosse vs Nichols, 2pm; Sailing, Northern Series II Regatta, 12noon; M's Tennis vs Dartmouth, 1pm. April 6: Baseball vs Tufts (2 games), 1pm; Sailing, MIT Invitational, 10am; M's Ten-nis vs Penn State, 2pm. April 9: W's Softball vs Framingham State, 3:30pm. April 10: W's Softball vs Suffolk, 3:30pm; M's Tennis vs Mt Holyoke, 3pm; Track vs Springfield, 4pm. April 12: Baseball vs Coast Guard (2 games), 1pm; M's Lwt Crew vs Dart-mouth, Harvard (Biglin Cup); Golf vs Colby, Tufts, 1:15pm; Lacrosse vs Trinity, 2pm; Sailing, Geiger Trophy, 12:30pm. April 13: M's Hwt Crew vs Coast Guard; W's Crew vs Columbia, Rutgers; Sailing, Greater Boston Championships (Oberg Trophy), 10:30am. Trophy), 10:30a

Wellesley Events

Jewett Arts Center^{*} – Recent Acquisitions and Alumnae Gifts, through June 8. Major Drawings From an Alumna Collection, recent acquisitions from the collection of Dorothy Braude Edinburg 42, through June 8. Contemporary Prints from the Permanent Collection, continuing. Francesca Woodman: Photographic Work, April 9 Ithrough June 8.

Careers Panel: History** - History Dept/Ctr for Women's Careers "Your Major and Your Careers" Series, April 2, 7:30-9pm, Library Lecture Rm.

Coming Home to Self, Going Home to Parents: Disclosure of Lesbian Identity** - Lennie Kleinberg, EdD, Stone Ctr, Women's Psychological Development: Theory and Application Seminar, April 2, 8pm, Science Ctr Rm 377.

Become Men: Learning New Male Roles* As Boys Cooper Thompson, visiting research is cholar, Ctr for Research on Women Luncheon Seminar, April 3, 12:30-1:30pm, Wellesley College Ctr for Research on Women, 828 Washington

Women Poets of Latin America: Poetics and Poetry** – Marjorie Agosin and Joy Renjilian-Burgy, Wellesley Col-lege, Latin America Today: A Wellesley College Symposium featuring poets Cecilia Vicuna (Chile-NY) and Rosario Marales (Puerto Rico-Cambridge), April 3, 7pm, Pendleton Rm 105

How Not to Get Cut by the Competitive Edge: Uses and Abuses of Competition** - Wellesley College ACCESS Event, Abuses of Competition** April 3, 7pm, Munger LR.

A Midsummer Night's Dream* - April 3-5, 8pm, Shakespeare House. Admission: \$3.

The US, Central America and the Caribbean: The Issues and the Alternatives^{4*} – Keynote Address: Prof Abraham Lowenthal, U of Southern California, executive director, Inter-America Dialogue, Latin America Today: A Wellesley College Symposium, I April 4, 7:30pm, Science Ctr Rm 377.

Organ Concert* - Renaissance and baroque music on the Fisk organ by James Christie, April 4, 8pm, Houghton Memorial Chapel.

Kurt Weill in Lights* - Cabaret style concert performed by German, French and English with piano accompaniment, April 4 & 6, 8pm, Jewett Rehearsal Rm.

onial Literature: Witnessing History** - Lorraine Roses, Wellesley College, and Teresa Mendez Faith, St. Anselm College, moderators, Latin America Today: A Wellesley College Symposium Panel Discussion, April 5, 9:30am, Science Ctr Rm 377

Debt, Development and Democracy: South America's Dilemma** – Monica Peralta Ramos, Argentine Embassy, Washington, DC; Benjamin J. Cohen, Wm L. Clayton Prof of International Economic Affairs, The Fletcher School of Law and Diplomacy, Tufts University; Prof Eliana Car-doso, Boston University, Latin America Today: A Wellesley College Symposium, April 5, 11am, Science Ctr Rm 377.

Networks** - Panel Discussion, Wellesley College ACCESS Event, April 5, 9:30-11:30am, Science Ctr Rm 277.

Concert* - The Wellesley Widows, Close-harmony a cappella concert with the Stanford Fleet Street Singers, the Harvard Krokodiloes and the Princeton Nassoons, April 5, 8pm, Houghton Memorial Chapel.

Luncheon Seminar[®] – Aida Bortnik, co-script writer, The Official Story, Latin America Today: A Wellesley College Symposium, April 7, 12:15pm, Green Hall Rm 329. Bring a bag lunch.

Reflections on Life in Nicaragua Today* - Maurizio Viano, asst prof of Italian, Wellesley College, Latin America Today; A Wellesley College Symposium Luncheon Seminar, April 8, 12:15pm, Green Hall Rm 329. Bring a bag lunch

←Here & There→

Dr. Walter H.G. Lewin, professor of physics, has received a prestigious invita-tion to address many of the world's leading astrophysicists at Princeton University in a series of five lectures. The series, which is given almost every year, features observational astronomers—in this case, Dr. Lewin —who discuss topics of personal interest.

Dr. Lewin has returned to MIT after a full year as a visiting professor at the Max-Planck Institute for Extraterrestrial Physics in Garching, West Germany. His stay was made possible by a John Simon Memorial Guggenheim Fellowship and by an Alexander von Humboldt award made to Dr. Lewin for his scientific accomplishments as a pioneer in X-ray astronomy.

Professor Lewin said he will draw on his work overseas for several of his five lectures. One will be for a general physics audience, while the others, for astrophysicists and astronomers, will be on specific topics. These will include recently observed-and still unexplained-quasiperiodic oscillations in X-ray stars ("a new and hot topic"), and the phenomenon of nuclear explosions on the surface of neutron stars.

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Professor Harold E. "Doc" Edgerton wears his medals well, having received so many honors and awards over the years. The most recent was his induction into the National Inventors Hall of Fame for his invention of ultra high-speed photography. The patent for the specific invention cited in the award, "Stroboscope," was issued Aug. 16, 1949.



The Inventors Hall of Fame was established in 1973 by the US Department of Commerce to honor individuals who have made great contributions to the nation's welfare through patented inventions that have advanced the nation's technology. Thomas A. Edison became the first member of the Hall of Fame and since then 63 other inventors have been added to the ceremonial hall, located at the US Patent and Trademark office in Arlington, Va., outside Washington.

Professor Edgerton joins two other MIT faculty members in the Hall of Fame, Dr. Jay W. Forrester, Germeshausen Professor of Management, inducted in 1979 for his development of core memory, which became the standard memory device for all digital computers, and Dr. Charles Stark Draper, Institute Professor Emeritus and professor of aeronautics and astronautics, emeritus, inducted in 1981 for his invention of gyroscopic apparatus that led to inertial guidance systems used on aircraft. submarines, missiles and spacecraft.

associate with the winter months. Mendelson, of the Earth Resources Laboratory in the Department of Earth, Atmospheric and Planetary Sciences, was a member of an international team of 22 scientists who spent 50 days at sea investigating how a land mass there was torn in two more than 8 million years ago and a new oceanic basin (the Mediterranean) formed.

Their drill ship drilled 11 holes into the seafloor in water depths up to 11,550 feet, penetrating more than two miles of sediment and rock. Mendelson, the mission's logging scientist, was responsible for designing and implementing the program by which in situ data was acquired from each of the drill holes through remotesensing equipment lowered into them.

-0-From the Department of Chemistry:

Dr. Sylvia T. Ceyer, assistant professor of chemistry, has been awarded an Alfred P. Sloan Award-a total of \$25,000 -for two years of research support.

Dr. K. Barry Sharpless, professor of chemistry, will be the first recipient of the Dr. Paul Janssen Prize for Creativity in Organic Synthesis. The prize, consisting of a medal and a cash award, will be given every other year to an organic chemist under the age of 50.

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Dr. Ky T. Lowenhaupt, a postdoctoral fellow in the Department of Biology, recently was awarded a research grant by the National Arthritis Foundation to advance the study of the rheumatic diseases. The foundation, which makes such awards to promising scientists across the nation, has given more than \$700,000 in grants in 1985-86 to medical researchers in Massachusetts, the largest amount for any state. Dr. Lowenhaupt is working on a study entitled "Mapping of Chromatin Structure: Z-DNA Potential Sites." She received her BA in chemistry from Carlton College and her PhD from the University of Cincinnati in 1979.

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PRESS CLIPPINGS:

-Dr. Richard C. Mulligan, assistant professor of molecular biology, plays a leading role in a seven-part Chicago Tribune series on gene research, titled "Altered Fates: The Promise of Gene Therapy." One article calls Professor Mulligan "a sprinter on the fastest track in medical science." In another article, Dr. David Baltimore, Nobel Laureate, professor of microbiology and director of the Whitehead Institute for Biomedical Research, offers a cautionary note: "There are still technical impasses which make even the first demonstration projects [in gene therapy] an uncertain distance in the future." The series also notes that another MIT Nobelist, Dr. H. Gobind Khorana, Alfred P. Sloan Professor of Biology and Chemistry, "was the first to make an entire functioning gene by hand.

-Dr. Robert C. Merton, J. C. Penny Professor of Management, told The Boston Globe that the surging stock market was likely to be "selective in its impact on consumption. . .[It] may make people feel better, but for the vast majority of people it won't have too much effect.'

-Also in the Globe, architecture critic Robert Campbell cited MIT's Baker House and the MIT Chapel-by Finnish-born architects Alvar Aalto and Eero Saarinen, respectively-as two of the best university buildings in the Boston area. He described Baker House as "a dorm whose brick walls undulate like the Charles River it faces. It is remarkably inventive in every aspect, yet always serene." The chapel, he wrote, 'is a tiny brick cylinder that looks trivial from the outside, yet, within, creates a theatrically religious and meditative atmosphere.

scientific knowledge and artistic composition gives expression to these changeable, touchable plasma sculptures. Hours: Weekdays 9am-5pm, Saturdays 10am-4pm.

Compton Gallery – Nihonga: Contemporary Japanese Paintings in the Traditional Style, Representative works by 48 contemporary Japanese artrists, through June 14. Hours Weekdays 9am-5pm, Saturdays 10am-4pm.

Hart Nautical Gallery

Ongoing exhibits: Currier & Ives Prints From the Hart Nautical Collections – Colored lithographs of sailboats, steam-boats, clipper ships and whalers. George Owen '94: Yacht Designer – Line drawings and half-models designed by one of the early professors of naval architecture at MIT. MIT Seagrant – A review of MIT ocean research; Collection of Ship Models – Half models and drawings: Historical view of the design and - Half-models and drawings. Historical view of the design and construction of ships

Edgerton's Strobe Alley - Exhibits of high speed photography. Main corridor, 4th floor

Corridor Exhibits

Corridor Exhibits: Building 1 & 5, 2nd floor: John Ripley Freeman Lobby, Building 4: Norbert Wiener, Karl Taylor Compton. Community Service Fund, Ellen Swallow Richards. Women at MIT. An overview of the admission of women at MIT. Five photographic panels with text documenting the circumstances that increased the number of women in the classroom since Ellen Swallow Richards. Building 6: Laboratory for Physical Chemistry. Building 8

OTHER EXHIBITS

Institute Archives and Special Collections – Planning the New Technology. Part Two: Constant Desire Despradelle. Part two of a three-part series about the relocation of MIT from Copley Square to Cambridge portrays the impressive design of architect and teacher Despradelle. Though he died before the

Writing is "In" at Wellesley* - Friends of the Library Discus sion on how today's students learn new writing skills, how the Library is involved and how the students like Writing 125, April 8, 4pm, Library Lecture Rm. RSVP at 235-0320.

Women's Protest in Chile Today* - Ximena Bunster, Chilean anthropologist and advisor to the Allende Govern-ment, Latin America Today; A Wellesley College Symposium, April 8, 7:30pm, Pendleton Rm 112.

Careers Panel: Philosophy* – Alumnae panel, Philosophy Dept/Ctr for Women's Careers "Your Major and Your Career" Pro-gram, April 8, 7:30-9pm, Library Lecture Rm.

Biography of Frida Kahlo* - Martha Zamora, Mexican art historian and artist, Latin America Today: A Wellesley College Symposium Slide Lecture, April 9, 4:15pm, Library Lecture Rm.

Careers Program: Dual Career Couples* - Alumnae & husbands, Wellesley College ACCESS Event, April 9, 7pm, Tower Court Great Hall.

Harriet Beecher Stowe^{*} - Prof Mary Kelley, Dartmouth College, Lecture, April 9, 7:30pm, Library Lecture Rm.

Perspectives on Separation and Agoraphobia^{*} – Mary Lou Randour, post-doctoral fellow, Ctr for Research on Women Luncheon Seminar, April 10, 12:30-1:30pm, Cheever House, Bring a bag lunch; coffee provided.

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

Send notices for Wednesday, April 9 through Sunday, April 20, to Calendar Editor Rm 5-111, before noon, Friday, April 4.

-0-

An MIT research scientist, James D. Mendelson (SM in geophysics, '84), recently returned from a two-month cruise to the Tyrrhenian Sea off southern Italy. But it wasn't quite the kind of cruise we usually

-The 1986-87 edition of the "Insider's Guide to the Colleges," published by The Yale Daily News, describes MIT's students as "notoriously pre-professional," reports the Globe.

New civil engineering program set

Engineering Systems and Computation (ES&C), a new educational track will be offered by the Department of Civil Engineering beginning September 1986.

The curriculum is designed for students who wish to acquire a broad engineeringbased systems and computation knowledge. It focuses on software and system-analytic tools for dealing with large and complex engineering issues.

The program prepares students for careers in such fields as engineering model building, applications software development, largescale systems analysis, engineering application of robotics and automation and data acquisition and processing.

The track also lays a general engineering systems and computation basis for people interested in careers outside engineering. These include graduate studies in business management, operations research, planning, engineering project management and further study in application areas such as transportation, energy, the environment and logistics.

Further information on the program may be obtained from the Civil Engineering Academic Programs Office, Rm 1-281, x3-7107.

CLASSIFIED ADS

Tech Talk ads are intended for personal and private transactions between embers 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 inappro-priate. MIT-owned equipment may be disposed of through the Property Office, x3-2776

INSTRUCTIONS: Ads are limited to one (of approximately 30 words) per per-son per issue and may not be repeated in successive issues. All must be accompanied by full name and extension. Persons who have no extensions or who wish to list only their home telephones, must come in person to Rm 5-111 to present In-stitute identification. Ads using exten-sions may be sent via Institute mail. Ads are not accepted over the telephone.

Deadline is noon Friday before Vehicles publication.

For Sale

Columbia 20" chld's bike, training whls, usd lttl, \$45 or bst. Bob, x8-2747 Draper, 8am-1pm

Full-sz Simmons sofa bed, Herculon cvr in green colrs, exc cond, usd v lghtly as both sofa & bed, askg \$175 or bst. Hank, x8-2319 Draper.

Bolens lwn mulchng mowr. 20" w/xtra tonite inc, gd trs, inspctd, ready to ride, blade. Leon, x8-4444 Draper.

Free: 1" plastc cylndr containrs w/attchd lids & specific gravity urine containrs. Ann, x3-6310.

JVC DD-99 3 head cass dck, microproce cntrlld, auto eglizatn & bias set, exc cond. \$300. Call x3905 Linc or 655-4871

Radio-contrlld Schluter helicoptr w/complt accessrs, exp the thrills of flight. Rich Maurer, x5-7238 dorm or x3-3161 for

Dirct-connct modm, Novation D-CAT, 300 baud, originate/answr full/half duplx, mntr, slf-tst, \$50; Centronics P1 prntr, 80 char/line, 2 lines/sec on alum papr, \$40. David, x3-7424 or 566-3441.

Richard Simmons VIP membrshp, 9 mos \$150, yrly renwl fee only \$50. Kathy, 889-1286.

COMPAQ prtbl pc, 640K, intrnl 22Meg hrdcard, 2 flppy drvs, clock, math copressr (8087), parallel port, game/joystck port, 2 serialports, int 1200 baud modm, Microsoft mouse, sftwr, \$2,300. Call x3-0921.

Sm PA, Peavey 120.4 chnl head & 2 custm cbnts w/3-10 spkrs ea, hrdly usd, \$300. Chris, x3-4963 or 472-7516.

Ethan Allen ktchn set w/leaf for round dinette tbl, gd cond, w/4 chrs, \$450 or bst; foldng bed, \$35; typwrtr, \$60; misc pces. Pat, x3-5048/5052 or 665-0034.

DR tbl, lrg, elgnt, w/6 chrs, \$550. Call 969-9106.

Casiotone CT-605 elec keybrd, 60 full-sz keys, 20 instrmntl voices, rhythm & accmpnmnt, rns on batts or AC cord (inc), sustain pedl also inc, br nw, retails for \$350, will sell for \$200. Karen, x3-6966 9-5pm.

Admiral frzr, 6.2 c.f, 4 yrs old, like nw, \$100. Tammy, x2579 Linc or 277-5481

Nw Sunfish (AMF) usd only 1X, \$800; also, 1 nw car rck for the boat. Mike, x183-203 Bates.

F mannequin, use to display your wearabl art or whatevr, grt cond, \$20. Lori, x3-0263 W/F or 266-9080, lv mssg.

Kenmore wshr, wh, \$75. Teri, x3-3087 or 729-3388

Usd furn: crib, chld's tbl & chrs, lounge chr & ottoman, teak & tile cffee tbl, teak lounge chr, twn bed frm & bx spr, lthrtoppd cffee tbl, humdfr. Al, x3-4177.

Backpckng tent, Trailwise, 3-seasn, 2-prsn, qlty rip-stop nylon, inc rainfly, shock-cord poles, mosquito-net dr & wndw, ground cloth, \$90. John Doty, x3-3169 or 489-3761.

315 firm

Br nw emerald & diamond weddng/ann-vrsary rng, 7 fine stones, \$250. Call 864-3648, lv mssg.

'83 Starcraft 24' galaxy hrdtop tnt trailr, Q. 2 dbls, gas/elec fridge, indr/outdr 3-brnr stv & dinette tbl, sink, wardrobe, drssr, awning, screen rm, seldom usd, exc cond, askg \$3,950. Call 688-1810.

W's 10-spd Schwinn bike w/Blackburn rck & seat bag, gd cond, ideal for commutng, \$125. Joe, x3-5982 aftr 11am.

W's 5-spd bike, baskts, lock, \$75. Call 494-5164 eves/wkends.

Kenmore apt-sz wshr, gd cond, \$75; parts for Honda Civic: mtr. trans, trs. bck drs. othrs. Inna, x3-1660 or 933-6422.

DR walnt buffet. DR pces: walnt buffet, 21"Dx60"Wx35"H, mtchng china cbnt, 19"Dx46"Wx72"H, w/3 beveld glss drs, circa 1940, \$450 for bth pces. Paul, x3-0996/0585.

Kenmore gas range/stv, \$150 or bst; oak ktchn cbnts, exc cond, \$650. Call x3-2449.

Piano, Chickering console, exc cound, \$1.200. Call x4840 Linc or 648-1838.

Violin by M. Heinicke, Bohemia 1905, exc cond, \$3,800. Michell, x5-6509 dorm.

Kustom PA, 130W head w/mntr & collums & cvrs, exc cond, \$500. A.M. Rug-gelo, x3894 Linc or 388-9957.

'69 Ford LTD hrdtop, only 63K, young in spirit, eng exc, rns perf, currnt insp stckr, bdy a mess, \$200. Sheila, x3-3278.

'70 BMW 2002, rns well, nw exh, brks & struts, 4-spd, std shift, cared for, \$1,200. Call x3-1557 or 354-1652 eves.

'72 Capri 2000 for parts, rns welll, lotsa rst; nw prts for same, usd Weber K452 carb, bst offr. Richard, x4785 Linc.

'73 Honda CB350, exc rnning cond, Kryponly \$350, mst sell fast. Call 498-3469.

'73 VW Bug, rns well, nds some wrk, \$200. Kim, x3-0967/6746 or 277-3738 eves

'73 Alfa Romeo GTV 2000 red cpe, 29K, orig ownr, btfl collctr's car, askg \$9,500. Nick, x3-6809 or 358-4698.

'73 Ford Torino, 30K, 8 cyl, exc cond, no rst, \$1,000 or bst. Jim, x2960 Linc.

'74 Ford Mustang, 4 cyl, 100K, trs/batt/radio gd cond, rlbl trnsprtn, \$450 or bst. Tommy, x3-5230.

'74 Valiant, 58K, V8, air, auto, 4-dr, exc cond, \$1,100. Harvey, x3-5265.

'74 Porsche 914, 1.8L eng, was superb, lost argumnt w/lmp post, nds frnt end cosmetics, br nw s/s htr box, exh sys, shcks, brks, cltch & more, 61K, exc eng, \$1,800 or bst. Craig, x3133 Linc or 484-2358

74 Ford Pinto wgn, nw trans, exh, rns well, bdy gd cond, \$500 or bst. Call 577-1637.

'74 Mercedes Benz 450SE, 4-dr sdn, gd cond, \$8,000. Tom, x4212 Linc or 245-9187 eves/wkends.

'75 Dodge Dart, slnt 6 eng, auto, rns grt, some rst, \$500 or bst. Call x3-8393 or 698-4523.

'75 Datsun 710 wgn, 75K, auto, AM/FM/tape, mny nw prts, cln, gd basic trnsprt, \$900. Cheryl/Mike, 643-6526 eves.

'76 Chevy Chevette, 38K, mnt cond, bright green, \$1,000. Bette, x3-4971.

'76 Mercury Bobcat, brwn, auto, nw rads, AM/FM stereo, only 61K, nw wtrpump, hoses, thrmostat, \$950 or bst. Demetri, x3-7906.

'78 Pontiac Grand Prix, 2-dr, ps, pb, auto, a/c, rads, AM/FM, 8 cyl, 70K, no rst, exc cond, \$2,395. Alan, x3941 Linc or 358-7615.

'78 Honda Goldwing, full drss, CB, air shcks, mny xtras, exc cond, \$2,200 or bst. Ross, x7206 Linc.

'78 Alfa Spider, CA car, AM/FM/cass stereo, 47K, gd cond, \$4,000. Call x8-4712 Draper.

'78 Chevy Monza, V6, auto, a/c, hatch, ps, pb, AM/FM, 80K, \$1,000. Call x3-0902 or 965-5035 eves/wkends.

'79 Fiat 2000 cnvrtbl, red w/tan int, frm FL, nvr rstd, a/c, cass stereo, exc orig cond, nw brks, batt & exh, \$2,950. Call x3-2048 or 1.934-6782.

'79 Honda Prelude, looks nw. bdy perf, nw Honda paint, rns btfly, mny nw prts, reg gas, pwr moonrf, 5-spd, 65K, \$3,500. Andrew, x3-7448.

Btfl Candlelight weddng gwn w/train, sz '79 Ford Econoline E-100 van, 6 cyl, 300

'83 Mazda 626 dlx, 2-dr cpe, ps, pb, AM/FM/cass, 45K, bl w/bl int, exc cond, \$6,250 or bst. Steve, x4359 Linc.

'83 Honda Civic, 5-spd, dk brwn w/tan int, grt cond, only 40K+, askg \$5,000 (bluebk#\$5,500). Dave, x8-4351 Draper or 264-9595 eves/wkends

'84 VW GTI, blck, lo mi, Kenwd remvbl, mny xtras, showrm cond, mst be seen to appreciate, \$8,000 or bst. Stephanie, x3-1501.

'84 Pontiac Fiero, SE, red, auto, pb, pw, a/c, lugg rck, AM/FM stereo, nw trs, 17K, askg \$9,200. Joanne, x7400 Linc or 721-2786 eves/wkends.

'85 Ford Escort, AM/FM/cass, 4-spd, Rus ty Jones, rear wndw defog, like nw, \$4,800. Bob, x8-1826 Draper or 372-8049.

'85 Mercury Topaz, like nw, loaded, inc extnded warr, \$8,500 or bst. Tom, x3-4978 or 749-6645.

Housing

Boston, Back Bay on Beacon St, 2BR lux condo w/frplc, prkg, in-bldg lndry, mod ktchn, blt-in shlvs, hdwd flrs, etc, avlbl for rnt 4/1. Call x3-7802.

Arlington, btfl rm in hm w/brkfst & dinnr. trnsprtn to Hrvd 9am avlbl or nrby bus, grdn, lndry, prkg. Jean, 495-2111 or 646-8298 eves.

Grafton, NH, approx 72 acre farm, no bldgs, view to Sunapee. Charlie, x4443 Linc or 263-3354 eves.

Wellfleet, Cape Cod, contemp cottage on sm pnd, 3BR inc loft sleeps 6, dck, frplc, min frm beaches, pnds, rstrnts, shps & gallries, avlbl by wk or mo, May thru Oct. Virginia, x3-5728.

Elgnt wtrfrnt livng: hseboat in Boston Harbr, convrtd "blck irn" rivetd hull 100 tugboat, 6 lrg rms, bet views in city, 2 full baths, ctrl heat, all utils, lng lease on pier, prkg, sec, exc financing, \$199,000. Call 567-4487, lv mssg.

Furn hse nr Hrvd Sq, subway, avlbl 6/18/86-7/4/87, BR, DR, LR, ktchn, 1½b, music studio, dck, grdn, \$1,200/mo inc utils. Earle/Ruth Lomon, x3-4877 or 876-7821.

Westport, MA, charmng hse w/guest hse lrg grdn, v priv, ideal for 1-2 cpls, \$400/wk, avlbl Aug, part of June or July. Call x3-2888 or 491-2921 eves.

Rockport vac hm. dirctly on Long Beach nw, 3BR, 2b w/jacuzzi, cmpltly eqppd ktchn, by mo or seasn, avlbl 6/1/86 or 4/15-10/15/87. Call x3358 Linc or 369-1529.

Medford, spacious 5rm apt, 1/2 bsmnt, yrd, off-st prkg for 2 cars, grad stdnts/pros pref, no pets, askg \$550/mo+ utils. Call 484-0036 6-10pm/wkends.

Sale/rnt: 2-wk time-sharing, accomodts 6, inc pool, jacuzzi, linen serves, etc, \$365/wk rnt or bst offr. Juanita, x3-6454.

Dennisport, 3BR yr-rnd hse for sur rntl, 1/2 mi to beach, \$490/wk. Nick, 864-9826.

S ME summr cottage on crystl clear Ken-nebunk Pond, perf for swmmng, canoeing, 2BR, chem toilet, no h.w. but elec & gas, and the Pond to bathe in, only 20 mins from ocean, June \$100/wk, July-Aug \$150/wk, pref 2 wk slots, for mo or w/seasn discnt. Kathy, x3-264i7 or 497-5525.

Cape Cod, vac rntl, W Hyannisport-Cape Cod, vac rhi, w Hyannispor-Centerville, 5 min wik to Craigville Beach, lvly, cln, 2BR cottage, sleeps 6, outdr showr, secluded priv spot, avlbl June, \$300/wk, July & Aug, \$400/wk; Bel-mont, 5rm, 2BR 1st flr apt, avlbl 5/1, no pets, refs. req, \$750/mo, no utils. Call 484.8418 484-8418.

Lexington, 3BR rnch w/lrg fmly rm, mod ktchn, nw bathrm, frplc, grg, exc cond, on quiet st, nr schl, \$1,000/mo+ utils. Call 863-5829.

Mashpee, Cape Cod, 3BR hm, lrg yrd, wlk to priv beach on John's Pond, \$325/wk June/Sept; \$375/wk Aug. Barbara, x3-5259, 965-9662.

3BR apt, cln, safe area, easily accssbl to MIT & H Med Area, \$750 or less for short trm lease. Call x3-3818 or 739-1661.

Animals

Dutch Pug, "Winston", 11/2 yr, neutrd, perf dispositn & wndrful w/chldrn, w/trolley run, bed, etc, mvng, \$85. Call x3358 Linc or 369-1529.

Wanted

Roommates

623-0963.

497-0988.

Non-smkng semi-coop, Somerville hsehld (2M, 1F) sks M/F hsemate, priv rm, wshr/dryr, yrd, v near Orange Line & buses to Ctrl Sq, avlbl immed. Call

Spacious furn rm to rnt nr Arlington Ctr. \$350/mo. Call x3-2895 or 648-7034.

Typng on IBM Corr Sel II or wrd pressng on Wang, theses, correspindic, propsls, books, resumes, tech papes, transcripti, free dsk storage, 17 yrs exp. Debbie, Apt to shr frm now-May 31 (or part of), Cambridgeport furn hse, 10 min wlk to MIT, \$300/mo. Don Gottfried, x3-7350 or

Lost and Found

Lost: roll of penoil on vellum architctrl drawngs, contains 2 projcts: library & a Quaker meetinghse, in Lobby 10, 3/12, v imprtnt to me. Contact Cyndi Solarz, x3-5078, Hubka Studio, Arch Dept, Bldg 7 4th flr, or lv at Coffeehse, Bldg 7 4th flr.

Found: key to Mazda, found 3/26. Call x3-7762.

Miscellaneous

cess MIT equipment for transfer within MIT. Unless noted, items are at the Equip-ment Exchange, 224 Albany St, open Tues Mel King for Congress, stdnts, faclty & staff volntrs nded for term/summr wrk on the campaign. Marc Miller, x3-8252. & Thurs, 11am-3pm. After 30 days, items

Typng on wrd pressr, any knd inc tech, rsnbl rates. Neelu, x3-4502.

Anyone having knowldge of incidnt invlv

Anyone naving knowledge of incidnt inviv-ing F stdnt who was struck by an exit dr or about 3pm, 9/19/83 in the trn-around area undr Bldg 39 (Microsystems Technology Lab) askd to contact Mr. Hen-

Wrd prcssng/editng, rprts, manuscrpts, transcrptns, dissrtatns, fst trn-arnd, rsnbl rates, lttr qlty, quantity discrts on lrg

Type thesis on wrd prcssr w/laser prntr,

10 yrs exp w/tech typng, rsnbl rates. Pat, x3-4878 or 489-4105.

Typng, all knds, done promptly & at rsnbl rate. Marianne, x3-1994.

The Property Office has the following ex-

pliers and editorial offices; supervising free-lance copyediting and proofing; and maintaining editorial procedures and

quality. Production duties will include scheduling; cost estimating and purchas-ing composition, printing, binding ser-

vices, and stock; providing regular pro-duction reports and cost summaries; and

ultiton reports and cost summaries, and maintaining production protocol and quality control of all outside suppliers. Will also work with in-house typesetting operation and supervise journals interface with system. Minimum three years pro-duction or production/editorial experience with either books, journals, or magazines neuvinol. Some measurement experience

required. Some management experience and word processing and/or microcomput-

er experience preferred. Strong organiza-

tional skills, ability to work with a varie-ty of projects and people, costing and budget experience, and ability to work

without direct supervision essential.

Technical Staff, Physics, to be in charge

of preparation and development of lecture demonstrations. Will work with physics

faculty, staff, and students. Bachelor's degree in Physics or Electrical Engineer

ing and broad knowledge of physics with a strong interest in teaching required. Ex-perience in teaching and a sense of the

esthetic qualities of demonstrations es

tial. Experience with mechanical and electrical construction techniques neces-

Technical Assistant, Physics, to assist

scientific staff in laboratory maintenance and development of physics experiments

in the third year laboratory for Physics

majors. Will have considerable interaction with students in all aspects of work; assist

students with laboratory experiments:

construct, operate, and repair experimen-tal and technical equipment; and assist in various physics teaching labs as needed.

College degree or comparable experience necessary. Familiarity with glassblowing,

vacuum systems, electronic circuit boards, cilloscopes, multichannel analyzers

drill presses and lathes preferred. C86-174

Assistant to the Vice President, for In-

formation Systems, to provide overall

planning and coordination of ad-ministrative computing activities for

organizations reporting to three Vice

Presidents. These new positions will report directly to their respective Vice

Presidents and will form the core of a

team that will implement the new strategic plan for administrative com-puting. Will establish and coordinate task

groups; develop and implement Institute-wide policies and standards; coordinate

computing plans in administrative organizations with other MIT groups; analyze information systems needs; and

advise and consult with the Vice Presi-

dent, line managers, and information con-sumers. A well-balanced complement of

technical, managerial, and interpersonal skills is important, as is a technical background including business analysis,

project management, and computer hard-ware and software. Prior management ex-perience and knowledge of university en-

vironment necessary. Excellent written and oral communications skills, demon-

strated effectiveness in team oriented

work, leadership, creativity, and breadth of perspective essential. Bachelor's degree or equivalent combination of education

Systems Programmer III, Sloan School

of Management, to provide primary systems support at the Sloan School Com-

and experience required. A86-695

A86-700

sary. C86-175

Surplus Property

businsses welcome. Susan,

neberry, x3-2822.

x3-3386.

prjcts.

494-1649.

POSITIONS **AVAILABLE**

It is Institute policy not to discriminate against individuals on the basis of race, color, sex, sexual orientation, religion, handicap, age, or national or ethnic origin in the administration of its programs and activities.

This list includes all nonacademic jobs currently available on the MIT campus. Duplicate lists are posted outside the offices of the Special Assistant (10-215) and in the Personnel Office (E19-239).

Information on openings at Lincoln Laboratory (Lexington, MA) is available in the Personnel Office.

Persons who are NOT MIT employees should call the Personnel Office on extension 3-4251.

Employees at the Institute should continue to contact their Personnel Officers to apply for positions for which they feel they qualify.

3-4267

3-4278

3-1591

3-4274

3-1594

3-4269

3-4275

3-4268

3-4268

3-4076

3-4077

Ken Hewitt

Oveta Perry

Dick Higham

Virginia Bishop

Appointmen

Kenneth W. Chin

Appointments: Maureen Howard

Administrative and

Applications Programmer, Electrical

Engineering and Computer Science, academic staff position for development of

relational database applications in head-

quarters offices of the Department. Initial

emphasis on redesigning existing ad-

ministrative database applications to run in a modern, distributed, workstation en-

vironment. A later objective will be the

creation of new and more flexible soft-ware tools. The system is expected to in-tegrate database applications, word pro-

cessing, and related management tools on

a local network of Micro-VAX-II worksta-

tions with graphics consoles and laser

printers. Three to five years programming

relational database systems important.

Experience with UNIX 4.2 desirable. Bachelor's degree preferred. C86-176

ackground expected. Experience with

Academic Staff

Sally Hansen

Kim Bonfiglioli

Appointments: Nancy Collins

Therese McConnell

Simon slide viewr, 3-lens sys, full-frame to extreme closeup, editng rack, vnyl cvr, also gd for viewng x-ray-sz unmntd film, usd only 1X, \$90. Anna, x3-1415.

2 BSO sgl tckts, B17 lft, frst blcny, Fri aftrnoon, 2pm, 4/4, 4/18. Margaret Petersen, 729-3250

Vintage Coke mach for bttls, wrkng cond, offrs wntd. Call x3-8973

Wden dsk, approx 30x50", v gd cond, \$35; wden drssr, wh, approx 5', 5 drwrs, gd cond, \$20; Rossignol 190cm skis w/Tyrolia bindngs, gd cond, \$95; ski rck for VW, \$10. Mike, 266-0301.

Wh Sears frzr, exc cond, \$50. Tom, x3-4978 or 749-6645 eves

Sanyo cmptr, 768K RAM w/IBM video emulatn, dual 800K Teac floppies MSDOS 2.11 bundld sftwr for wro wrd pressng, Fontrix, fancy fonts, emptr pckg \$700; w/Okimate 20 colr prntr, \$835. Joe, x183-208 Bates or 245-6600 x208.

30x48" DR tbl w/4 padded Breuer chrs, askg \$100. Call x3-4150 or 734-7072 excpt

14" Willis mahog pwr boat w/30hp elec-start Johnson motr & Shoreline trair, fine shape, \$1,100. Darryl, x7505 Linc or 692-6650

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stereo, cb, sunrf, bay wndw, cptn chrs & cocktail chr w/tbl, pull-out bed, ice bx & conts, fully insulatd, paneld & carptd, rfrck, laddr & towng hitch, 86K, exc bdy & trs. mst sell, \$3,500. Call x2811 Linc or 1-456-8886

'79 Dodge St Regis, ps, pb, a/c, tlt steerng, mnt cond in & out, rstprfd, eng 318, 75K, 60-40 frnt seat, pass seat reclines, mny xtras, \$3,000 or bst. Dave, x4318 Linc or 531-3122.

'80 Chevy Monza htchbck, 4-spd, nw batt exh, cltch, trs, no rst/dnts, 57K, \$2,100 or bst. Patty, x3-7750 or 891-5934 eves.

'80 Buick Regal Ltd, a/c, cruise cntrl, Chapman lck, tlt whl, nw brks & exh sys, AM/FM stereo, 64K, \$3,300. Call x3-7903 or 628-1878 aftr 5pm

'81 Dodge Omni, 4-dr. auto, rear wndw dfrst, Chapman lck, rstprf, nw rads, 42K, \$2,350 or bst. Call x3-7239 or 893-3373.

'81 Mercury Zephyr, exc cond, auto, v lo mi, askg \$4,999. Call x3-7914 or 782-1012.

'81 Kawasaki 305, blck, lo mi, blt drv, grgd, exc cond, nds nw batt, \$800 or bst. Elizabeth, x3-6809 or 259-8596.

'82 Ford EXP 2 seatr wh 47K rns & looks grt, no rst, loaded w/factry opts, first \$2,900 drvs it away. Tom, x3458 Linc or 692-7746 ev

'82 Subaru GLF cpe, 5-spd, bl, exc cond, 55K, \$4,200 or bst. Susan, x3-4266.

Trivial Pursuit - get 2 for 1: my Silvr Screen & All Star Sports eds for you Genus II, bth nvr usd. Bobby, 494-0432.

Old Fanny Farmer cookbook, early '60s ed Maria x3-2835

Garg space for vehicle storage & lght maint wntd by MIT grad stdnt. Eric, x3-3146 or 593-0926.

Vistng prof frm U of IL-Urbana sks exch of 4BR furn hse, gd school dist for 3-4BR hse in Boston area, beginning fall semstr. Albert Hsui, 217-333-7732 or Sara Brydges, x3-7797.

Vistng prof w/wife & 2 chldrn sk furn 2BR apt/hse nr MIT, summr June-Aug. Call 414-963-4987 or 414-964-6877 or lv mssg w/Edward, x3-3403/3435.

rntl 7/19-8/2, Brewster Dennis area, 2-3BR & yrd; usd strollr, lrg sz or dbl carriage. Laura, x3-13116.

Vistng rsrchr & wife nd 1BR apt to rnt w/ utils incl. Rainer, x3-0462 or Irene, x3-0245.

Vistng schlr sks p/t or temp wrk in MIT Community, now to end of Aug, can type, exp w/prnting & xeroxing. Gillian, 566-6255 eves

To charter a 25-30' sailing yacht for a wkend this summr, I am exp'd. Bruce, x8-3288 Draper or 329-2276.

Summr hse/lrg furn apt in Truro or Provincetown, for rnt or hse-sittng in Aug by 2 hm-owning adlts w/ refs. Call x3-3120 or 262-6234

Programm er/Systems Coordinator Personnel - Faculty and Staff Informa tion Services, to provide primary pro-gramming support for the information consumers of the Personnel and Employee Records System (PERS). Will develop, document and maintain programs related information for data retrieval, report generation, and other consumer needs, using Natural and Easytrieve; develop training materials and instruct novice users in the access to and opera-tion of the PERS database and its component subsystems; and assist in providing support for microcomputer application Personnel running on IBM PC-XT's ur PC-DOS and DECmate II's under CP/M. Bachelor's degree or equivalent combine tion of relevant experience and education and at least one year of experience with an IBM-based operating system, prefera-bly VM/CMS and with a microcomputer such as the IBM PC are required. Pro-gramming experience with a high-level programming language such as Natural, PL/1, Easytrieve, or FOCUS necessary. Ability to communicate effectively with a wide variety of information consumers throughout MIT as well as with informa-tion systems professionals and absolute discretion in handling confidential personnel information essential. A86-701

Journals Editorial and Production Manager, MIT Press, Journals, to b responsible for editorial coordination and production for five journals in a growing program. Editorial duties will include scheduling; trafficking manuscripts, galleys, pages, blues, etc., between

puter Facility for the following small com-puter systems: Xerox workstations (25) puter sys running three operating systems (Star of fice automation system, Xerox Develop-ment Environment, and Interlisp-D), as well as Xerox file, print, etc., servers; IBM RT PC's and AT&T 3B2's running versions of Unix; and IBM PC XT's runn ing PC-DOS. Will also serve as small system resource to Sloan School and will provide solutions to individual problems in such a way as to promote a network wide level of coherence between disparate systems. Ability to communicate well with both novices and experts and to adapt to a rapidly changing technical en-vironment essential. BA or equivalent and several years programming experi-ence. At least one year experience with one of the following operating systems: PC DOS. Unix, or Interlisp-D as well as programming experience in one high level languages such as REXX, C FORTRAN, PASCAL, or LISP required.

Associate Bursar/Student Accounts, Bursar's Office, to manage the Student Accounts Section of the MIT Bursar's Office. Will be responsible for about 9,000 accounts, totaling \$115 million last year, and supervising eight MIT employees. Will function as chief liaison on student matters with the Student Financial Aid Office, the Registrar's Office, and Deans' Offices. Will exemplify and instill in staff an attitude of caring, helpfulness, and collegiality, without loss of efficiency and ef-fectiveness. Ensure consistency and fairness of policies and procedures, develop and implement written communications

A86-691

elated routine biochemical assays. B.S. degree and one or more years experience in biological science research lab re quired. Ability to work independently on defined research projects important. R86-945

are sold to individuals. Where noted, bids and offers go to Tom Donnelly, Property Disposal Officer, E19-429, x3-2779, with

envelope so marked. Always reference case

number on envelope. MIT reserves the right to reject any and all bids.

Case 1692 - To inspect call Priscilla Cobb, x3-5997: Epson dot matrix printer, mdl MX-ll80 F/T.

Case 1685 - For sale by sealed bid. Bids

to be received by 4pm, EST, 4/18/86. To in-spect call Paul Gabriel, x3-4505: Troglia metal lathe, 15" swing.

Case 1698 - Transfer of MIT funds re-quired. To inspect call John McNeil,

Case 1705 - Transfer of MIT funds re

quired. To inspect call Bruce Russell, x3-3204: Linde wire feeder, mdl MIG-31A, Plus Linde mdl MT600 Torch and Mdl

Case 1709 - Transfer of MIT funds re

quired. To inspect call Virginia Pochetti, x3-4895: Redactron Corp word processor.

Case 1716 - Transfer of MIT funds required. To inspect call Mike Hale,

Case 1674 - To inspect call Joe Sincuk, x3-2541: Beach-Russ Co compressor w/in-duction motor & booster pump.

with students and parents, other MIT of-fices, and outside sponsoring agencies.

Handle those inquiries and complaints

which are special cases with potential im pact on Bursar's Office policies or "image

Regularly review the status of financial delinquencies, and develop and imple-ment procedures for minimizing them.

Counsel students with financial problems Master's degree or equivalent combina tion of education and experience required

Exceptional communications and human

relations skills; extensive experience working with students; strong managerial

experience necessary. A facility and ac-curacy with numbers and knowledge of basic accounting needed. Experience with

computer systems and personal computers is highly desirable. A85-642

Sponsored Research

Assistant Director of BPEC Consor

Assistant Director of Dr De Consort tium, Biotechnology Process Engineering Center, to provide services to the 25-member companies of the Consortium.

Will plan and implement activities; act as liaison between representatives of

member companies, faculty participants (17 professors), and research staff (80 peo-ple); oversee the writing and production of

a quarterly technical newsletter, organize

research briefings, workshops, and sym posium programs for the industrial Con

sortium members; identify and coordinate specific technical needs and involvement between the Center's faculty members

with the industrial sector, assist in the preparation of budgets, proposals and an-nual reports of the Center and Consor-

tium; oversee and design laboratory

renovations; provide the interface for technology exchange and transfer in

patents and licensing from the Center's

research and development programs; coor-dinate short- and long-term visits by in-

dustrial scientists and engineers: and

solicit research proposals from industry. Will also serve as liaison with the MIT

community; respond to inquiries about the Center and Consortium; and solicit new Consortium members. B.S. in biology

or chemical engineering and either a master's degree in a relevant field or two

plus years experience in a chemical, phar

maceutical or biotechnological company required. Must be well-spoken and willing

to travel. Skills in technical writing and

Research Scientist, Research

Laboratory of Electronics, to conduct both experimental and theoretical research on

the mechanical properties of the receptor cells in the ear. Will perform experiments

involving optical measurements of the motion of the receptor organ and the hair cell stereocilia, and theoretical studies in-

volving both analytical and computer

simulational investigations of the mechanics of motion of these structures.

A doctoral degree in Physics or Electrical

or Mechanical Engineering and three to five years of experience are required as is

demonstrated knowledge of Auditory

Physiology. Familiarity with the numerical solution of partial differential

Research Specialist, Chemistry, to per-

form basic immunological and biochemical procedures in a large research group. Will prepare antigens, produce antibodies in rabbits and mice, perform radio immunoassays and further

perform radio immunoassays and further

equations is desirable. R86-947

inication are essential. R86-948

Staff

x3-0034: Analogic signal proces

MT400 Torch.

x3-8983: NEC computer, plus software

Sponsored Research Staff, Laboratory for Nuclear Science (temporary, one-year appointment). The Center for Theoretical Physics is seeking highly qualified applicants in the areas of nuclear or particl theory. Ph.D. in nuclear or particle theoretical physics, superior graduate record, and demonstrated ability to do effective research in areas of interest to members of the Center are required Selection is based on letters of recommen-dation, published research, and perhaps a visit or seminar. There is a possibility of renewal for a second year. R86-942, R86-943

Research Associate, Center Technology, Policy, and Industrial Development, to act as Environmental Health Risk/Policy Analyst. Will lead and participate in science-based policy analy is projects related to biotechnology and occupational and environmental health. Requirements include a Ph.D. in chemistry, biology, biochemistry, molecular biology, bacteriology, genetics, biostatistics, or another allied discipline at least two years of relevant experience beyond the Ph.D. using scientific information to illuminate public policy questions; excellent writing skills; and good quantitative modeling ability and capability to analyze environmental health problems and data in terms of different technical

and policy perspectives. Position available as of July 1, 1986. R86-941

Technical Assistant, Center for Cancer Research, to perform laboratory research on molecular and cellular analysis of tissue culture of adhesive as well as suspended cells, such as lymphocytes; work on various types of biochemical preparation and analysis of nucleic acids and proteins, including cloning of mammalian genes by recombinant DNA techniques; and handle mice for injection of actlsera. B.S. and minimum of 2-3 years experience with at least some of the above techniques required. Experience in tissue culture essential. R86-940

Research Specialist, Cell Culture Center, to perform a variety of cell culture related duties including the preparation and quality control of cell culture media, mass production of animal cells as well as large-scale concentration and purification of virus. The cell culture work involves growth of cells from primary culture as well as production of cell lines in suspension and monolayers. B.S. or B.A. degree required. Some experience in animal cell culture desired. R86-939

Technical Assistant, Psychology, to administer neuropsychological tests. Will score tests and enter scores into computer database, perform descriptive analyses, sometimes by hand and other times by computer, schedule patients for testing at MIT and schedule the appropriate testers to see each patient; inform other areas of patients' special needs and accompany patients to outside appointments; and give updates on individual patients and families, including evaluating test procedures, relating new problems and interesting issues that arise, and remaining alert to new variables that may be important to study. B.A. or B.S. in psychology, biology, or psychobiology, and experience in devising and running experiments and working with computers required. Experience with testing patients and some knowledge of neuropsychology and psychobiology preferred. NON-SMOKING OFFICE. R86-932

Administrative Officer, Center for Space Research, to be responsible for all operational functions of the Center for Space Research including administrative, financial, contractual and personnel Special emphasis on monitoring federally sponsored space research projects, which are sensitive to cost and schedule fluctuations. Will supervise the Center's Pur-chasing and Financial Officers; participate in the development and im plementation of the Center's policies and plans; and interface with other Institute offices and departments, as well as with sponsors and other outside agencies in the conduct of the Center's business. Will also manage administrative aspects of the space research activities of some twenty faculty members (involving approximate ly 100 accounts). Requires a minimum of 5 years administrative experience (in-cluding some experience with government contracts). A BS/BA degree, or an equivalent combination of experience and education required. Direct supervisory experience, experience in a research en vironment, and experience in personnel administration are preferred. Familiarity with MIT's administrative structure and with spreadsheet and/or computerized financial accounting techniques highly desirable. R86-933

Postdoctoral Associate, Division of Comparative Medicine. Postdoctoral training program for veterinarians seeking careers in comparative pathology and laboratory animal medicine. Program emphasizes research training and in-depth clinical investigations. Additional training will include clinical rotations in research institutions affiliated with the Division. Previous experience in the field is desirable, but not mandatory. Eligibility credit earned toward board certification by ACLAM and/or ACVP. D.V.M. required. R86-931

Postdoctoral Research Staff, Francis Bitter National Magnet Laboratory (2 yr. position). Physiologist to participate in biomagnetism research in the Low-Field Group, particularly in the use of the magnetoencephalogram. Studies will be made of the normal brain, and of epileptic patients. PhD in physics or bioengineering required. Must have experience in electrophysiology and/or electromagnetism, with a good physics or bioengineering background. R86-930

Research Associate, Center for Technology, Policy and Industrial Devel-opment, to be the central source of infor-mation and analysis in the Program on the organization and performance of the world motor industry. Duties of the In-dustry Analyst will include: (1) maintaining a comprehensive, computerized data base on the international motor industry to be maintained on an IBM PCAT, to include data from governments, companies unions and other sources and be available to researchers associated with the Program, and (2) providing analyses of co petitive trends and emerging organize tional patterns and production strategies within the world motor industry. These analyses will be written in a manner ac cessible to a wide industry audience and will be suitable for presentation at the Program's annual Policy Forums for senior industry executives, government officials, and labor leaders. Broad-based knowledge of the motor industry, par ticularly with regard to manufactu procedures and producer competitive strategy necessary. Must have experience in developing and maintaining a data base using personal computers and generating reports from that data base. Minimum of three years work experience, preferably involving the motor industry, required. Must have ability to travel domestically and internationally; to negotiate diplomatically with governments, motor vehicle producers, and other sources of data around the world; and to make sophisticated presentations to groups of senior industry, government, and union officials. R86-885

tion of microforms and receive instruction in additional technical disciplines. Will be responsible for meeting production goals, while observing quality standards and helping to maintain equipment; operate a planetary microfilm camera in the production of roll film or microfiche, a rotary camera, a microfilm step and repeat camera, and a microfiche printer/processor; perform darkroom work; and operate binding equipment. High school graduate or equivalent preferred. Mechanical ability desirable. L86-315

Library Assistant IV, MIT Libraries – Catalogue Department, to catalogue MIT publications. Will catalogue theses directly online according to AACR2 catalogue code, OCLC bibliographic input standards, and MIT cataloguing policies; assign OCLC field and subfield codes and indicators; barcode publications; verify personal names and series in MIT and online authority files and create new authority records for personal names; resolve personal name heading conflicts and initiate correction to bibliographic records and authority files to reflect AACR2 rules of entry; direct student assistant; maintain statistics of number of items catalogued; and perform auxiliary assignments as required. Minimum 2.5 years direct/related experience and high school degree or equivalent required. Some college study preferred. Working knowledge of the MARC format, preferably in the OCLC Catalogue ode, and experience with CRT operations desirable. Accurate typing (40 wpm) and attention to detail exestial. L66-314

Library Assistant III, MIT Libraries, Catalogue Department (part-time mornings, 17.5 hours/week), to work under the direction of the Head, Database Maintenance Section. Will input catalogue records on the OCLC terminal from work forms prepared by cataloguers; edit online contributed and Library of Congress catalogue records based on cataloguers' written instructions; participate in maintenance of the Libraries' database; type charge cards and book pockets; perform auxiliary aspects of cataloguing based on cataloguers' written instructions; remove and correct cards in the Institute Libraries Catalogue; and perform other assignments as required. Accurate typing (40 wpm) and attention to detail essential. High school graduate or equivalent with minimum of one year direct/related experience required. Experience using CRT terminal desirable. Will work Monday through Friday from 9:00 am -12:30 pm, negotiable. L26-298

Library Assistant III - Circulation Assistant, Hayden Library (part-time evenings, 17.5 hours), to have responsibil-ity for Hayden Circulation on Thursday and Friday evenings to perform all cir culation desk functions. Will register and issue Consortium cards, and take applica-tions for "S" cards. Will also provide directional and information assistance to li rary users. Will be trained to do desk functions online and perform other duties as assigned by Circulation Librarian. Will perform general stacking routines on all levels of the Hayden Library; shelfread in Science Library; participate in shifts of material; search for missing materials; and participate in closing routines. May be required to train and monitor evening students. 40 wpm typing skills required. Attention to detail and ability to work without supervision necessary. Tact dealing with users and ability to functi Tact in efficiently under pressure essential. Physical stamina for stacking important. Minimum one year direct/related experience required; post-high school education may count toward experience. Previous li-brary experience desirable. Will work Wednesday, 6:30 pm to midnight; Thurs day, 6:00 pm to midnight; and Friday, 1:00 pm to 7:00 pm. Flexibility of schedul-ing possible. NON-SMOKING OFFICE. L86-292

Secretary/Staff Assistant

Administrative Secretary, Center for Transportation Studies, to provide ad-ministrative and secretarial assistance to the Director and be generally responsible for overseeing headquarters operations. Will coordinate activities, meetings, and travel itineraries; answer telephones; type correspondence; maintain files; provide reception to visitors; work closely with Administrative Officer with respect to certain financial information, correspon dence and Center's activities; and provid occasional typing services to transporta tion faculty. Minimum 4.5 years direct/related experience or equivalent combination of education and experience required. Excellent typing, organization al skills, command of English, and abili ty to use DECmate word processor essen-tial, as is a facility for working with various groups of people both at MIT and outside. Ability to work well in a busy environment with significant interaction and interruption necessary. Familiarity with MIT desirable. B86-323 Administrative Secretary, Architecture to provide secretarial support to the Head of the Department. Will answer phones and screen calls and visitors, maintain Head's schedule, make travel ar-rangements, and schedule meetings of department committees; open and route mail and reply to routine letters independently; type reports and correspondence for Head and Assistant to Head; assist in compiling tenure, promotion and reap-pointment cases; maintain complete filing system; and order lunch and dinner fo meetings when necessary. Minimum 4.5 years direct/related experience required. Excellent typing skills, good educational background, ability to recognize priorities of requests, and good organizational skills are essential. Requires ability to work in dependently with interruptions. In telligence, maturity, patience, flexibility, good judgment are essential. vledge of word processing highly and desirable. B86-321

ment forms; allocate payroll to accounts and keep records of funds expended for personnel; assist in the preparation of manuscripts, reports, correspondence, course materials and new research proposals; and answer phones, make appointments, and keep calendars for both faculty members. Minimum 4.5 years direct/related experience required. Prior experience with or willingness to learn word processing, spreadsheet, and computer skills and ability to work independently and function smoothly in the face of frequent interruptions important. Knowledge of the MIT accounting system desirable. B86-320

Administrative Secretary, Laboratory for Electromagnetic and Electronic Systems, to provide sole support to one faculty member and two research staff members and assist and interact with amerous other laboratory members. Will type research proposals, reports, scripts, corre ondence, etc. on both word processor and typewriter; answer telephones; monitor monthly statements word proc of research accounts, handling discrepan cies, petty cash, salary distribution be-tween accounts, etc.; requisition lab equipment and supplies, monitor purchase orders, and process invoices for pay ment; file; make travel arrangements; or ganize meetings and seminars; scan and distribute mail: admit and direct visitors distribute mail; admit and direct visitors to the laboratory; make appointments; re-quest building repairs and improvements; assist foreign visiting scientists with housing arrangements; process payroll for visiting scientists and some other laboratory personnel; assist students in use of word processor; maintain undergraduate student advisees' files and process rele vant paperwork; oversee office equipment operation; interact with laboratory head quarters, Electrical Engineering Depart-ment, Office of Sponsored Research, and other administrative offices; and assist in other administrative duties as required. Minimum 4.5 years direct/related experi-ence required. Ability to organize work, set priorities and work independently toward various deadlines essential. Knowledge of MIT's administrative proce-dures for Accounting Office and Office of red Programs highly desirable B86-316

Administrative Secretary, Industrial Liaison Program, to handle various secre-tarial duties for an Assistant Director and Industrial Liaison Officer in the Industrial Liaison Program. Will have considerable contact with corporate member of the ILP and Institute faculty and staff; compose and type correspondence, reports such as summaries on member company activities, and visit and travel agendas; activities, and visit and travel agendas; assist in scheduling appointments; ar-range for company research briefings, in-cluding room scheduling, catering and audiovisual equipment; make travel ar-rangements, obtain travel advances and prepare travel expense vouchers; maintain files; assist with telephone coverage working group suite and answer in quiries related to servicing member companies of the Program; independently rep-ly to correspondence when appropriate; perform computer input and retrieval on various member company statistics and requested publication information; and prepare Institute forms, such as requisi s. Will handle administrative and cor fidential matters for the Assistant Direc tor regarding the Liaison Program and working group and participate in training for support staff personnel within working group; may oversee workload priorities within group. Excellent secre-tarial and organizational skills and experience with and/or willingness to learn word processing essential. Flexibility, strong interpersonal skills and initiative, ability to work both independently and as part of a team, and ability to prioritize work load important. Minimum 4.5 years direct/related experience required B86-310

Administrative Secretary, Laboratory for Information and Decision Systems, to perform complex and diverse secretarial duties for the Laboratory Director and Administrative Officer in a busy Headquarters Office. Will arrange meetings and seminars, schedule appointments, handle busy telephone contact and referral, set priorities, arrange and document travel, type, word process, proofread, organize and maintain administrative files, perform special projects and tasks as needed, and act as liaison between department headquarters, the Dean's Office and the Laboratory. Minimum 4.5 years direct/related experience required. Good interpersonal and typing skills and knowledge of and/or willingness to learn word processing essential. Efficiency, good organizational skills, and the ability to work with minimal supervision necessary. B86-308

Administrative Secretary, Earth, Atmospheric, and Planetary Sciences, to perSr. Secretary, Systems Dynamics Group, to provide overall support for one faculty and two research staff members. Will type manuscripts, reports, correspondence and class materials; photocopy; coordinate schedules and travel arrangements; assist in summer session project administration which includes planning, logistics and expense management. Additional duties include maintaining reprint inventory, receiving and directing visitors, answering telephones, and assisting other support staff as needed. Minimum 2.5 years direct/related experience required. Strong typing skills (55 wpm), good editing skills, word processing experience and willingness to learn list processing essential. Good attention to detail and ability to organize and set priorities with minimal supervision necessary. NON-SMOKING OFFICE. B86-327

Sr. Staff Assistant, Laboratory of Ar and Planning (temporary chitecture through March, 1987; part-time, 17.5 hours/week), to assist in the Governor's Design Awards Program Project, a statewide program for recognizing design excellence. This position is located off campus. Will coordinate schedules of project staff and subcommittee heads for ses of organizing meetings; handle curity for office; take notes at meetings; assist in preparation of large public meetings and materials; make travel ar-rangements for guests and be responsible for all office functions including typing filing and reception work for project staff Minimum 2.5 years direct/related experience required. Excellent organizational skills, ability to assume responsibility and work independently and excellent in sibility and terpersonal skills essential. Accurate and fast typing necessary. B86-326

Sr. Staff Assistant, Career Services and Preprofessional Advising, to provide com-plex secretarial and administrative duties for Associate Director. Will draft corre dence; anticipate and initiate actions regarding office operations; compile an nual data; maintain Associate Director's calendar; manage files and records of premedical and prelaw students, including typing, filing, copying and mail-ing; and assist in the functions of general office operations. 2.5 years direct/related experience required. Excellent interper-sonal skills and a friendly, caring and perceptive manner essential. Ability to exercise discretion regarding confiden tiality of material and in obtaining sen sitive information, and pleasant office manner and ability to work well with students and alumni as well as Institute faculty and staff essential. Typing neces word processing skills helpful. B86-325

Sr. Secretary, Office of the President, to perform wide variety of secretarial duties in very busy office. Minimum 2.5 years direct/related experience required, as are excellent typing, shorthand, organizational skills, and command of the language. DECmate and IBM word processing skills or willingness to learn, ability to assume responsibility and to work under pressure, and ability to work us a team member essential. Resourcefulness in handling complex situations, discretion, tact, good judgment, and sense of humor important. Overtime sometimes necessary. NON-SMOKING OFFICE. B86-319

Sr. Secretary, Environmental Medical Service (temporary, four month position), to provide general secretarial support. Will type, file, keep records, and deliver materials within the Institute. Minimum 2.5 years direct/related experience required. Good communication skills and poise in dealing with people necessary. Knowledge of DECmate II word processor preferred. B86-317

Sr. Secretary, Sloan School of Manage-ment, to provide secretarial support to three professors in the Econ omics. Finar ce and Accounting Group. Will type, proofread and reproduce manuscripts. reports, exams, and correspondence, often of a technical nature and sometimes re quiring transcription from dictaphone; assist with preparation of course materials and notes, as well as for meetings and seminars; answer telephones and student inquiries, schedule appointments; arrange travel; photocopy; maintain files; and respond to routine inquiries. Minimum 2.5 years direct/related experience or a com-bination of education and experience required. Excellent typing, proofreading and general office skills, as well as good organizational skills and the ability to work under minimal supervision es tial. Technical typing skills, dictapho experience, attention to detail, and the willingness and ability to learn word p cessing highly desirable. B86-313

Sr. Secretary, Harvard-MIT Division of Health Sciences and Technology, to perform a variety of secretarial duties for Director of Hyperthermia Center. Will answer and place phone calls; receive patients; take messages from doctors and patients; respond to routine phone incharts and assure the accuracy of their material, format, punctuation, paragraphing, etc.; make appointments and travel arrangements; distribute office mail, independently reply to routine inquiries; and compose letters from oral instructions to respond to nonroutine inquiries. Minimum 2.5 years direct/related experience required. Excellent typing skills and knowledge of some method for taking dictation essential. B86-302

Sr. Staff Assistant, Research Laboratory of Electronics, to perform secretarial and clerical duties for a large and active staff. Will assume responsibility for running the office; type correspondence, technical manuscripts, statistical tables and drafts; be responsible for accuracy of typed material, setting up manuscripts from rough data and for the routine verification of footnotes and references; make appointments and travel arrangements, distribute office mail; independently reply to routine inquires; compose letters from oral instructions for nonroutine inquiries; and deal with a number of foreign visitors. High school training and minimum 2.5 years direct/related experience or equivalent combination of education and experience required. Excellent typing skills, willingness to learn technical typing and excellent command of English language and grammar essential. Dictaphone experience desirable. Non-smoker preferred. B86-301

Sr. Secretary, Lowell Institute School, to provide data processing and secretarial support for the Director and the Adminis-trative Assistant at the Lowell Institute School. Will maintain student records on IBM PC, including preparation of tuition statements, ID cards, class roll sheets, grade reports, certificates and various mailing lists. Will also reserve class-rooms, order textbooks, and handle distribution of this information to students. Ad ditional duties include typing correspon dence; making travel arrangements; pre paring travel vouchers; maintaining files; scheduling appointments; answering telephone; processing mail; and performing general office record-keeping. Will have considerable interaction with students both in person and on the telephone which requires good judgment, patience tact and understanding. Minimum of 5 years experience preferred, including personal computing or word processing w excellent keyboard skills. Shorthand h with but not necessary. Familiarity with IBM PC and willingness to learn element-ary programming necessary. Must have an excellent command of the English language, including spelling, grammatical, and verbal skills. Must be able to work with frequent interruptions in a busy atmosphere under high pressure. Accuracy and attention to detail important. Ability to organize work, set priorities and work towards deadlines with minimal sur ential. NON-SMOKING OFFICE.

Sr. Secretary, Aeronautics and Astronautics, to support three faculty members in the Fluid Dynamics Lab. Will type correspondence, reports, and class notes; answer telephones and take messages; and arrange meetings and travel. Will prepare travel vouchers and copy billing vouchers. Good typing and interpersonal skills required. Ability to work independently and familiarity with or willingness to learn word processing desirable. Minimum 2.5 years direct/related experience required. B86-291

B86-293

Sr. Secretary, Treasurer's Office, to cover the full range of secretarial duties and general support of a two-person office. Will transcribe, type, file, screen telephone calls, and perform task projects including secretarial administration of the faculty second mortgage program. A demonstrated capability to interact comfortably within and outside MIT, to work independently, to organize office activities and to establish priorities of work flow is necessary. Facility with legal, financial, and investment terminology; excellent secretarial skills, including machine transcription; the demonstrated ability to work well under pressure; maturity to make decisions; and poise to effectively and diplomatically represent the office with senior staff offices and external legal and business offices essential. Familiarity with modern office equipment preferred. College education preferred. Minimum 2.5 years direct/related experience required. B86-290

Sr. Secretary, Civil Engineering (part time, 20 hours/week), to provide part-time secretarial support of Division Administrative Assistant and various faculty members. Duties will include typing of class notes, exams, technical reports (which involve typing of mathematical equations) on A.B. Dick Magna SL Word Processing System; answering phones; and photocopying. Duties also include responsibility for Division's Research Library: assigning order number; updating report listings; keeping library up to date and in order; processing interdepartmental and outside requests for publications (which involves maintaining ac unts payable and receivable records). Efficient and accurate technical typing skills as well as organizational skills and the ability to work well with minimum supervision are essential. Knowledge of MIT and word processing skills preferred. Minimum 2.5 years direct/related experience required. B86-289 Sr. Secretary, Sloan School of Manage ment, to work for three faculty members in the Operations Management subgroup of the Management Science Area. Will type and proofread correspondence, co materials, manuscripts, etc.; maintain complex calendar; schedule appointments make travel arrangements; answer tele phones; interact with students and out side visitors; process mail; monitor accounts; order supplies; and perform other general office functions. Willingness to handle confidential material and assum responsibility for accuracy of materials, and ability to work well under minimal supervision and under pressure essential. Knowledge of or willingness to learn technical typing, word processor, and IBM PC desirable. Minimum 2.5 years direct/ related experience and excellent typing and organizational skills required Knowledge of MIT preferred. NON-SMOKING OFFICE. B86-239

tions and give directions to students; maintain calendars for the counseling deans and International Student Advisor; screen potential appointments; sort office mail and student mail; and type basic visa documents for students, such as certificates and letters for scholarship agencies. Will also assist in correspondence for Deans; file, pull files, and update student records. Will assist students in preparing forms for Immigration Service at MIT; assign lockers in the Cheney Room; and perform special projects as required, such as participation in the orientation of new students to MIT. Good typing and clerical skills necessary. Must be flexible, adaptable, and enjoy working with people, especially students, in a very busy office. B86-268

Office Assistant

Administrative Assistant, Resource Development, to provide general administrative assistance to the Director. Will process incoming and outgoing mail, including gathering data and drafting memos and letters; work with group heads in office to maintain schedule of assignments; proofread documents generated by staff members; oversee the maintenance of files and supervise office assistant in file maintenance; and contact staff members both within and outside Resource Development on behalf of the Director. High school graduate or equivalent and 4.5 years direct/related experience are required. Good writing, research and proofreading skills, and ability to organize and plan projects to meet deadlines, ability to handle details in written work, good interpersonal skills with all staff, and discretion and tact in obtaining and providing information are necessary. S86-324

Administrative Assistant, Center for International Studies, to provide general secretarial support to the Director of the Center. Will type, maintain files, arrange meetings, and handle extensive telephone volume; manage seminar program for the Center, including space management and seminar publicity; and lend assistance as need arises in small, busy office. Minimum 4.5 years direct/related experience required. Excellent typing skills, communications and telephone ability, flexibility, and ability to work with people essential. Knowledge of or willingness to learn Wang word processing system necessary. S86-312

Accounting Assistant, Comptroller's Accounting Office, to perform internal cost audits of research contracts and grants. Will coordinate accounting, audit and cash flow functions with Office of Sponsored Programs, MIT departments and schools. General business education with 3-5 years of accounting experience or B.A. in Accounting or equivalent combination of formal education and experience required. Ability to communicate well with MIT department personnel and representatives of outside sponsors essential. S86-307

Administrative Assistant Earth At mospheric, and Planetary Sciences, to manage office and perform administrative and secretarial tasks for a group of pro-fessors of marine geophysics and geology and their research staff and students Will prepare and submit research pro-posals with good knowledge of agency regulations; manage research contracts, which will entail administrative liaison with OSP, budget forecasting, salary allocations, monitoring of monthly statements, and arranging travel; handle all bureaucratic matters for graduate students and staff; coordinate typing of all manuscripts with department word pro-cessor operator; type correspondence, proposal budgets, class material, etc.; answer phones, sort mail, and maintain files; and edit, proofread and assist in writing technical reports. Minimum 4.5 years direct/related experience required. Ex cellent typing, organizational, and com munication skills as well as the ability to anticipate problems essential. Experience with handling administrative problems at MIT preferred. NON-SMOKING OFFICE

Administrative Assistant, Resource Development, to compile and summarize background information on foundations corporations and individuals for faculty deans and Resource Development staff Will maintain, in conjunction with senior research assistant, a donor relations tickle system for notifying faculty, staff, and others when reports are due to donors. Duties will include a close review of files and references, including electronic databases, of foundations, corporations and individuals for faculty and staff; sum marizing and interpreting information prepared by senior research assistant; and computation of individuals' known wealth. Will research MIT's interaction with foundations, corporations, and in ividuals as background for clearance decisions concerning appropriateness of fundraising approaches. Will respond to requests for information from faculty and staff about foundations, corporations and individuals by consulting files, reference books, electronic databases and alumni database. Will oversee, with staff, the maintenance of files in all areas; and v supervise senior research assistants in file maintenance. High school graduate with a minimum of 4.5 years direct/related ex-perience required. Post-high school education will count toward experience. Strong writing skills, organizational skills, and interpersonal skills necessary. Should have a thorough understanding of gram-mar and punctuation. Ability to analyze and correctly interpret information from files and reference books necessary Should also have ability to meet dead lines, work with a group, get along well with others, and be able to supervise. Familiarity with computers and data bases, or an interest in learning, helpful. NON-SMOKING OFFICE. S86-269

Library Support Staff

Junior Microfilmer, MIT Libraries – Microreproduction Laboratory, to perform elementary technical tasks in the producAdministrative Secretary, Biology, to provide, with Senior Secretary, administrative support for two biology professors and their laboratories. Will monitor spending of research grants and other accounts; prepare financial projections and proposal budgets for sponsored programs; order supplies and keep disbursement records for regular assessment of laboratory spending patterns; prepare time cards and personnel appoint

form diverse secretarial duties for the Director of the Earth Resources Laboratory, Principal Research Scientist, and Industry Consortium Project. Will schedule complex travel, meetings, ap-pointments, and special events; maintain Director's calendar; review and distribute Director's calendar, review and distribute large volume of mail; independently in-itiate and compose replies and correspon-dence, type manuscripts, proposals, class material and correspondence; answer and screen phone calls; establish and maintain extensive publication and other files for director; serve as information source for internal and external Lab inquiries. Will also take initiative in generating cor-respondence and mailings, fielding requests and making arrangements for twenty member companies of industry research consortium. In collaboration with Lab Administrator, will maintain ERL publication files and other Lab data bases, prepare and submit sponsored research proposals, and undertake various Lab projects as they arise. Minimum 4.5 years direct/related experience required. Excellent typing (including technical) superior editing and proofreading, and strong interpersonal skills as well as facility with both written and oral comation and the ability to work inde pendently, stay highly organized, set priorities, and meet deadlines in a hetic office environment essential. Willingness to learn VAX UNIX text formatting necessary. Initiative, attention to detail, ac-curacy, flexibility, and willingness to work as part of a team important. Occa-sional weekend work. NON-SMOKING OFFICE. B86-305 patients; respond to routine phone inquiries, receive other visitors and schedule appointments; compose letters; type correspondence, manuscripts, grant proposals, etc.; and perform other duties as necessary. Position involves considerable interaction with students and staff, patients and doctors, and other visitors to the Center. Minimum 2.5 years direct/ related experience required. Excellent typing, proofreading, and general office skills as well as the ability to organize and set priorities necessary. Discretion, tact, and good interpersonal skills essential. Knowledge of word processing and familiarity with medical terminology preferred. B86-311

Sr. Secretary-Technical, Chemistry, to support one chemistry professor. Will type correspondence, technical manuscripts and grant proposals; answer telephones; arrange appointments and travel; file; and monitor research accounts. Minimum 2.5 years direct/related experience required. Excellent typing skills, word processing experience or willingness to learn, strong interpersonal skills, and ability to set priorities and organize work without detailed supervision essential. Familiarity with M.I.T. desirable. B86-309

Sr. Staff Assistant, Research Laboratory of Electronics (part-time, 30 hours/week), to perform secretarial and clerical duties for one or more professors and be responsible for office. Will take and transcribe difficult dictation including that involving specialized terminology; type technical manuscripts and statistical tables and

Secretary/Receptionist, Office of the Dean for Student Affairs, in the Student Assistance Services Section of the Office of the Dean for Student Affairs, to assist walk-in visitors to office; answer quee Sr. Office Assistant, Project Athena, to perform accounting and financial duties. Will check and process monthly accounting statements; process the weekly student payroll; prepare cash, transfer, and travel vouchers; handle petty cash, issue keys; order equipment and supplies; set up and maintain files and records; operate office machines and equipment; process

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CSF Road Race scheduled

The Sixth Annual MIT Community Service Fund Road Race will take place at 9:30am, Saturday, May 3. This year's race will be part of the festivities celebrating MIT's Quasquicentennial Anniversary. The four-mile race will follow the traditional course beginning at the Walter C. Wood Sailing Pavilion on Memorial Drive, proceeding along the river to the Museum of Science, returning along Storrow Drive and over the Harvard Bridge and ending at McDermott Court.

The entry fee is \$5 (post entry is \$6) and all members of the MIT and Wellesley communities, Draper and Lincoln Labs, and alumni in the Greater Boston area are eligible to participate in the race. Prizes will be awarded to the overall male and female winners, and Masters champions (male and female over 40).

"We expect the Quasquicentennial events surrounding the race to add a special flavor of excitement this year," said Ron Suduiko, special assistant in the Office of the Chairman of the MIT Corporation and secretary of the CSF. "We've had an excellent turnout for past races. Both the runners and the race organizers seem to agree the race is a great way to help the Community Service Fund."

Registration forms, along with the release forms to be signed are available in Rm 5-208, the Athletic Department Equipment Desk, and the Sports Publicity Office, Rm W32-129. Pre-entry closes Thursday, May 1. Charlene

Moebus is named ILP associate director

Thomas R. Moebus, former assistant director of the chemicals, materials and biological sciences division of the



director. The appointment was announced by Dr. James M. Utterback, director of the Industrial Liaison Program. Mr. Moebus has taken the place of Dr. Kay Tamaribuchi, who has been named special assistant

for resource develop-

Industrial Liaison Pro-

gram (ILP), has been

promoted to associate

ment in the office of Dr. David S. Saxon, chairman of the Corporation. Mr. Moebus joined the MIT Associates Program as assistant director in May 1981. When it merged with ILP in 1982, he became an Industrial Liaison officer. In 1984, he was promoted to coordinator of European affairs, and in January 1985 became assistant director.

Before his employment with MIT, he was a metallurgical engineer for the Wyman-Gordan Company, and was a manager and consultant for private Massachusetts agencies in the health and human services sector.

Mr. Moebus received the SB degree in metallurgy and materials science and industrial management from MIT in 1970, and an MA degree in education from Clark University in 1975.

Dr. Menand to speak

Dr. Louis Menand III, senior lecturer of political science, will be one of three speakers who will address "Government Gridlock: Is Government Responsive Enough for the 21st Century?" Thursday, April 10, at 7:30pm in Faneuil Hall, Boston.

Other speakers will be Lloyd Cutler, lawyer and presidential advisor, and Elliot Richardson, former US Attorney General.

forms and correspondence; and perform other clerical, financial, and secretarial duties as an ecessary, including phone coverage for receptionist. Minimum 2.5 years direct/related experience required. Willingness to work with computers and learn electronic mail, a text editor and formatter, and MIT's computerized ex-mense accounting system pacesary. Abili pense accounting system necessary. Abili-ty to work independently and organize tasks in a busy environment, effectiveness in dealing with a variety of peo-ple, and attention to detail are essential. Familiarity with MIT's accounting system desirable. NON-SMOKING OFFICE. S86-303

senior officers about corporations, founda tions and individuals through various means. Will also organize and maintain reference materials used by the Development Office staff including proxy state-ments, annual reports, and standard reference sources. In addition, will implement mailings for reorder of reference materials and file new materials as received. High school graduate with a minimum of 2.5 years direct/related expe-rience required. Post-high school education will count toward experience. Strong organizational and analytical skills, good typing skills (40 wpm), and an interest in word processing and other computer skills necessary. Knowledge of grammar and spelling also important. Requires re-sourcefulness and an ability to manage time in order to meet deadlines as well as a pleasant telephone manner and an ability to get along well with others. NON-SMOKING OFFICE. S86-270

Placido in the Office of the Dean of Science and Cathy Larson of Mechanical Engineering headquarters will serve as race directors.

Among the race sponsors are Bay Bank Harvard Trust Co.; The Charles Stark Draper Lab, Inc.; Etonic, Inc.; MIT Graduate Student Council; MIT Graphic Arts; and Seilers.

In addition, drawing prizes have been offered by Marathon Sports, Medford Sports and Toscanini's Ice Cream.

Previous men's winners: Steve Bratt (1981, 1983), Colin Kerwin (1982), Bob Walmsley (1984), and Sumner Brown (1985). Women: Rusty Byrne (1981), Sarah de Leon (1982), Ann Durham (1983), Susan Babcock (1984), and Ruth Heffernan (1985).

Three hundred and one runners finished the race in 1981, 380 in 1982, 269 in 1983, 346 in 1984, and 350 last year.

All proceeds from the race go to the CSF which was formed in 1968 to encourage MIT volunteer involvement in various projects in the Cambridge-Boston area.

Pugwash to sponsor talk by energy expert

Dr. Theodore B. Taylor, an internationally recognized authority on energy technology and a widely known advocate of nuclear arms control, will speak at 7:30pm on Thursday, April 3, in Edgerton Hall (Rm 34-101). His talk has been arranged by the MIT Student Pugwash organization.

Dr. Taylor is president and chairman of NOVA, INC., a renewable energy company in Damascus, Maryland. The company is focusing on research and development of "ice ponds," a concept Dr. Taylor invented for process cooling, air conditioning and water purification.

Dr. Taylor, who holds the BS in physics (1945) from California Institute of Technology and the PhD in theoretical physics (1954) from Cornell University, designed nuclear weapons from 1949 to 1956 at Los Alamos Scientific Laboratory. From 1956-1964 he worked on nuclear space propulsion and nuclear research for General Dynamics and from 1964-66 was deputy director (scientific) of the Defense Atomic Support Agency with primary responsibility for the Defense Department's nuclear weapons effects program. In 1967 he founded International Research and Technology Corp. in Washington, D.C. to access the beneficial and harmful effects of modern technology. He was chairman of the corporation until 1976 when he joined the faculty at Princeton Univerity as visiting lecturer with the rank of full professor. He held that post until 1980 when he founded NOVA,

NAE elects five

(continued from page 1)

Robert P. Clagett (1967), former general manager, R&D, AT&T Technologies, Inc.; John K. Galt (1947), vice president, Sandia National Laboratories; Robert H. Park (1923), presi-dent, Fast Load Control, Inc.; John R. Paulling (1952), professor of naval architecture, University of California, Berkeley; John W. Poduska Sr. (1959), board chairman, Apollo Computer, Inc.; Ephraim M. Sparrow (1948), professor of mechnical engineering, University of Minnesota; Max T. Weiss (1947), vice president, Aerospace Corp., and John J. Wise (1966), manager, Paulsboro Research Laboratory, Mobil Research and Development Corp.

> general clerical tasks, and provide relief assistance with telephones, including phone and direct patient contact. Mini-mum 1 year direct/related experience required. Good typing skills, aptitude for detail work and routine clerical tasks as well as ability to work as part of a team, share information and take direction from support and medical staff essential. Flexibility and ability to deal with frequent interruptions in busy office also neces-sary. Work schedule is 9:00 - 2:00, Mon-

Professor D.V. Brown dies at 82

A memorial service will be held later this spring at the MIT Chapel for Dr. Douglass V

Brown, Jr., a renowned arbitrator and an MIT professor emeritus whose service to the Sloan School of Management and the Institutespanned 36 years. Professor Brown, a Brookline resident for 47 years, died March 21 in New **England Rehabilitation** Hospital. He was 82.

Professor Brown's expertise in the field of industrial relations and arbitration influenced

generations of students, but also had farreaching effects beyond the campus.

A charter member of the National Academy o. Arbitrators, "he played an important role not only in shaping a variety of unionmanagement relationships but in shaping labor law and public policy dealing with the resolution of industrial conflict," said Sloan School Dean Abraham J. Siegel.

During World War II, Professor Brown served as a consultant to the US Departments of Labor and War and held various positions with the Advisory Commission to the Council on National Defense and Office of Production Management.

He also was a staff member of the Harriman-Beaverbrook Board, which went to the Soviet Union to arrange for sending Lend Lease war materiel to Russia for use against the attacking German army.

From 1944 to 1952 and again from 1955 to 1958 he served as a member of the Research Advisory Board of the Committee for Economic Development. It was as a Massachusetts labor arbitrator

in the postwar years that Professor Brown came to public attention through widely publicized rulings in trucking and textile dis-putes. Later, as one of MIT's first Urban Fellows, he headed a study of labor relations and personnel administration in Boston's municipal government.

Professor Brown graduated from Harvard University in 1925, received his master's

degree the next year and the PhD in 1932. He was an economics instructor at Harvard from 1927 to 1933 and assistant professor of medical economics at Harvard Medical School from 1933 to 1938.

He came to MIT as an assistant professor of industrial relations in 1938, and was subsequently promoted to associate professor and professor. In 1946 he was named Alfred P. Sloan Professor of Industrial Management filling a new chair endowed by Alfred P. Sloan Jr. In 1959-60, he was Ford Foundation Visiting Professor of Industrial Relations at the University of Chicago's Graduate School of Business. In 1969 he became professor emeritus, but continued to serve Sloan School as senior lecturer through 1974.

Professor Brown directed a research program in the Sloan School's Industrial Relations Section on the implications of technological change and automation. He was chairman of the MIT faculty in 1949-50.

At his retirement, colleagues and former students contributed to a festschrift that praised his influence and abilities as a teacher. Howard W. Johnson, then MIT president and a former Sloan School dean, wrote:

"Generations of MIT students, undergraduate, graduate and postgraduate, will remember many personal instances in which he counseled, prodded, pressed or queried—all in the interest of the educational process of making it possible for his students to become what they truly were. Neither his time nor his patience had limits when it came to helping his students and his colleagues."

Another contributor was George P. Shultz, now Secretary of State and a former student and faculty member at MIT, as well as a former Secretary of Labor, director of the Office of Management and Budget and Secretary of the Treasury. "He has great respect for the individual person," he wrote of Professor Brown. "This begins with self-respect and continues to an acceptance of honestly held differences in views. He will argue but never try to force his views on anyone else.

Professor Brown's wife of 51 years, Mary, died in 1984. He leaves two daughters, Deborah Green of Lexington and Constance Brown of New York City, and two granddaughters.

Memorial held for Secor Browne

A memorial service was held Tuesday, April 1, at Memorial Church, Harvard University,

for Secor D. Browne, a former MIT faculty member who was chairman of the former Civil Aeronautics Board from 1969 to 1973. Mr. Browne died March 23 in Boston after a long illness. He was 69

Mr. Browne, whose varied interests enabled him to hold joint appointments at MIT in the Department of Aeronautics and Astronautics and the Department

of Modern Languages, first became associated with MIT in 1957 as an informal advisor to the director of libraries on the purchase of Russian books. Later that year he was appointed special assistant to the director of libraries and then vice director.

In this post he was responsible for negotiating with the Russian Academy of Science for the exchange of scientific literature, resulting in the establishment of a large collection of Russian scientific literature at MIT. He also was instrumental in arranging an exchange of visitors with Russian libraries.

In 1953 Mr. Brown was appointed to the faculty of the Department of Modern Languages, where he taught scientific Russian to doctoral candidates. In 1962 he was given a simultaneous appointment in the Department of Aeronautics and Astronautics, where he taught a graduate seminar in flight transportation. He was promoted to associate professor in both departments in 1966.

available to all travelers, regardless of whether they belonged to an "affinity" group, by saying: "This will bring low-cost air travel to a bigger part of the population who are not necessarily three-legged Armenians or librarians from Ashtabula.

Another time, describing for a reporter the sensation of involuntarily leaving an airplane by parachute, he said: "As you come down you get the feeling that the earth is very hard and very sharp. In fact the world is a great mass of spikes, telephone poles, trees and chimneys. And it's not only being skewered that's a pos sibility, but you also can be dragged, which means you can be fileted, too.

And when the MIT News Office drafted a release saying he was fluent in five languages, he responded, "Fluent ungrammatical might be more accurate, but I don't suppose you can say that."

A former resident of Lincoln, Mass., Mr. Brown leaves his wife, Constance, eight children or stepchildren, six grandchildren, a sister and a brother.

Kathryn Bushnell

Kathryn A. Bushnell, 66, of Lowell, died March 19 after a long illness. Retired in 1982, she was an assistant publications officer at Lincoln Laboratory which she joined 26 years ago as a clerk. She was also a member of the Quarter Century Club.

Mrs. Bushnell leaves her husband, Edward F., a daughter, Kathryn McCarthy of Lowell; a son, Edward Jr. of Chelmsford and four grandchildren.

Mary O. East



Sr. Office Assistant, Foreign Languages and Literatures Section (10-month position), to staff the front office of Section Headquarters and provide office support services to the faculty. Duties will include answering telephones, handling mail, pro-viding xerox services, ordering supplies and maintaining office equipment. Additional responsibility for classroom and event scheduling, processing of book orders maintenance of office records and preparation of specialized mailings. Good typing, excellent organizational skills, flexibility and attention to detail essen tial. Will train on DEC word processing system. Familiarity with another language helpful. Minimum 2.5 years experience in an office setting preferred S86-274

Sr. Office Assistant, Resource Develop ment, to assist in the compilation and maintenance of background information on gift prospects and donors. Also re-quires maintenance of Development Office reference materials. Duties will include composing written reports as needed, compiling information from printouts and data base, and other related duties. Will respond to miscellaneous written and telephone requests from

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Office Assistant, Personnel - Faculty and Staff Information Services, to process and maintain employment information concerning faculty and staff, under supervision of the assistant manager. Will use word processor and/or typewriter to prepare notification letters; update com puter files daily; respond to telephone and written inquiries; assist in salary verification and review processes; and assist, as necessary, in preparation of various reports and special projects. Will also ve contact with other Institute and outde offices and agencies on a daily basis High school degree or equivalent combi-nation of education and minimum one year direct/related experience required. Good basic office skills, close attention to detail, and absolute discretion in handling confidential personal information necessary. Experience with word processing (Digital) and computer terminals highly desirable. S86-319

Office Assistant, Medical Department (part-time, 25 hours/week), to work in Psychiatric Service of the Medical Depart-ment. Will process patient records, file, photocopy, run errands, type, perform

day to Friday. S86-299 Service Staff

Assistant Animal Technician, Division of Comparative Medicine, to perform duties involved in the care of laboratory animals. Will maintain proper levels of food and water for animals in accordance with established procedures; clean animal cages and trays; change bedding materi als and/or litter; wash cages, trays, water bottles, and related items; perform miscellaneous housekeeping functions [such as cleaning laboratory walls, floors, etc.) in animal areas, using cleaning equipment assigned; monitor animals and notify Animal Technologist or supervisor if condition of animals dictates; and per-form other related duties as assigned Graduation from high school and know edge of and ability to work with animals required. Willingness to partake in AALAS seminars and training program and 1 to 2 years animal care experience preferred. H86-360

Bus Person, Faculty Club (part-time, 20 hours/week), will perform such duties as may be necessary to the effective opera-tion of the dining facilities, including but not limited bo serving banquets, bussing dishes to and from the kitchen and dining room, unloading dishes into the racks for the dish machine, polishing copper and assisting waitresses when necessary Must have ability to read and speak English. Experience in service oriented environment preferred. Must be 18 years old. H86-354

While still at MIT he was elected chairman of the board of the Flight Safety Foundation, Inc., a nonprofit organization devoted to air safety. He also was president of Browne and Shaw Company, Inc., which specialized in mechanical equipment applications for the aircraft industry, and of the Browne and Shaw Research Corp.

In 1969 he became assistant secretary for research and technology in the Department of Transportation before being named chairman of the Civil Aeronautics Board by President Nixon. As head of the agency responsible for the economic regulation of the airlines, he was widely credited with helping restore the airline industry to profitable operation.

He resigned as CAB chairman in 1973 and returned to MIT for two years as a visiting professor in the Department of Aeronautics and Astronautics, where he was involved in the Advanced Study Program in Air Transportation. A widely sought consultant, he also formed Secor D. Browne Associates of Washington, D.C.

Mr. Brown was born in Chicago. He received a bachelor's degree from Harvard University and served nearly four years in World War II, enlisting as an aviation cadet and rising to the rank of major.

Known for his charming manner and his wit, Mr. Browne defended his action as CAB chairman in making bargain charter flights

Word has been received of the March 3 death of Mary O. East, 77, of Boston. Miss East was a senior secretary in the Department of Economics from 1964 until her retirement in 1974. She leaves no survivors.

Joseph Simone

Joseph L. Simone, 85, of Reading, formerly of Watertown, an accounting clerk at the Lincoln Laboratory Fiscal Office from 1952 until his retirement in 1965 died March 22. He is survived by his children, Thomasina S. Kelly, Peter F. and Robert T. of Reading; Grace Driscoll of Weymouth; Rita Neville of Waltham; Joanne Yore of Somerville and Joseph A. of East Falmouth; two brothers, Thomas of Revere and Anthony of Watertown; two sisters, Teresa Bellantoni and Ann Tornabene, both of Newton Center; 20 grandchildren and five great grandchildren.

Wallace Fleming

Wallace Fleming, 87, of Milton, a project machinist from 1952 until his retirement in 1966, died March 28 after a long illness. He had managed the Civil Engineering laboratory in the hydrodynamics for 14 years. He is survived by a sister, Mary Fleming of Milton, and several nieces and nephews.