Massachusetts Institute of Technology

March 12, 1986 Volume 30, Number 24



No Tech Talk

Tech Talk will not be published March 26 because of the break for spring vacation. The Institute Calendar in next week's paper will cover the period from March 19 through April 5. Deadline for submitting listings for that paper will be, as usual, at noon Friday, March 14.

Smoking & weight

A new study aimed at preventing weight gain in people who quit smoking is underway in the Clinical Research Center and is seeking subjects. Dr. Judith Wurtman, research scientist in the De-partment of Applied Biological Sciences is conducting the study.

The study requires very little of the subjects except that they have stopped smoking and be willing to drink some tryptophan containing apricot juice twice a day and be weighed once a week. Call Dr. Wurtman, x3-6737 to sign up.

Summer Session

The Summer Session Catalogue for the term beginning June 9 is now available in the Information Center, Rm 7-121.

CU banquet

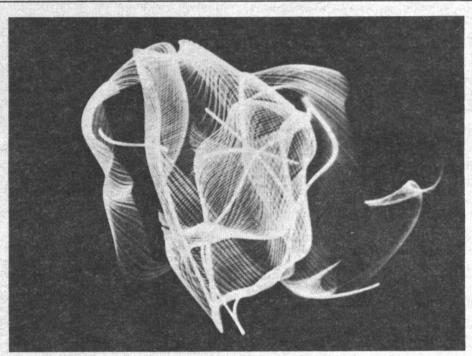
The annual banquet of the MIT Employees Federal Credit Union will be held Saturday, April 5, at 7pm at the Montvale Plaza in Stoneham. Tickets are \$13 each and will be limited to two per member. Tickets will be sold on a first come, first served basis beginning Friday, March 14, in the lobby of E18, 11:30am-2:30pm an in A270 at Lincoln, noon-2:30pm.

Swim school

A very few spaces are left in the spring pre-school swim program for children aged 2¹/₂ to 5 years old. Classes—requiring parental participation—will be held Saturday mornings for eight weeks beginning March 22. There is a \$40 fee for the classes. For further information, call the Child Care Office, x3-1592.

Wellesley life

A limited number of MIT undergraduates will be able to live and study at Wellesley next year as part of the residence exchange. MIT students now living at Wellesley, including seniors Dan Strahs and Helene Weisser will discuss their experiences at an informational meeting Wednesday, March 19, at 4pm in the



Composer Paul Earls' image of an oboe's music captured by laser. See story on -Photo by Nishan Bichajian page 5.

Executive Committee sets policy on South African investments

The Executive Committee of the MIT Corporation, in a statement issued Friday, March 7, said that the presence in South Africa of US corporations which have signed and are implementing the Sullivan Principles "is, on balance, a positive force in that nation at this critical time.'

Therefore, the Executive Committee said, it continues to hold the view that, as a general principle, "it would be neither desirable nor productive for MIT to divest automatically of ownership in US corporations which presently have some operations in South Africa."

However, the Executive Committee statement said, US companies in which MIT invests should foster equal opportunity in the conduct of their own affairs in South Africa and should work, in the larger society, to eliminate the laws and customs which impede social and political justice. This means that MIT should invest only in corporations which are Sullivan Principle signatories and which are making progress in the implementation of

Japanese table

In response to increased interest in Japan at MIT, a Japanese table will be formed each each Tuesday from 1-2pm in the Center Lounge at the Student Center. The table, sponsored by the Japan Science and Technology Program and the Wellesley-MIT Exchange Program, will be hosted by Japanese. It offers the opportunity to practice Japanese and to become friends with Japa

those principles. It means, also, that MIT should divest its stock in companies whose conduct is not acceptable according to the principles stated above.'

MIT's general investments, including endowment, and other invested funds, amounts to about \$930 million. About 18 per cent of that-about \$160 million-is invested in US corporations with operations in South Africa. MIT does not invest in South African companies or in companies whose principal activities are in South Africa.

The Executive Committee held its regular monthly meeting Thursday, March 6. The MIT Corporation, at its its regular quarterly meeting Friday, March 7, adopted the Executive Committee report.

The Executive Committee policy statement has been mailed to the MIT faculty.

The Executive Committee endorsed Institute participation in the South African Educational Program—designed to bring black South African students to the United States for graduate study—and in the New England Board of Higher Education Program, in which MIT, as part of a larger program, will support at least three black undergraduate students in integrated South African universities for three years. The committee also encouraged MIT President Paul E. Gray to explore the possibility of further MIT participation, either with other universities or alone, "in programs of educational development, research, or study of significant value to integrated universities Africa or to black South Af leaders.

Room, board tuition to rise to \$16,150; 6% increase

Tuition, room and board will increase by 6 per cent in 1986-87, going up \$920 from \$15,230 this year to \$16,150 next year. The increase last year was 5.8 per cent.

The tuition component will be increased by \$800, from \$11,000 this year to \$11,800 next year, an increase of 7.3 per cent.

The average room and board component will be increased by \$120, from \$4,230 to \$4,350.

President Paul E. Gray, in announcing the increase, said MIT will continue its policy of meeting the full demonstrated need of all undergraduate students. "We will not require an increase in the level of self-help at all this year," he said, adding that holding self-help at last year's level would ease the financial burden of these cost increases for students needing aid. The self-help level, now at \$4,900, is the amount of money each aid recipient is expected to borrow or to earn during the academic year, before scholarship grants are made available to meet the student's financial need.

Some 54 per cent of MIT's approximately 4,500 undergraduates receive financial aid, which is provided through grants, loans and jobs

Educational costs at the university, President Gray said, are met by tuition income, by earnings from the endowment and by unrestricted gifts and grants. Gifts and grants of this nature should be added to the endowment for the benefit of future generations, President Gray said, but in recent years have had to be used in whole or in part to meet educational expenses

Community Service Fund drive opens

A solicitors meeting today (Wednesday, March 12) at 11am in the Student Center Mezzanine Lounge will launch the 1986 Community Service Fund (CSF) drive. Refreshments will be served and solicitors will be briefed by representatives of some of the organizations the Fund helps to support.

CSF is now in its 17th year as an internal charity at MIT. It is mainly supported by contributions from students, staff, faculty and alumni. Its purpose is to reinforce the work of MIT volunteers in dozens of local area service organizations and projects.

One of the CSF hallmarks has been providing small amounts of seed money to innovative social action projects. Proposals for such grants, as well as for ongoing programs may be sent to Ron Suduiko, CSF Secretary, Rm 5-208.

Moore Room (6-321).

Applications for the residence exchange are available in the Exchange Office, Rm 7-108, x3-1668, and are due by Monday, March 31.

Auditions

Auditions for the Dramashop's spring major production, a play by contemporary Italian writer Dario Fo, will be held next Monday through Wednesday (March 17-19) at 7:30 in Kresge Little Theatre. Director will be Robert N. Scanlan, head of the MIT Drama Program. The production is scheduled for early May. For more details call x3-2877.

SDI report

Copies of the Summary Report of the MIT Symposium on the Strategic Defense Initiative, held on November 23, are available to members of the community. For details, call the Defense and Arms Control Studies Program at x3-7981.

are asked to bring bag lunches.

Facts wanted for celebration

The News Office is looking for a few good facts about MIT-125 to be preciseto celebrate MIT's Quasquicentennial. Profound or frivolous, involved or simple, as long as it's factual, we'll be happy to hear it

For instance:

-The sculptor of the Minute Man in Lexington and the Lincoln Memorial in Washington was Daniel Chester French who was graduated from MIT in 1871.

-Radar was developed at MIT during World War II.

-With teams in 36 sports, MIT is the most active college in the nation in NCAA Division III athletics.

-Ellen Swallow Richards was the first woman student at MIT. She entered in 1871 and received her SB degree in 1873. It is expected that the freshman class entering in 1986 will be more than 30 per cent female.

-An MIT dormitory, Baker House, is

the only building in the United States designed by the noted Finnish architect, Alvar Aalto.

We're hoping to put 125 such facts on post cards and distribute them to a small list of selected editors and communicators across the country to acquaint them with the breadth and diversity of life at MIT. The postcards will be mailed at the rate of three a week throughout the Institute's 125th year.

We want to find the best 125 facts we can-items that are impressive, amusing, surprising, counterintuitive. You and your knowledge of MIT are our best source of facts. Please help us in our project by sending along facts from your recollections. Since the Quasquicentennial Year will begin next month, we need facts soon.

Send your facts to MIT Facts, Rm 5-111. Include your name and extension so that we can reach you with any questions we may have. We'll share the best of the facts with you in Tech Talk as space permits.

Feshbach to receive Medal of Science

Institute Professor Herman Feshbach of the Department of Physics will receive the National Medal of Science at White House ceremonies scheduled to begin at 1:15pm today, Wednesday, March 12.

The announcement from the White House said Professor Feshbach was selected for the honor because of "his distinguished contributions to science as a nationally acclaimed leader in physics education by virtue of his extraordinary interests in teaching and his total commitment to scientific excellence." President Reagan was expected to present the medal to Professor Feshbach and the others being honored.

Dr. Feshbach, recognized as an international leader in nuclear theoretical physics, came to MIT after receiving the BS in 1937 from City College of New York. He received the PhD from MIT in 1942 and joined the faculty in 1945. From 1967-73 he was director of the Center for Theoretical Physics and from 1973-83 was head of the Department of Physics.

INSTITUTE NOTICES

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

Announcements

All Second Term Sophomores Considering a Career in Medicine – should make an appointment this term for a premedical advisor. Phone x3-4737 or come by Rm 12-170, Of-fice of Career Services and Preprofessional Advising.

Medical School Applicants '87 - Deadline for April 19 MCAT administration is March 21. Packets can be picked up in Rm 12-170.

Graduate Women Students - Are invited to an informal meeting with Dean Jackie Simonis and Lynn Roberson of the Office of Student Affairs, March 19, 4pm, Rm 10-340. Come talk about your research and dissertation writing, social and work relationships, or. ..? For info, call x3-4861.

Survey of Majors Panel Discussion* - Society of Women Engineers Program to help freshmen choose a major, Thurs, March 13, 5pm, Rm 4-163 with Prof Susan McNeil, civil engi-neering; Prof Renee Fitts, applied biological sciences; Prof James Higginbotham, linguistics & philosophy; Prof Heather Lechtman, anthropology/archaeology; Thurs, March 20, 5pm, Rm 4-163, with Prof David Housman, biology; Prof Susan Carey, neurohology; Dr Linde French earth atmospheric & planetary psychology; Dr. Linda French, earth, atmospheric & planetary sciences; Prof Theo Theoharris, literature. Refreshments served.

MIT-Wellesley Exchange Program - Current MIT par ticipants will discuss the program, Wed, March 19, 4pm, Rm 6-321. Refreshments served. Applications and additional info: Wellesley-MIT Exchange Office, Rm 7-108, x3-1668. Deadline for applications: Mon, March 31.

Career Planning and Placement Company Recruitment Presentations** - Mass. Exec. Office for Administration and Finance, March 12, 4-6pm, Rm 4-153. Naval Research Laboratory, March 12, 5-7pm, Rm 4-145. Areo Solar, Inc, March 12, 7-9pm, Rm 4-153 – for minority students. Bankers Trust, March 13, 4:30-6:30pm, Rm 4-149 – graduate students only; US citizenship required. E Systems/Melpar Division, March 13, 6-8pm, Rm 1-135. Lord Corporation, March 13, 7 are 14:0. 7-9pm, Rm 4-149.

TCA/American Red Cross Blood Drive - March 12-14, Stu dent Ctr Sala de Puerto Rico. Info: x3-7911.

Jeffrey L. Pressman Award for Political Science - open to all MIT juniors. Application deadline, March 14. Information available in Rm E51-201G or from the Political Science Undergraduate Office, Rm E53-460, x3-3649.

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 now by picking up registration form at Office of Career Services, Rm 12-170.

Pre-School Swim Program - There may be a few spaces left in the spring program to children aged 2.6-5 years old. For info, call the Child Care Office, x3-1592.

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). Prepayment required Price: \$20; \$5/MIT 2) 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 admission 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 desk.

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 term, 7pm-7am. If you need information about anything or you just want to chat, give us a call. We're here to listen. x3-7840. naments monthly. Handicap game, 3rd Tues every month. Info call Gary Schwartz, x8-2459 Draper, or Mark Dulcey, 272-8428. : \$1/students \$2/ tuder

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, Rm NE43 3rd flr 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 Kun-dalini Yoga, the science of awareness, MTW, 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

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

MIT Wonhwa-do Club* — 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 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. Con-tact 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* - Roman Catholic Masses: Sun 9am, 12noon, 5pm (& 10pm, through 3/16); Weekdays: 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 Services* - Fri, March 14: Conservative/Reform, 5:30pm, Hillel (W2a); Community Shabbat Dinner, 6:45pm, Hulsizer Rm, \$6.50 paid dinner reservations due by Thurs at Hillel. Cash and Validine accepted. **The Jewishness of Woody** Allen – Allan Gould, humorist and journalist, Ashdown House Hulsizer Rm. Sat, March 15: Conservative services cancelled. Thurs, March 20: Hamentaschen Sale in Lobby 10.

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 Rm 491; small group meetings for Bible Study and support, weekly at different times. For more info, call Chiu-Oan, x5-6123 dorm

MIT Graduate Christian Fellowship* - Come meet other Christian faculty, staff and grad students: weekly lunch gatherings, 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.

Cosmology Discussion: A Comparison of Biblical and Scientiric Accounts⁴ - First meeting, MIT Graduate Chris-tian Fellowship discussion group, Mon, March 17, 7-9pm, Rm 10-280. Contact John Moody, x3-8642 or 868-5262.

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

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. Office of the Dean of Graduate School, Rm 3-134A. Deadline: March 31, 1986.

Boston Chapter of Links, Inc. Awards for Black Graduate Students in Need of Financial Aid. Awards averaging approx-imately \$1,000 for Black graduate degree candidates in need of financial aid who are pursuing a course of study at an accredited college or university, not limited to a particular field of study Applicant must be a legal resident of the Greater Boston area (registered voter), or have grown up in the area and attended Boston schools. Applications available from Linda Peterson, Rm 3-134A. Deadline: April 1, 1986.

International Opportunities

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

Petroleos de Venezuela (USA) Corporation will be interviewing students from Venezuela and the Netherlands Antilles who will be graduating in 1986, at the Boston Colonnade Hotel, March 17-18. They are particularly interested in students graduating in computer science, business administration, economics, geology, geophysics, international law and all fields of

Eckert Research International Corporation is interested in noti-Eckert Research International Corporation is interested in noti-fying Japanese-literate engineering and computer science graduates, in all areas, of career opportunities. They are a high-technology engineering firm based in Tokyo and candidates will be asked to live in Tokyo for a few years.

Philip Morris International is seeking Guatemalan students who are interested in returning home after their studies. Can-didates must be completing their MBA with specialization in marketing.

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: Video Marketing (video services for the real estate industry) in Lincoln, Mass has an internship available for someone to help with production of two programs: Real Estate Review shown on Channel 26 and VMLS, a video listing service distributed weekly to real estate brokers.

Internships Offering a Stipend:

American Airlines, Dallas/Ft. Worth, Texas, has a summer internship available for an Operations Research Analyst. They seek students working towards a Master's of PhD degree in Operations research. You must apply immediately for this internship.

Columbia University School of Dental and Oral Surgery has a summer internship program available for students interest dentistry. The program gives students the opportunity to con-duct research, to participate in the various divisions of the dental school and to enroll in a three credit liberal arts course at Columbia's summer school. Application deadline: April 1.

The Harbor Branch Foundation. Inc in Fort Pierce, Fla has a Summer Intern Program designed to give undergrads work ex-perience in a research environment dealing with marine sciences and the development of tools and systems for underwater oceanograhic investigations. Application deadline: April 18.

Home Box Office (HBO) in New York City announces their Summer Intern Program for graduate and undergraduate students who have completed their next to last year of school. Interns may be called on to carry out special projects such as evaluating the effectiveness of a marketing program; analyzing the finan cial terms of a film acquisition deal; constructing a financial model for a prospective production venture; or analyzing the ef-ficiency and cost-control factors of HBO's distribution system. Application deadline: March 18

Student Jobs

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

Center for Technology Policy and Industrial Development needs a receptionist for part-time work. Will answer phones, sort mail, do some copying, filing and hand deliveries on campus. Hours available are 10am-5pm, M-F, but shift may be split between several people. Salary is \$5.50/hr. If interested, contact Inna, x3-1661, Rm E40-213.

XEnergy, Inc seeks a part-time programmer for their data systems group. Will assist director of Software Development on various programming jobs related to projects in-house. Current undergraduate candidate id o.k. Pl/1 programming experience required. VAX/VMS experience a plus. Right candidate could expect to be hired full-time after graduation. Hours are full-time summer, and the pay is \$10-12/hr depending on experience. Con-tact: Robert MacBain, XEnergy, Inc, 60 Mall Rd, Burlington, MA 01803, 273-5700.

Receptionist wanted to work in very pleasant office. Must be personable person to answer 4 phone lines, light typing, handle mail, and greet visitors. Must be willing to train on word processor. Hours are flexible, 25-30/wk. Pay is \$5-\$5.50/hr depending on experience. Contact: Carol Jaillet, 576-3289.

Computer programmers needed. Will work with high-level languages, data bases, microcomputer languages and assembler, and expert systems. Start-up opportunities and project work available. Hours are flexible, part-time. Salary is very good, and dependent on experience. Contact: Russell Frye, ITCG, 1315 8th St, Boston, MA 02121, 241-9310.

Office assistant needed for the Computerized Literature Search service. Will provide assistance to staff. This is a fee-based ser-

Albert Pellecchia

Albert V. Pellecchia Sr., 66, of Somerville, a retired supervisor for graphic arts, died in Mt. Auburn Hospital, Cambridge, March 6, after a short illness. He was employed by MIT for 39 years. He leaves his wife, Elizabeth (Bargoot); three sons, Albert V. Jr. and Darnell J. of Somerville, and Dennis S. of Medford; two brothers, Joseph and Peter of East Boston; a sister, Dominica Pellecchia of East Boston, and four grandchildren.

Armand Bouvier

Armand Bouvier, 62, of Pawtucket, R.I., died February 27 after a long illness. He worked at Lincoln Laboratories from 1954 until 1982. He leaves his wife, Gertrude, and three sons, David, Edward and Donald.

Gordon H. Smith

Word has been received that former coach, Gordon H. Smith, 85, of Wolfboro, N.H., died September 23 in Auburn, Maine. He was employed at MIT from 1936 until his retirement in 1965.

Experiments for Educational Use. Versatile, improvisatory students wanted for development and test of experiments in sim-ple physics, chemistry, astronomy, etc, for educational use (print and tv). Both lab and field tasks. Resources, PAY, credit all available. Work between now and July; summer extension poss-ible. Contact: Prof Morrison, x3-5086, Rm 6-205 or x3-3718, Rm 6-212.

Expert System for Designing Microprocessor-Based Products. UROPer to help develop an expert system for designing microprocessor-based products. Student will develop a database and query system containing information on 16- and 32-bit ors. Faculty supervisor: Prof Steven Kim, x3-2249. Contact Steven Hom, x3-5028.

Dept of Aeronautics and Astronautics Athena Project. Openings for programming modules developed by the faculty for teaching topics in aerodynamics and fluid mechanics. Limited to sophomores and juniors majoring in aeronautics and astronautics; need programming background equivalent to a B grade in 1.00 or 2.10 and know FORTRAN. May continue in mmer and fall, Contact Prof. Earll M. Murman, x3-3284, Rm. 33-217

Cable Television Schedule

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

Wednesday, March 12

Channel 9: 9-10:30am – 12.524 High Frequency Seismology. 12-1pm – Oceanography Sack Lunch Seminar. 2-3:30pm – 13.862 Ocean and Seabed Acoustics II.

Channel 10: 10:30am-12noon - Live coverage of the MIT Optics and Quan tum Electronics Seminar

Thursday, March 13

Channel 8 6pm - 8.02 Help Session #6. Program will repeat until 9am, 3/19.

Channel 9: 9-10:30am - 12.524 Theoretical Seismology.

Friday, March 14

Channel 8 8.02 Help Session #6. Program will repeat until 9am, 3/19.

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

Saturday, March 15

Channel 8: 8.02 Help Session #6. Program will repeat until 9am, 3/19.

Sunday, March 16 **Channel 8**: 8.02 Help Session #6. Program will repeat until 9am, 3/19.

Monday, March 17

Channel 8: 8.02 Help Session #6. Program will repeat until 9am, 3/19.

Channel 11: 2-3:30pm - 13.862 Ocean and Seabed Acoustics II. Live from WHOI.

Tuesday, March 18

Channel 8: 8.02 Help Session #6. Program will repeat until 9am, 3/19. 4:30-6pm - Live Coverage of the MIT Biology Colloquium.

Channel 9: 4:30-6pm - 8.02 Help Session #6.

Channel 10: 4-5:30pm - Live Coverage of the MIT VLSI Seminar.

Channel 11:

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

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 nonth, 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-

Page 2, Tech Talk, March 12, 1986

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,

Noon Bible Study* - Every Wed, Rm E17-109, bring lunch. Ralph Burgess, x3-2422. (Since 1965).

Edgar Cayce Study Group⁶ - 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

American Hospital Association/American Institute of Architects Graduate Fellowship in Health Facility Design. One or more fellowships not exceeding \$6,000 available to citizens of the US and Canada who have received an accredited architectural degree, who are are in the final year of undergraduate work leading to such a degree, or who are en undergraduate work leading to such a degree, or who are en-rolled in a Master of Architecture program designed for those with previous architectural training. Fellowships available in three optional settings. Information and applications: Linda Peterson, Rm 3-134A. Deadline: March 15, 1986

Carroll L. Wilson Awards, Awards of \$5,000 given to one or more undergraduate and/or graduate student in any MIT department based on competitive evaluation of proposals. The aim of the Wilson awards is to provide opportunities for MIT students to pursue a challenging activity which would have excited the interest and enthusiasm of Carroll Wilson. Applications for for the Wilson award can be obtained Linda Peterson,

vice providing on-line search capabilities to students, faculty, and staff as well as clients outside the Institute. Phones, greet clients and interpret service and scheduling appointments are some duties. Also, typing, filing, and copying. Hours are 6-9/wk, 3 hrs daily, afternoons only. Pay is \$5.60/hr. Contact: Joan Whit-taker or Mary Pensyl, x3-7746, Rm 14S-M48.

UROP

MIT and Wellesley undergraduates are invited to join with faculty members in pursuit of research projects of mutu al fa 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 supervisors wishing to have projects listed should send project descriptions Rm 20B-141. to the UROP Office Questions? Contact us, x3-5049,

Eloranta Summer Fellowship Program. Several \$4,000 research fellowships for MIT undergraduates will be awarded this spring for work to be done during the summer. Areas of study may be in any field: science, engineering humanities Tavel is encouraged. Originality is rewarded. Deadline is March 31, 1986. Contact the UROP Office for more details.

Carroll L. Wilson Awards. See Graduate Studies listing Nuclear Engineering UROP Awards. Several awards are given to encourage research with faculty in the Nuclear Enginee ing Dept. Freshmen are encouraged to apply. Contact: Prof Ronald Ballinger, x3-5110, Rm 24-215 for more details.

Computerized Photo Booth. Student will retrofit shopping mall photo booth, installing 16mm camera, lights, and Profes sional Computer. Student should have basic and finishing arpentry skills, electronic and programming skills to control the camera and lights with the computer, and ability to create a database on the PC of the film. Work independently 12 flex-ible hrs/wk. PAY or credit. Faculty supervisor: Glorianna Daven-port. Contact Guy Guillet, MIT Media Lab, x3-1607, Rm E15-428.

Wednesday, March 19 Channel 8: 8.02 Help Session #6. Program will repeat until 9am.

Channel 9:

9-10:30am - 12.524 High Frequency Seismology. 12-1pm - Oceanography Sack Lunch Seminar. 2-3:30pm - 13.862 Ocean and Seabed Acoustics II.

10:30am-12noon - Live coverage of the MIT Optics and Quantum Electronics Semi



March 12, 1986 Volume 30 Number 24

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Professor Jay (for Jazz) Keyser: MIT Music Man

By CHARLES H. BALL Staff Writer

Jay Keyser leaned back in his office chair, pursed his lips and whistled his way through the beginning of a ballad for his listener. "Do you remember it?" he asked enthusias-

tically. "That's one of the ones I did.

Keyser, MIT's associate provost for educational programs and policy, was recalling the time he played first trombone with a 17-piece dance band in Washington, D.C., while attending George Washington University. "I did solos," he said, "but for some reason

the only ones they let me do were whistling. So I went up to the mike and whistled." Then some drunk would suck on a lemon or chew crackers in front of him, trying to dry up his whistle, he said, "but I never let it bother me."

Keyser's professional world revolves around linguistics and undergraduate education, but his thoughts seem never far from music, which has had a hold on him since childhood. And after putting his trombone aside for 25 years, he once again is producing soulful notes and jazz riffs in appearances with the MIT Concert Jazz Band and other groups.

Samuel Jay Keyser was born in Philadelphia, Pa., 50 years ago, the only child of an accountant and a stenographer. "My mother once loaned Nelson Rockefeller \$5 for lunch when she was a secretary at the Pentagon during World War II," he said, recalling a favorite family story.

The family had moved to Washington when he was three, and it was there that music came into his life. "John Philip Souza's sister lived across the street in a house where the shades were always drawn," he recalled. And he was two blocks down from the Marine Corps headquarters, where he used to go regularly to hear the Marine Corps Band at reviews and parades playing Souza's "Stars and Stripes Forever," among other things. "Some of the finest musicians in the country played in that band," he said.

In 1945, when he was 10, Keyser began studying trumpet and trombone and played in the Boys Club of Washington Band. His teacher, at \$1.50 an hour, was Robert Clark of the Marine Band.



Keyser also was displaying some early academic prowess, skipping four grades and graduating from high school when he was 15.

Keyser studied English literature and philosophy at GWU, all the while thinking he might be a lawyer, and received a BA in English with distinction and special honors in 1956. He then moved on to Oxford University in England for two years as a Fulbright scholar ("I wanted to avoid working as long as possible"), receiving a second BA with honors in 1958 and an MA in 1962, both in English.

His curriculum vitae doesn't show it, but while at Oxford he played trombone in a Dixieland jazz band, at the same club where Dudley Moore, then a pianist and later to become a movie star, played.

Keyser's next stop was Yale University,



John R. Dale, right, a graduate student in architecture, recently received the third annual Marvin E. Goody Prize from Professor Frank E. Perkins, dean of the Graduate School. The Goody Prize was established to encourage links between the academic world and business and industry and to recognize the relationship between good design and good building. It carries a \$5,000 honorarium for the winning thesis. Mr. Dale's thesis is "Reinhabiting the Fort Point Channel: A Proposal for Transforming and Extending the Warehouse District in South Boston."

-Photo by Calvin Campbell

Dr. Richard Adler honored by IEEE Professor Richard B. Adler of MIT, a major "His contribution to electrical engineering

figure in the revolutionary changes that pedagogy is amply documented by two sets of textbooks: a pair in the area of electromagnetic fields and waves, and a series in semiconductor electronics," the IEEE said.

where he received an MA in 1960 and a PhD in 1962, both in linguistics.

Linguistics might well have lost the new PhD at the point, because he had decided it was "trivial" and was prepared to leave the field. But then he was invited to MIT by Professor Noam Chomsky, who was helping to make MIT one of the leading linguistic centers in the world.

"I met him on the steps of Widener Library at Harvard," Keyser recalled, "and later over a cup of coffee I realized I was talking to someone very special, who said they needed and wanted me at MIT."

To describe his feelings at the time, he turned-not surprisingly-to a musical metaphor. "It was like a 15-year-old kid who plays the cornet, and Bix Beiderbecke invites him to sit in on a set.'

Keyser came to MIT as a research staff member in theoretical and historical linguistics at the Research Laboratory of Electronics, but left for two years to serve as a first lieutenant in the Air Force, fulfilling an ROTC obligation incurred at GWU.

After returning briefly to MIT, Keyser taught linguistics at Brandeis University in Waltham, rising to full professor, and in 1971 returned to London with a Senior Fulbright Award to serve as an honorary guest lecturer for a year at University College.

Back in the United States, he served as head of the Department of Linguistics at the University of Massachusetts at Amherst until 1977, when he became head of the MIT Department of Linguistics and Philosophy, and professor of linguistics. And there he remained until this past summer, when he was asked to play a leading role in the reassessment of MIT's undergraduate educational program initiated by Provost John M. Deutch.

As a linguist, Keyser is a highly regarded authority on the history and structure of the English language, and on linguistic approaches to literary criticism. He is the author or coauthor of more than 20 scholarly articles. as well as two books.

As a musician, he acknowledges with some chagrin, he is somewhat less accomplished. But he is determined, now that he has taken up the trombone again, to see just how good he can be

"About five years ago I got out my horn and a friend said, 'You're wasting your time. Get a teacher,' "Keyser said. He took the advice, and he now practices for his lessons about an hour a night. He also auditioned with the Intermission Trio, made up of MIT faculty members, and has since taken over management of the group. At about the same time, he joined the MIT Concert Jazz Band after auditioning for its director, Everett Longstreth.

Keyser has a new trombone, which has put even more luster on what he does give himself credit for-"a professional tone.

"I've always had good tone," he said, but believes that he still comes up short on improvisation, in which jazz players break the bonds of written music and soar into creative interpretations of the basic composition.

He said he is seldom satisfied with himself as improviser—although there have been some special moments. He comments that he's "not a natural," explaining, "When I do this, it's not like science. You don't intellectualize it."

Keyser, a hefty, rumpled man known for his warmth, good humor and closeness with students, has been housemaster at Senior House, with his wife, Margaret, for five years. Their children are Rachel, 26, an art broker in New York City; Beth, 24, who works with retarded people; and Benjamin, 20, who is studying photography at the Rhode Island School of Design and who set up the photo lab at MIT's Arts and Media Center.

Keyser's new role as associate provost has given him a heaping plate of new challenges, but it seems he will always find time for the special challenge of jazz-and for the joy his music brings him.

"What would make me happy?" he asks, repeating his visitor's question. Keyser names a trombonist for a highly-regarded Boston area jazz band. Then he answers that he'd like to be "good enough" so that one night when the trombonist is sick, the band leader will call him and say, "Will you fill in?

Sharp named to Class of '41 chair

Dr. Phillip A. Sharp, the internationally respected molecular biologist who directs the

Center for Cancer Research, has been named the first holder of the Class of 1941 Professorship at MIT.

The professorship recognizes innovative teaching by outstanding faculty members whose careers reflect the traditional close coupling of teaching and research at MIT. It was established by the members of the class to observe their 40th anniversary.

Dr. Sharp's appointment was announced by John M. Deutch, MIT provost and Arthur C. Cope Professor of Chemistry.

Professor Deutch said Dr. Sharp was selected to hold the chair because of his "outstanding contributions to both education and scholarship in cellular and molecular biology:" Professor Deutch specifically cited Dr. Sharp's recent work on the mechanisms of production and processing of functional messenger RNAs (ribonucleic acids) as "especially outstanding and timely."

Dr. Sharp has headed the Center for Cancer Research since 1985. He has been a member of the center and of the Department of Biology since 1974. From 1983 until 1985 he was the center's associate director.

Dr. Sharp helped established a very popular undergraduate biotechnology laboratory course and currently teaches in courses covering virology and cell biology. He has also trained a number of graduate students and

research fellows who are faculty members at major universities.

The Center for Cancer Research emphasizes research in molecular aspects of cancer and cell biology. The staff numbers approximately 175 people-about 150 of them in research positions-including faculty members, staff researchers and graduate students. Research is carried out in virology, immunology and cellular and developmental biology.

Dr. Sharp's work in the late 1970s led to one of the major discoveries in genetics, a discovery that "threw the world of theoretical genetics into confusion," Fortune magazine once wrote. Dr. Sharp and his colleagues discovered that genes in cells containing a nucleus are fundamentally unlike those in unnucleated single-cell bacteria that had previously been the principal subjects of DNA research. Genes in bacterial cells form a continuous sequence along the DNA strand, but in the nucleated cells of higher organisms-and in the viruses that infect them-the genes are distributed in widely spaced segments separated by apparently surplus DNA. Since then Dr. Sharp and others have found that nucleated cells selectively remove great loops of surplus sequences and splice the remaining sequences which are then translated into the proteins that are the building blocks of living things.

Dr. Sharp, 41, holds the BA (1966) in chemistry and mathematics from Union College, Barbourville, Kentucky, and the PhD (1969) in chemistry from the University of Illinois. From 1969-71 he was a postdoctoral fellow at the California Institute of Technology and from 1971-72 at Cold Spring Harbor Laboratory. From 1972-74 he was a senior research investigator at Cold Spring. He joined MIT as

transformed the teaching of electrical engineering and electronics over the last 20 years. has been honored by the Institute of Electrical and Electronics Engineers (IEEE) with the Medal in Engineering Education.

Dr. Adler is Distinguished Professor of Electrical Engineering and Computer Science and associate head for electrical science and engineering of the Department of Electrical Engineering and Computer Science.

The IEEE announcement cited Professor Adler for "leadership in engineering education through teaching and textbooks in semiconductor electronics and electromagnetics.' The award consists of a gold medal, a bronze replica, a certificate and \$5,000.

Perri Klass to speak

"An Insider's View of Writing about Medicine" will be offered by author Perri Klass, a student at Harvard Medical School Thursday, March 13, from 6-8pm in Rm 14E-304.

Ms. Klass is the author of the novel Recombinations as well as a contributing columnist for Discover Magazine and the New York Times. Her talk at MIT is sponsored by the Writing Program.

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"His collaboration with (Robert) Fano and (Lan Jen) Chu led to the publication of 'Electromagnetic Fields, Engergy and Forces, and 'Electrical Energy Transmission and Radiation,' textbooks which revolutionized the teaching of traditional electrical engineering in the late 1950s. Material which had been taught only in graduate subjects or research seminars was now for the first time presented at a level appropriate for undergraduate instruction. In the 1960s he established the Semiconductor Electronics Education Committee, a group of 30 leaders in the field from both industry and university. He was technical director of this group, and as such must be given the primary credit for the texts and films the group produced. Viewed from the perspective of the past 20 years, the work of this committee totally reshaped the teaching of electronics throughout the the IEEE said in presenting the country,' award.

Professor Adler, who attended Harvard College (1939-41) and received the SB (1943) and ScD (1949) from MIT, has been a member of the faculty since 1950.

an associate professor in 1974 and was promoted to professor in 1979.

Conference set for March 15

Evelyn Fox Keller, a leading authority on gender in science and author of Feeling for the Organism, the biography of Nobel Prize winner Barbara McClintock, will be the keynote speaker at a conference for women in the technical professions at MIT on March 15.

The conference, sponsored by the Association of MIT Alumnae (AMITA) and the Society of Women Engineers-Boston Section, is entitled "Women on the Pyramid: Power in Technical Careers." It will explore the issues of power and authority as women advance in their technical careers. The conference is designed for women in all areas of technical professions, from accounting to medicine and engineering, and will address the personal, social and psychological aspects of career progression. The conference is the sixth in an annual series.

The plenary session will include such speakers as Dalia Etzion, head of the Department of Organizational Development at Tel Aviv University, and Air Force Brog. Gen. (Ret.) Wilma Vaught.

Professor Lotte Bailyn of the Sloan School of Management will report on her recent research comparing career issues for male and female engineers.

Afternoon workshops will be on such issues as "Managing Creativity", "Switching Careers", "Academia and Industry" and "Entrepreneurship." Personal aspects of career life will be covered in such workshops as "Running on Empty" (a discussion of burnout), and 'Is Time Running Out?" (a workshop on lifestyle choices and the biological clock).

The conference will begin with a cocktail reception Friday, March 14 at McCormick Hall. The conference itself will begin on Saturday, March 15, at 8:30am in Rm 10-250. Attendees may register either Friday evening or Saturday, or by mail.

For further information contact Margaret Coleman, conference chair, at 547-9236.

THE INSTITUTE CALENDAR

March 12-23

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 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 prefer a day's warning, but faster action may be possible. Useful also for correcting errors, notifying about cancellations, and dealing with emergencies. Note: If you have met the Tech Talk deadline, your an-

t is automatically put on cable (except for exhibits and some multimeetings programs).

Special Interest Events

Tech Community Women's Spring Crafts Faire⁶ - Hand-made crafts including jewelry, quilts, pottery, toys and eats sold by members of the MIT community, March 18-19, 8:30am-4:30pm, Lobby 10.

Seminars and Lectures Wednesday, March 12

Femtosecond Excitation of Non-Thermal Electron Hole Pair Distributions in GAAS Multiple Quantum Wells** -W.P. Knox, AT&T Bell Laboratories, EECS/RLE Seminar on Optics and Quantum Electronics, 11-12noon, Rm 36-428.

Building Evaluation: the IBM Project** - Cynthia LaCasse, research associate, Building Diagnostics Inc, and MCP degree student, MIT Joint Program for Energy Efficient Buildings & Systems/Laboratory of Architecture & Planning Seminar on Building Performance, 12-1pm, Rm 1-134. Bag Junchas wateren

Bottom Water Circulation in the Angola Basin^{*} - Kevin Speer, WHOI/MIT, Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-915.

An Unsteady Lifting-Line Theory^{*} - Prof Paul D. Sclavounos, MIT Dept of Ocean Engineering, Depts of Ocean Engineering/Civil Engineering Informal Hydrodynamic Seminar, 3-4:30pm, Rm 5-314.

Dielectric Properties of Water** - Jon Anderson, PhD candidate, Dept of Nuclear Engineering RST Seminar, 4pm, Rm 24-121. Refreshments served, 3:45pm

Ventilation of the Upper Ocean^{**} - Dr. William Jenkins, Woods Hole Oceanographic Institution, Dept of Earth, At-mospheric, and Planetary Sciences Colloquium, 4-5pm, Rm

Using Regulation of Stimulate Innovation for Environ-mental Control** - Nick Ashford, MIT, Ralph M. Parsons Laboratory Aquatic Sciences Seminar, 4pm, Rm 48-316.

Neurons with Multiple Messengers** - Dr. Tomas Hokfelt, professor of histology-cell biology, Karolinska Institute, Stockholm, Sweden, Whitaker College of Health Sciences, Technology and Management Distinguished Lecture in the Brain Sciences, 4:30-6pm, Rm 10-250.

Humanizing the Environment through Development⁶ – Raymond Nasher, president, The Nasher Company, Dallas Texas, MIT Ctr for Real Estate Development 1986 Hahn Lecture, 6pm, Rm 9-150.

Thursday, March 13

Chemical Studies of "Surface" Functionalized Polyethylene Prepared by Entrapment Functionalized rolytethylene Brepared by Entrapment Functionalization⁶ – Dr. David E. Bergbreiter, Dept of Chemistry, Texas A&M, Program in Polymer Science and Technology Polymer Seminar, 11-12noon, Rm 66-360. Refreshments served, 10:30am.

Active End-Effector Technology for Industrial Robots** – Prof Frank W. Paul, McQueen Quattlebaum Professor, Clemson University, Laboratory for Manufacturing and Pro-ductivity Seminar, 3-5pm, Rm 35-250. Refreshments served.

Information, Technology and the Virtues of Ignoran Prof Daniel C. Dennett, Ctr for Cognitive Studies and Depi of Philosophy, Tufts University, Laboratory for Computer s and Dept Science Distinguished Lecturer Seminar, 3:30pm, Rm 34-101. Refreshments served, 3:15pm. An Insider's View of Writing About Medicine** - Perri Klass, student, Harvard Medical School; author, *Recombi-nations*; columnist, Discover Magazine and The New York Times, Writing Program Seminar, 6-8pm, Rm 14E-304.

Friday, March 14

The Evolution of Soviet Civil-Military Relations** - Dr. Condoleeza Rice, Hoover Fellow, assistant professor, Stan-ford University, MIT Defense and Arms Control Studies Pro-gram Seminar, 11am-12:30pm, Rm E38-615.

Plastic Instability and Fracture in Steels** - Prof J.P. Hirth, Ohio State University, Ctr for Materials Science and Engineering Colloquium, 12:15pm, Rm 9-150. Lunch provided,

An Immobilized Enzyme System for Heparin Removal: Stability and Design** - Ann E. Reese, Chemical Engineering Seminar, 2pm, Rm 66-110.

Geothermal Reservoir Information from Reactive Tracers** - James H. Ferguson, Chemical Engineering Seminar, 3pm, Rm 66-110.

The Jewishness of Woody Allen* - Allan Gould, journalist and humorist, Hillel Lecture, 8:30pm, Ashdown House Hulsizer Rm.

Monday, March 17

New Strings From Old* - Prof Nicholas Warner, MIT, Ap-plied Mathematics Colloquium, 4pm, Rm 2-338. Refreshments served, 3:30pm, Rm 2-349.

Reynolds Stress Estimates in the Bottom Boundary Layer in the Presence of Waves^{**} – Dr. Bill Grant, Ocean Engineering, Woods Hole Oceanographic Institute, Dept of Civil Engineering Division of Water Resources and Environ-mental Engineering Seminar, 4pm, Rm 48-316.

Tuesday, March 18

Laser-Plasma Interactions** - Sergey I. Anisimov, Landau Institute for Theoretical Physics; Pavel P. Pashinin, In-stitute of General Diverse and Pavel P. Pashinin, Institute of General Physics, Moscow, Laser Research Ctr/George R. Harrison Spectroscopy Laboratory/Research Laboratory of Electronics/School of Engineering/Plasma Fusion Center Seminar on Modern Ontics and Spectroscopy. 11.12non. Laboratory of Electronicschool is lengtheaming russian russian Center Seminar on Modern Optics and Spectroscopy, 11-12noon, Rm 37-252. Refreshments served following seminar.

Soviet Military Objectives^{*} – Dr. Michael McGwire, senior fellow, Brookings Institution, MIT Defense and Arms Control Studies Programs Seminar, 12:30-2pm, Rm E38-762.

New Material Technologies for Integrated Circuits: Silicon on Insulator and Monolithinc GaAs/Si** - Bor-Yeu Tsaur, MIT Lincoln Laboratory, VLSI Seminar, 4pm, Rm 34-101. Refreshments served, 3:30pm.

Carbohydrate and Mood: When Willpower Doesn't Work* - Dr. Judith H. Wurtman, research scientist, MIT Dept of Applied Biological Sciences, Clinical Research Center Seminar Series on Battling the Bulge: Science and Obesity, 4-5pm, Rm E25-401.

sure Mineral Physics at Stony Brook** - Prof **High Pre** Robert Lieberman, Dept of Earth and Space Sciences, SUNY at Stony Brook, Dept of Earth, Atmospheric, and Planetary Sciences Colloquium, 4-5pm, Rm 54-918.

Smart Engines** - Prof A.H. Epstein, MIT Dept of Aeronautics and Astronautics, Dept of Aeronautics and Astronautics Gas Turbine Laboratory Seminar, 4:15pm, Rm 35-520. Refreshments served, 4pm.

A Recombination Stimulating Sequence in the Ribosomal RNA Gene Cluster of Yeast** - Dr. Shirleen Roeder, Dept of Biology, Yale University, Biology Colloquium, 4:30pm, Rm 10-250. Coffee served, 4pm, Bldg 56 fifth flr vestibule.

Learning the Past Tenses of English Verbs: Implicit Rules or Parallel Distributed Processing?** - James or Parallel Distributed Processing?** - James McClelland, Dept of Psychology, Carnegie-Mellon, Cognitive Science Seminar, 7:30-9:30pm, Rm 34:401. Comment-ary by Steven Pinker, MIT Dept of Psychology and Alan Prince, Dept of Psychology, Brandeis University.

Wednesday, March 19

Optical Parametric Oscillators** - C.L. Tang, Cornell University, EECS/RLE Seminar on Optics and Quantum Elecronics, 11am-12noon, Rm 36-428.

The Noisy Quiet Building: The Paradox of Acoustics in the Work Environment** - Carl Rosenberg, acoustics consult ant, Bolt, Beranek and Newman, Inc, and lecturer, 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 lunches welcome

A Simple Model of the Shelf/Slope Front in the Middle Atlantic Bight^{*} – Dave Chapman, WHOI, Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-411.

Negative Experiences with an Iterative Matrix Solver for Free Surface Problems⁹ - K. Shimada, Depts of Ocean Engineering/Civil Engineering Informal Hydrodynamic Seminar, 3-4:30pm, Rm 5-314.

Using Regulation to Stimulate Market Innovation** - Prof Nicholas A. Ashford, School of Engineering, Center for Technology, Policy and Industrial Development/Whitaker Col-lege of Health Sciences, Technology and Management Program in Health Policy Seminar, 4pm, Rm E25-401. Refreshments served, 3:30pm.

The Future in High Energy Physics** - Prof Samuel C.C. Ting, MIT, Physics Colloquium, 4pm, Rm 10-250. Refreshments served, 3:30pm, Rm 10-250 lobby.

Poly (N-blocked Hydroproline Ester): A Novel Class of Bioerodible Polyaminoacid for Controlled Drug Release[®] - H. Yu, Dept of Applied Biological Sciences Seminar, 4pm, Rm Bic

Electronic Publishing: The CD-ROM Option⁶ - Linda Moulton, Comstow Information Services; Julie Schwerin, InfoTech; David Roux, Datext, Communications Forum Seminar, 4-6pm, Wiesner Bldg Bartos Theatre, Rm E15-070.

Immigration and Earnings: The Case of Canada^{*} – Prof David E. Bloom, Harvard University, MTFHarvard Research Seminar on Migration and Development, 4-6pm, Harvard Ctr for Population Studies, 9 Bow St.

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

Modern Shipping Operations[•] - Captain Antonius H. Seesink, Reefer Express Lines, MIT International Shipping Club, 4:15pm, Rm E51-332. Refreshments served.

Sonic Art: Music in the Computer Age* - Trevor Wishart, composer, Experimental Music Studio Music and Technology Forum co-sponsored with Sound Art at Mobius, 8pm, Wiesner Bldg Bartos Theatre.

Friday, March 21

The Influence of Stress on the Stablity of Two-Phase Alloys* - Prof William Johnson, Carnegie-Mellon Univers-ity, Ctr for Materials Science and Engineering Colloquium, 12:15pm, Rm 9-150. Lunch provided, 12nd

Possible Causes and Solutions of the High Deborah Number Problem in Viscoelastic Fluid Flow Calculations** - Robert C. King, Chemical Engineering Seminar, 2pm, Rm 66-110.

Hollow Fibers as Substitutes for Packed Towers** - Prof Edward L. Cussler, Dept of Chemical Engineering, Univer-sity of Minnesota, Chemical Engineering Seminar, 3pm, Rm 66-110.

Trapped Particle Instability Studies in the Columbia Linear Machine* - Dr. Amiya Sen, Columbia University, Plasma Fusion Center Seminar, 4pm, Rm NW17-218.

Readings

Poetry Reading* - Stephen Rodefer, curator, Archive of New Poetry, University of San Diego; teacher, Literature Dept, MIT Writing Program reading from his recent books: Plane Debris, and Four Lectures (winner, 1983 Annual Book Award of the American Poetry Center), March 20, 8-10pm, Rm 4-270.



A "Savoy" vase of amber mold-blown glass is one of the items in the Hayden Gallery exhibit, "Alvar Aalto: Furni-ture and Glass." The vase comes from the Karhula Glass Museum of Finland. The exhibit, which also includes a number of Aalto's drawings, continues through April 12.

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

Alcohol Support Group** - Meetings every Wednesday, 7:30-9am, sponsored by MIT Social Work Service. For info call Ann, x3-4911.

Narcotics Anonymous^o - Meetings at MIT, every Mon, 1-2pm, Rm E23-364 (MIT Medical Dept). Call 569-8792.

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.

Club** - The Club is open Mon-Fri. Lun

Bring sack lunch, projects, swap ideas. Coffee & tea served. Meeting dates: March 12, 26, April 9, 23, May 14, 28. For more info, call Lillian Alberty (491-3689), Nancy Whitman (x3-6040) or Beth Harling (749-4055).

Alumni Activities

The Puzzling Issues Raised by the Strategic Defense In-itiative (Star Wars)** - Prof Jack Ruina, MIT Ctr for Inter-national Studies, MIT Club of Boston luncheon and talk, March 20, 11:45am, MIT Faculty Club. Cost: \$12/Club members. March 20, 11:45am, MIT Faculty Club. Cost: \$12/Club members & guests; \$15/non-members. Reservations: call x3-2000 before March 18

MIT Activities Committee

MITAC, the MIT Activities Committee offers discount movie Theaters (\$3 ea). Tickets are good 7 days a week, any

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, diming, 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, choreographed by Boston Ballet's new Artistic Director Bruce Marks. Tickets: \$21.50 (reg \$23.50) available in Rm 20A-023.

Little Shop of Horrors. Thurs, April 10, 8pm, Charles Playhouse. The place: a skid row flower shop. The main character: a man-eating plant named "Audrey II" and the young man who takes care of it and other assorted greenery. The plot: bizarre. The spoof: a satire on horror movies. Don't miss this zany triple award-winning musical. Tickets: \$16 (reg \$19.50), 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 wedding, 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.

Montreal Weekend. Sat-Mon, April 19-21. Transportation, room and me. That's it, and nothing more. You're on your own from and me. Instrin, and noting more not sold on your only the for 3 days and 2 nights. Accomodations at the fabulous Le Sher-bourg Hotel. Depart from West Garage, Sat, April 19, 7am, return Mon, April 20, 6pm. Real cheap. \$75/pp/dbl occupancy only. Limit two tickets/pp – MIT card required to purchase tickets. Make your reservations now in Rm 20A-023.

Juilliard String Quartet. 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.

White Water Rafting Weekend. Fri-Sun, June 20-22. Spend 2 days rafting and camping on the Rouge River, 81 miles north of Montreal in the Laurentian Mts. Price includes round trip Montreal in the Laurentian Mcs. Price includes found entry transportation, campeike, 2 days of rafting, 2 full breakfasts, 2 barbeque dinners, and 2 high-energy snacks on the river. All for the river-bottom price of \$128/pp. Leave MIT, Fri, June 20, 12:30pm; return Mon, June 23, 12am. Important: In order to get this great deal we must have all reservations by April 18. Make reservations 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, 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).

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

New! The Greater Boston '86 Books are here! 2-volume New! The Greater Boston 36 Books are nerel 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 reservations 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 Program/Wellesley-MIT Exchange Program lunch table, every Tues, 1-2pm, Student Ctr Center Lounge. Bring bag lunch; all levels of Japanese welcon

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.

The Aspartame Story** - Prof Richard J. Wurtman. Clinical Research Center, Center for Technology, Policy and Industrial Development/Whitaker College of Health Sciences, Technology and Management Program in Health Policy Seminar, 4pm, Rm E25-401. Refreshments served, 3:30pm.

Status of Superstring Theories** - Prof Edward Witten, Princeton University, Physics Colloquium, 4pm, Rm 10-250. Refreshments served, 3:30pm, Rm 10-250 lobby.

Fiber Optics vs Satellites* – Anthony Rutkowski, Federal Communications Commission; Jack M. Sipress, AT&T Bell Laboratories; Walter R. Hinchman, INTELSAT, MIT Com munications Forum Seminar, 4-6pm, Bartos Theatre, Rm E15-070.

Remittances and Inequality* - Oded Stark, Harvard University; J. Edward Taylor, Urban Institute, Harvard-MIT Research Seminar on Migration and Development, 4-6pm, Har-vard Ctr for Population Studies, 9 Bow St. Prof Myron Weiner, MIT and Prof Stark co-chairmen

Measurements of Intracellular Calcium in Lymphocytes* Nancy Allbritton, doctoral candidate, medical engineering/medical physics, Harvard-MIT Division of Health Sciences and Technology Seminar, 4:10-5pm, Rm E25-117.

What to do about Common Writing Problems** - Writing and Communication Center ESL Writing American English Workshop, 4:15pm, Rm 14N-317.

Shaping the Information Age: Technology and Values** - Charles L. Brown, chairman of the board, AT&T, Sloan School of Management Distinguished Speakers Series, 4:30pm, Rm E51-329

Page 4, Tech Talk, March 12, 1986

An Experimental Study of Constitutive Relations of Transformation Plasticity in Zirconia-Containing Ceramics** - Patricio E. Reyes Morel, PhD candidate, Dept of Nuclear Engineering RST Seminar, 4pm, Rm 24-121. Refreshments served, 3:45pm.

Metals, Humates, and Oxides** - Dave Dzombak, MIT, Ralph M. Parsons Laboratory Aquatic Sciences Seminar, 4pm, Rm 48-316

Evolution of an Image Maker** - Ed Emshwiller, dean, Dept of Film and Video, California Institute of the Arts, Arts and Media Technology Forum, 4:30pm, Bldg E15 Bartos Theatre.

Thursday, March 20

Theoretical Study of Polymer Failure* - Dr. Yves Termonia, Central Research and Development, DuPont, Pro-gram in Polymer Science and Technology Polymer Seminar, 11-12noon, Rm 66-360. Refreshments served, 10:30am.

Indians and Sandinistas* - Prof Martin Diskin, MIT Dept of Anthropology/Archaeology, Anthro/Archaeolgoy Work-In-Progress Seminar, 12noon, Rm 20B-136.

ong Term Petroleum Price Prospects** - Prof Morris A. Adelman, MIT Dept of Economics and Ctr for Energy Policy Research, Center for Energy Policy Research Energy Laboratory Seminar, 12-2pm, Rm E40-496. Bag lunches welcome.

Your Leadership Role: Leadership Style; Communication Skills** - Barbara Chuck, staff associate, Campus Ac-tivities Office, MIT Leadership Education and Development (LEAD) Program exploring the skills needed by effective leaders, 3pm, Student Ctr Center Lounge, or 6:30pm, Rm 10-280.

noon-2pm; dinner hours: 5:30-8pm. For dinner and hours: 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.

MIT/VAXSyM** - MIT VAX system manager's group meeting, first meeting, March 17, 2-4pm, Rm E25-401. Focus on hardware/software/facilities mgt for VMS and other operating systems.

Wives' Group** - Morning Group: March 12, Trip to Museum of Science; info – Mireille Chabaud, 776-7533. March 19, Museums on Brattle Street inc Longfellow House, Brattle & Hopper Lee Nichols House; info - Haruyo Sakuma, 494-5492 or Gerda Van Thieler, 923-0616. Meet at 9:15am, Eastgate. Children welcome. Afternoon Group: March 12, Understand Opposing Views on Abortion – Prof Judith W. Decew, MIT Literature Faculty. March 19, Emily Dickinson: An American Poet – Prof Cynthia Griffin Wolff, MIT Literature faculty. 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

ored by the The Language Conversation Exchange • - spons Wives' Group, seeks persons interested in practicing languages with a partner. Many international students and spouses wish a 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.

Movies

The Sea Hawk** - LSC Classic Movie, March 14, 7:30pm, Rm. 0-250. \$1/MIT-Wellesley ID.

Trading Places** - LSC Movie, March 14, 7&10, Rm 26-100. \$1/MITWellesley ID.

A View to a Kill** - LSC Movie, March 15, 7&10, Kresge Auditorium. \$1/MITWellesley ID.

cho** - LSC Movie, March 16, 6:30&9:30, Rm 26-100. \$1/MIT-Wellesley ID.

The Great Escape** - LSC Movie, March 21, 8pm, Kresge Auditorium. \$1/MITWellesley ID.

Butch Cassidy and the Sundance Kid** - LSC Movie, March 22, 7&10, Rm 26-100. \$1/MITWellesley ID.

A Funny Thing Happened on the Way to the Forum** -LSC Movie, March 23, 6:30&9pm, Rm 26-100. \$1/MITWellesley ID

Music

Noon Hour Chapel Series* - Alan Goldspiel of Connecticut, guitar, Thurs, March 13, 12:05pm, MIT Chapel. Free.

MIT Concert and Festival Jazz Bands* - Everett Longstreth, director, with guest bands, Fri, March 14, 8pm, Kresge Auditorium. Admission \$1.

Piano Concert** - Emily Corbato, International Students Program/MIT Women's League concert of Mussorgsky (Pictures at an Exhibition), Roy Harris, Ginastera and Villa Lobos, Sun, March 16, 3pm, Kresge Little Theatre

MIT Affiliated Artist Series* - Sheila Waxman, piano, Sun, ch 16, 8pm, Kresge Auditorium. Free.

MIT Chamber Chorus* - John Oliver, director, Wed, March 19, 8pm, Kresge Auditorium. Free

Noon Hour Chapel Series* - Boston Viol Consort, Thurs, March 20, 12:05pm, MIT Chapel. Free.

MIT Affiliated Artist Series* - Paul Orgel, piano, Thurs, March 20, 8:30pm, Kresge Little Theatre. Free.

MIT Gospel Choir** - Meets every Sat, 11am. Welcomes members, visitors – if you feel shy about singing, we need help with lighting, audio, design & arrangements for the spring con-cert scheduled April 11. Rehearsals: March 22 – Student Ctr Rm 491; March 29 – Student Ctr Center Lounge; April 5 – Stu-dent Ctr 491; April 12 & 19 – Student Ctr Center Lounge; April 26 – Student Ctr Rm 491; May 3 – Student Ctr Rm 491. Info: x5-8645 dorm, x5-7531 dorm, or x5-6312 dorm.

Chinese Intercollegiate Choral Society* - Meets Suns, 5-5pm, Rm W20-491. Currently rehearsing Chinese folk songs. Free voice lessons and music theory class, 1pm.

Theater

An Evening of One__Act Plays* - MIT Dramashop student-directed plays, March 13-15, Spm, Kreage Little Theatre. Free. Critique and coffee hour follow performances.

Dance

Tenth Annual Israel Folk Dance Festival[®] - Hillel Present-ation, Sun, March 16, 3pm, Kresge Auditorium. Tickets available at Hillel: \$4, \$6, \$7.

MIT Ballroom Dance Club Workshops⁶ – March 16: Begin-ning Swing, 12:30-1pm; Intermediate Waltz, 1:30-2:30pm; Ad-vanced Rumba, 4-5pm. March 23: Beginning Foxtrot, 12:30-1pm; Intermediate Swing, 1:30-2:30pm; Advanced Waltz, 4-5pm. All classes at Student Ctr Sala de Puerto Rico. Admis-sion: Beginning – \$25/members, \$50/non-members; In-termediate – \$.50/members, \$1/non-members; Advanced – \$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 TClub 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, in-structor, 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 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 Center Jerome & Laya Wiesner Building **20 Ames Street**

Havden 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 integra tion 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. Exhibition 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 years, March 21 through July 31. A Continental Eye: The Art and Architecture 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. Three Photographers, photos by Linda Cuccurullo and Gordon Thomas (MIT Libraries staff), and Carolina Salguero (formerly of MIT Dept of Architecture), through April Minor White: Photographs, 102 prints dating from the 1930s to 1968, through March. Ongoing exhibits: Gjon Mili 27: A Tribute, Born in Rumania, world famous photographer Gjon Mili studied electrical engineering at MIT and pioneered



Actors Stephanie Taddy '88 and Ken Wenstrup '89, rehearsing for Mockingbird, one of four plays written by MIT students being presented in Kresge Little Theatre this weekend. -Photo by Frank Revi '86

Student-written plays to premiere

be presented in Kresge Little Theatre this weekend, ranging from a serious piece involving a newly-wed couple to an outrageous triangle-drama set in a young man's apartment.

Students and members of the community and the public are invited, Friday and Saturday, March 14 and 15, at 8pm. A critique and coffee hour will follow the performances.

Robert N. Scanlan, head of the MIT Drama Program, said this marks the second spring in which as many as four student plays have been ready for production.

Mockingbird by Julia White '87 was described by Dr. Scanlan as very serious in intent, about a young couple working hard to get their lives started in a garage apartment in Oklahoma. He said Ms. White has been working for some years to evolve the characters and settings.

Four student-written plays on one bill will Altshuler '86, Ingrid Olson, Wellesley '87, and Patti Zeitler '88, with David Watson '88 as stage manager.

Social Security by Kevin Cunningham '83 is a very short spoof of melodramatic conventions, set in the theatre somewhere between the 19th and 20th century. It is directed by Tom Darci '87, played by Pratima Rangarajan '89 and Brian Linden '88, and stage managed by Mr. Pezaris.

Assistance and guidance for the student productions comes from the Drama Program's professional staff, led by Dr. Scanlan and including technical assistants Edward S. Darna, William A. Fregosi and Margaret S. Hall, supported by Jeanette Mitrano, administrative assistant.

Neurolinguistics grant

in the use of electronic flash and multiple exposure photographs. In 1938 he began doing stories for Life magazine. Of Aerostatic Machines: Early Ballooning in France and Britain, Prints from MITS Vail Collection illustrate the development of balloon-ing as a science and sport including fanciful inventions for steering balloons, and aerial views of Paris and other cities. Light ing balloons, and aerial views of Paris and other cities. Lagu Sculptures by Bill Parker '74, A synthesis of scientific knowl-edge and artistic composition gives expression to these changeable, touchable plasma sculptures. 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 navel architecture at MIT. MIT Seagram – A writer of MIT accent research: Collection of Ship Models A review of MIT ocean research; Collection of Ship Models
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 sichards. Women at MIT. An overview of the admission of romen 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 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.

People of Monhegan – through March. Architecture & Plan-ning Computer Resource Laboratory sequential exhibit of photographs by S. Leland Smith, teacher of filmmaking and photographic darkroom skills at the MIT Student Art Associa-tion. Hours: M-F, 9am-5pm, Rm 9-514.

Jerome B. Wiesner Student Art Gallery – for 1986 scheduling, 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

HOME EVENTS: March 18: M's Volleyball vs Wentworth, 7pm

Wellesley Events

Jewett Arts Center[®] - African Art of the Dogon, Selections from the Hans Gugenheim Collection symbolizing the com-plementary duality of natural and social order in Dogon culture,

A Poetic Apprenticeship: Clayton Eshelmann's Work on the Poetry of Cesar Vallejo* - Clayton Eshelmann, poet, translator and editor, March 12, 4pm, Slater.

Right Action and Relationships[®] - Larry Blum, associate professor, philosophy, University of Massachusetts-Boston, March 12, 4:15pm, Library Lecture Rm.

Women in Education* - Ctr for Women's Careers Women in Action: The Realities of Working Series, March 12, 7-9pm, Library Lecture Rm. Cost: \$5/those with no College affiliation.

The Historical Resonance of Issues in Contemporary China; Ku Yen Wu's Response to "The Demise of Human Society"* – Thomas Darlett, Princeton University, Chinese Dept lecture, March 13, 7:30pm, Pendelton Est Rm 6

Mis-Remembering Richardon: Gender, Language, and Class Formation in 19th Century America[®] – Prof Carroll Smith Rosenberg, University of Pennsylvania, Women's Studies Program/American Studies Program/Depts of English, History and Education Lecture, March 13, 7:30pm, Pendelton History and H West Rm 105.

The Fifth of July[#] - Wellesley College Theatre production, March 14-16, 8pm, Alumnae Hall. Tickets \$5; \$3/Wellesley per-sonnel; free/Wellesley-MIT students w/ID.

Contemporary Arts: An Expanding View^{*} – Helen W. Drutt English, coordinator, Applied Arts Program, Art Break, March 17, 12:30pm & 4:15pm, Jewett Main Gallery.

Boston Museum Trio* - music of Monteverdi, Scarlatti, J.S. Bach and Marais, March 18, 8pm, Jewett Auditoriu

Women's Non-Traditional Careers; A Non-traditional Examination^{*} - Lilli S. Hornig, visiting research scholar, Ctr for Research on Women Luncheon Seminar, March 20, 12:30-1:30pm. Bring a bag lunch; coffee provided.

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

Send notices for Wednesday, March 19 through Sunday, April 6, to Calendar Editor Rm 5-111, before noon, Friday, March 14.

ART to present new Earls work

The world premiere of a major work by Paul Earls, research fellow at MIT's Center for Advanced Visual Studies (CAVS), will be presented by the American Repertory Theatre Monday, March 17, at 7 and 9pm, in the Loeb

is another in Mr. Earls' series of works for various media on the topic of the creation,

The Boston Musica Viva, a seven-member chamber ensemble directed by Richard Pittman, will perform this and another premiere, Journeys of Remembrance by Joyce Mekeel, also of the Boston area. These performances are part of ART's special "A.R.T. Mondays," a series designed to complement the theatre's

honored in Canada

The Canadian Book Information Centre has named Australian author Janette Turner Hospital, a visiting writer-in-residence with the MIT Writing Program, one of Canada's 10 best young fiction writers.

Judges Margaret Atwood, Robert Enright and Beth Appeldoorn read books by nearly 60 young writers before making their decision. Other winners in the "45 Below" competition include Matt Cohen, Bharati Mukerjee and Guy Vanderhage. The list was developed to draw attention to the quantity and quality of fiction being produced in Canada.

A resident of Canada since 1971. Ms. Hospital is an internationally respected novelist, critic and short story writer. Her novels include The Tiger and the Pit and The Ivory Swing, which won Canada's \$50,000 Seal Award in 1982.

Her most recent novel, Borderline, which appeared this this fall in Australia, Canada, ngland and the United States. praised as "brilliant" by San Francisco Chronicle, and hailed as "...a compelling attempt to go beyond the safe borderlines within which much current fiction resides" by the New York Times Book Review. At various times during her career, Ms. Hospital has lived in Australia, Canada, India and the United States. "I feel like a piece of global flotsam," joked Ms. Hospital, who commutes to her family home in Kingston, Ontario, every three weeks. "It's one of those odd years—I wrote a book called Borderline about going back and forth across the border and I never dreamed I'd be doing just that.

Augenmusik continues Mr. Earls' 20-year exploration in the presentation of live music and lasers, using the laser as a medium for seeing the acoustical content of individual notes, and to project images modulated in size and polarity by the music being played.

In his new work sounds picked up by microphones will animate lasers being beamed from the back of the theatre. This will allow the audience to see multicolored laser-generated images, abstract and figurative, varying from 12- to 20-feet in height, hovering over the seven musicians in counterpoint to their music. In addition, the lasers will, at times, create a multicolored image of musical notation: notes that the musicians then will play.

The artist attracted national attention in June 1984 when his sky opera Icarus, in col-laboration with CAVS director Otto Piene and other artists, was presented in Kresge Auditorium, with music on that occasion also performed by The Boston Musica Viva. Among others, favorable reviews came from The New Yorker's Andrew Porter.

Tickets are \$14, 11, and 7; half-price for students and seniors.

Corbato concert

Pianist Emily Corbato will be presented in a concert in Kresge Little Theatre Sunday, March 16, at 3pm. Members of the community and the public are invited without charge.

The program will be as follows: Pictures At An Exhibition, Mussorgsky; Piano Sonata Op. 1, Roy Harris; Tres Piezas, Alberto Ginastera; and Ciclo Brasiliero by Heitor Villa-Lobos.

Ms. Corbato's interpretation of the

Drama Center. Augenmusik for lasers and music ensemble drawing upon Genesis and other sources.

standard programming. Janette Hospital

through March 23. Nic Nicosia: Recent Photographs, In-cludes selections from his most recent series, *The Cast*, through March 23. Clay, Paper, Fabric and Glass Workshop Experiments, Examination of selected works produced in contem-porary workshops by leading artists, through March 23. Contemporary Arts: An Expanding View, Selected works by contemporary artists which transcend the historical concept of craft, through March 23. Contemporary Prints from the Per-manent Collection, continuing.

This play is directed by Anna Lisa Fear '86. Actors are Matt McCarty '89, Stephanie Taddy '88 and Ken Wenstrup '89. Stage manager is Robert Gates '89.

In contrast to Mockingbird the other three one-acters are at various points on the lighthearted spectrum, all in contemporary time. Movin' In, based on the eternal triangle, involves three young men and a woman, all in their 20's, all workers for Peabody's Supermarket. In a rare collaborative feat the play was written and directed by five people who, except for one, also appear as the characters.

Writer/directors are: MIT seniors Wayne Heller, Dottie Dartland, Kerry O'Neill and Greg Greeley. Writer/stage manager is John Pezaris, sponsored research technical staff in the Laboratory for Computer Science.

Mr. Heller has written four previous plays during his MIT years.

This annual student play event provided a great occasion to poll students both in Dramashop and in the Shakespeare Ensemble to see who was writing plays, Dr. Scanlan said. That survey resulted in Death in the Family by Andrew Borthwick-Leslie '86, a member of the Ensemble. Set in a funeral parlor, it is directed by Julie Theriot '86, played by David

The James S. McDonnell Foundation has awarded \$1,750,000 to the MGH Institute of Health Professions to conduct a program of research in neurolinguistics at Massachusetts General Hospital. This six-year grant will allow the Neurolinguistics Laboratory, established in 1984, to embark on an ambitious program of basic research on the brain mechanisms and processes responsible for speech and language communication.

The Neurolinguistics Laboratory is directed by John L. Locke, research affiliate in the Research Laboratory of Electronics at MIT. The Laboratory is located at the Massachusetts General Hospital, and is operated by its own research staff in collaboration with clinical investigators at the Hospital and scientists at other institutions in the area, chiefly MIT and Harvard.

The McDonnell award will make possible the employment of several senior scientists who will explore basic questions about how the brain develops and performs the functions which occur in language communication. Working closely with the Neurology Service at MGH, the Laboratory also expects to learn more about neurolinguistic pathologies such as aphasia, and to develop a better under-standing of the neurological and cognitive bases of dyslexia and writing disorders.

Osmium quintet to play

A quintet which has named itself after osmium, the heaviest metal known on earth, will present a free concert Monday, March 17, at 8:30pm in Kresge Auditorium. Despite its name, the Osmium Wind Quintet

is billing the concert as "definitely NOT heavy metal," but rather works of Beethoven, Carter, Hindemith and Poulenc.

Members are: Cynthia Wooley, flute; graduate students David Lea, oboe, and Robert J. Hall, clarinet; Carlene Ruesenberg, bassoon, senior secretary in the Planning Office; and Martha McQuaid, horn.

Harris sonata has been recorded by Orion Master Recordings and will be released this spring. The record also includes Harris' American Ballads, Arthur Foote's Suite in D minor, Op. 15 and Ernst Bacon's The Lobo Girl of Devil's River.

When she premiered the Bacon piece, a New York Times reviewer said it was "virtually a tone poem. In a dissonant Ivesian vein it had a primitivelike power."

The pianist maintains an extensive concert career and has established herself as an exponent of piano music of North and South America. She is married to Fernando J. Corbató, professor of computer science and engineering and associate head of the Department of **Electrical Engineering and Computer** Science.

There will be a reception following the concert in the Mezzanine Lounge of the Student Center.

The concert and reception are sponsored by Dean and Mrs. Eugene R. Chamberlain and the MIT Women's League. Mr. Chamberlain is Associate Dean for Student Affairs and International Students Advisor.

Tech Talk, March 12, 1986, Page 5



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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. Per-sons 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 publicatio

For Sale

Singr sewng mach, prtbl, practcly offrs sevrl stitchs, carryng case, \$100. John, x3-4846 or 861-1275 aftr 6pm.

Tckt, ART prodctn of Euripides' Alcestis, adaptd & dirctd by Robert Wilson, Loeb Theatre, 3/16 matinee, Row M ctr, \$15. Eileen, x3-1782.

Bass guitr, Guild SB202, red, v gd cond, w/hrd case, list \$730 whn nw, sell for \$250. Alfred, x5-6287 dorm.

Boat: 23' Seaway, '83, cuddy cabin, full-hse, 42 gal fuel, 115hp, evin, O/B, 160 hrs, VHF, dpth soundr, \$16,500. Barbara King, x3-2531 9am-1pm

Whirlpool Imperial gas dryr w/gas hookup, hrdwr, 3 cycl, 5 temps, avocado, oldr mdl LA17881, w/drum lght, exc cond, \$125. Call 862-1163.

Upr piano, \$500. Teri, x3-3087 M-W or 729-3388 Th-Sun & eves.

Phillips M's bike, \$30 or bst. Michael,

14 c.f. Kenmore fridge, frstfree, hrvst gld colr, 41/2 yrs old, exc cond, avlbl 3/28, \$200. Heather, x3-0801 or 861-1531.

Singer & Westinghouse sewng machs, \$150 & \$85, bth w/tbls; radios, \$5 & \$10; IBM typwrtr, old office mdl, exc cond, \$50; artz htr, \$18; tbl, \$18; easy chr, \$18; bird cage, \$12; 2 stereos w/spkrs & AM/FM, \$45 & \$65; lrg pictr frms, cheap; 2 attache cases, \$12 & \$30; GE tstr ovn, \$15; plnt lmp, \$5; elec foot bath, \$10; Schwinn L's bike, usd v lttl, \$75. Call x3-3175 or 332-8251.

Pr Koss CM-530 2-way spkrs, 15-75 watts pwr handlng, inc spkr wire & bxes, orig \$210, askg \$120. Andy, x5-6458 dorm, or mssg at x3-2871.

Sears 12 c.f. frzr, nds rechargng, \$75. Call x3-7129

Sci fi: Perry Rhodan, Amercn eds of Ger man series, #1-110, exc cond, \$25 or bst. Tim, x3-1815.

57" classc 16' Thompson Lapstrake runabout, fully restrd w/nw canvas, 40hp, elec start mtr, '83 tilt trailr, mny xtras, \$2,000. Vicky, x3-4198 or 878-2459 eves.

Cmptr trmnl w/modm, bst offr. Call x3-8293.

Q-sz wtrbed cmplt w/hdbrd, mttrss, standup linr & htr, \$225; lrg wden drftng tbl, \$25. V.K. Burtch, x4808 Linc or 648-4319 eves

Parts for Honda Civic: mtr, trans, drs, trs, mny othrs. Inna, x3-1660 or 933-6422 aftr

TRS80 mdl 1, lvl II, sys in exc cond, well maint, 2 dsk drvs, expansn intrfc, Okidata prntr, inc misc sftwr, \$850. Tony, x3894 Linc or 893-3377 eves.

Camra: SLR Mamiya/Sekor, 1/1000, w/2 lenses (55mm, f/1.4 and 135mm, f/3.5), nds rpr, \$30 or bst. Jeff, x3-1562.

Nikon 200mm f/4 w/L37, UV filtr, pretclly br nw, \$180. Craig, 3-7787. DEC PRO350, 512Kb, 10Mb HD, LA50

prntr, 1200baud, modm, P/OS, V2.0, prose plus, Tod kit, Fortran compilr, Basic compilr, PRO-comm Datatrieve & mch more misc sftwr, xtra floppies, 7 mo DEC warr, askg \$3,950. Jose, x3-6894 or 893-4165

Micronta digital multimetr, ranges to 100VDC, 500VAC, 200mc DC, 2 megohms, like nw, \$35; Realistic CTR-80 audio-digit1 rdr, prtbl, like nw, \$25. Martha,

Mtrcycl trvl trnk by KG Industries, blck w/lck & all mntng hrdwr, fits mst racks, \$40. Paul, x3-6908 or 321-4654.

Vehicles

71 Volvo 144, cute but aged, nds attntn & wrk, \$200. Laura, x3-2864 or Bob, 731-8830 eves.

'74 Ford Mustang, 4 cyl, 100K, trs/batt/radio gd cond, relbl trnsprtn, \$500 or bst. Carol, x3-0551.

'74 Mercedes 450SE, fully eqppd, \$8,000. Tom, x4212 Linc or 245-9187 eves

'74 Pontiac LeMans, AM/FM, snw trs, trans, int exc, ext rst, \$600. Bill, x3-1416 or 484-1459 eves.

'75 VW Bug, exc cond, 62K, snw trs & bike rcks inc, \$1,900. Jane, x3-2290 or 277-8986 eves.

'76 Datsun 710, 60K, 5-spd, some rst, rns well, rblt carb & dist, nw trs & exh sys, \$450 or bst. Bob, x3-6533, 10-12noon, or 3:30-5:30pm.

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

'76 Pacer, 1 ownr, Ziebart rst-free bdy, ps, \$950. Tom, x3-5285.

'77 Ford LTD II, exc cond, lo mi, 70K, real lux for only \$800. Sungsil, x3-8941.

'77 Chevy Caprice Estate wgn, 350 V8, 70K, ps, pb, a/c, rfrck, exc cond, \$1,950. Call 527-7292 7:30-10:30pm.

'77 Ford Granada, 2-dr, 73K, 6 cyl, auto trans, ps, AM/FM, gd mech & ext cond, \$1,150 or bst. Jim, x3886 Linc.

78 Plymouth Volare, 2-dr cpe, only 62K, 6 cyl, AM/FM, auto, exc cond, \$1,200. Kimio, x3-1868.

'78 Plymouth Arrow, eng ceased up, all othr prts rsnbl to grt shape, price nego. Call x3-3050.

'79 Buick Regal, silvr, vnvl rf, V6, pwr opts, a/c, 100K, stereo, gargd, 1 ownr, \$2,500. Dee, x3-6841 or 335-7263 eves.

'79 Toyota Celica GT lftbck, 81K, 2.0 litr, 5-spd, AM/FM/cass, Rusty Jones, rear defog, rear wipr, \$2,400. Michael, x3-8005 or 641-4465.

'79 Honda Accord htchbck, carefly maint, mny nw prts, eng rblt by Honda 70K, \$2,500. Call 576-3705.

'80 Buick Regal Ltd, a/c, cruise, tilt whl Chapman lck, nw exh sys, 64K, \$3,500. Paul, x3-7903 or 628-1878 aftr 5pm.

'80 Audi 4000S, exc cond, 4-dr, auto, 5 cyl, wh w/bl int, pb, ps, sun/moonrf, a/c, AM/FM/cass, rear def, pwr dr, lcks & more, 63K, askg \$4,900. Call 326-6788.

'80 Ford Mustang, AM/FM, auto, 4 cyl, exc cond, \$2,500. Call 698-4457.

'80 VW Vanagon, 7 pass, sunrf, AM/FM, gd cond, \$3,700 or bst; '71 Mercedes 280S, nw eng, trs, shcks, brks, AM/FM, gd cond, \$4,200 or bst. Pam P. x3-1757.

'80 Chevy Monza htchbck, 4-spd, nw trs cltch & batt, exc cond, askg \$2,500. Patty, x3-7750 or 891-5934 eves.

'81 Mazda 626, 5-spd, 4-dr sdn, green, pwr sunrf, wndws & dr lcks, AM/FM, 99K, exc cond, \$3,500. Ron, x4513 Linc.

'82 Dodge Aries, auto, a/c, ps, pb, AM/FM stereo, \$3,150. Bill, x8-3460 Draper.

'84 BMW 318i, sunrf, a/c, auto, on-brd cmptr. mnt cond. \$12,900 or bst. Call x3-8105 or 438-3045 aftr 7pm.

'84 Nissan Sentra, 5-spd, Chapman lcks, sunrf, AM/FM/cass, rear dfrst, lo mi, \$5,000 or bst. Tracie, x8-2706 Draper.

'85 Mercury Topaz, loaded, like nw, 15K, 60K warr, \$8,700. Tom, x3-4978 or 749-6645 eves.

Housing

Newton, sgl fmly hse, 3BR, 2½b, eat-in ktchn, finshd bsmnt, garge & yrd, \$1,200/mo+ utils. Rita, x3-6337.

Quincy, 4BR, 1%b, lrg ktchn, LR, DR, compltly remdld, wlknlg distnc to Wollaston T sta, oil ht, 3 flrs, side x side duplx, no pets, \$850/mo. Call 643-9678 aftr 6pm.

Weston, fully furn hse, 20 min frm Boston, 3BR, 21/2b, nw ktchn, contemp nwly remodld int, prch ovrlooks conser vatn lnd, exc school sys & rec facilts, \$1,700/mo+ utils. Call 235-2955.

Brookline, cln 2BR apt, nr T, for fmly w/1 sm child, lrg LR, ktchn, brkfst rm, prkg, cmpltly furn & eqppd, \$800 inc ht & utils, no pets, avlbl 4/15. Call 734-4763.

Animals

Free bl M cat, approx 2 yrs old, v affctnate, spishes of wh on all paws, chst, bel-ly & chin, v cute, pref suburbn setting, usd to outdrs. Kim, x3-1740 or 242-0804 eves.

Found: v findly orange & wh M cat w/mu-tant paws, wearng flea collr, in Bldg 16 bsmnt. David, x3-6788 or 739-0863 for

Wanted

Apt exch, by vistng NYU prof, wife & med-sz hsebrkn terrier dog – Greenwich Village, hi-rise, furn, spacious 1BR w/ter-Village, hi-rise, furn, spacious 1BR w/ter-race approx 1/2 blck frm Wash Sq, \$618/mo for furn Cambridge area apt, 9/1/86-6/1/87. Mark/Roberta Baltin, 212-598-7534 or 212-254-1568 eves.

Apt/hse wntd, 8/1-12/31, for vistng Swiss post-doc w/spouse & 2 chldrn. Kurt Reimann, x3-6647.

Spanish-spkng F grad stdnt sks rm w/American fmly, nr pub trnsprtn. Call 247-3161.

Fit M/F volntrs, ages 40-70, for cntrls for 2 wk study on the effct of renal disea nutrition, \$400 paymnt. Call x3-6795, Rm 56-320.

To swap your hse/cottage on Martha's Vineyard for my London (Hammersmith) 3BR hse in lvly Somerset (south coast), for 5BR cottage, for 2-3 wks beginning 7/18/86, nd rm for my fmly of 4. Larry Susskind, x3-2026 or 1-485-0614.

Roommates

MIT-ownd apt nr Ctrl Sq, 15 min wlk to MIT, own BR, shr LR, bath, ktchn &



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 Person 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 con tinue to contact their Personnel Officers to apply for positions for which they feel they qualify.

	E 1.2, 2175 342 889
Ken Hewitt	3-4267
Dick Higham	3-4278
Virginia Bishop	3-1591
Appointments:	
Therese McConnell	3-4274
Oveta Perry	3-1594
Kenneth W. Chin	3-4269
Sally Hansen	3-4275
Appointments:	3-4268
Maureen Howard	3-4268
Kim Bonfiglioli	3-4076
Appointments:	17
Nancy Collins	3-4077

Administrative and Academic Staff

Supervisor of Mechanical Services, Physical Plant (third shift), to supervise all building operations tradesmen during the third shift operation. Will be responsible for the supervision of up to fifteen arly employe plementation of Institute policies as related to attendance, discipline, and safe-ty. Makes recommendations to the Manager of Mechanical Services for hiring urly personnel in approved vacancies Ability to evaluate situations that might develop during the shift and take appro priate action necessary. Three to five years of experience repairing and main taining building heating, ventilating and air-conditioning systems and three to five years experience as a mechanical super visor or equivalent required. High school diploma and technical school training in HVAC required. A86-692 Systems Programmer I, Sloan School of Management, to provide primary systems support at the Sloan School Computer Facility for the following small computer stems: Xerox workstations (25) running three operating systems (Star office auto mation system, Xerox Development Environment, and Interlisp-D) as well Xerox file, print, etc., servers; IBM RT PC's and AT&T 3B2's running versio Unix, and IBM PC XT's running PC DOS. Will also serve as small system urce to Sloan School and will provide olutions to individual problems in 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 enviror sential. BA or equivalent and at least one year of experience with one of the following operating systems: PC DOS, Unix, or Interlisp-D as well as programm ing experience in one or more high level baleny w/3M & 1F. \$165/mo inc ht. unfurn excpt clost, avlbl frm 3/20. Chun, 661-6405 aftr 11pm.

M to shr 4BR apt, 10 mins wlk to MIT, \$300/mo+ utils, Christn envrnmnt, mst rnt soon, so rnt nego. Vic, x3-6550 or David. 576-3795.

Carpool

Ride wntd from Onset (Robinwood area) Buzzard Bay to Draper Lab. Marie, x8-4541 Draper. Rd/carpool wntd, N Reading-MIT. Lyle,

x3-2127

Lost and Found

Lost: sm '86 Hallmark datebook, Mon 3/3, betwn MacGregor Hse & Westgate. Call x3-1469.

Miscellaneous

Typng on wrd pressr, any kind inc tech. Lynne, x3-4012.

Editng, wrd pressng, typng, 10 yrs MIT exp. Marie, x3-7309.

Thesis photogrphy, stdnt photog avlbl to do all types of photog. Ken Flowers,

x3-2980. Typng on IBM corr Sel II, or wrd pressng on Wang: theses, corrspndnc, proposls, books, resumes, tech paprs, free dsk storage, 17 yrs exp. Debbie, x3-3386.

Pro wrd prcssng, dissrtatns, manuscrpts, grant proposls, businss reprts, convenient to MIT, rsnbl rates, fst service, lttr qlty prntng. Susan, 494-1649.

Rcnt F college grad will babysit in your hm for the wkend, refs. Jeanne, x3-4603 or 391-4256 eves. Baby sittr avlbl, full/part time, in your

hm, refs. Call x3-6452 or 648-4146.

languages such as REXX, C, FORTRAN, PASCAL, or LISP required. A86-691

Director of the Master's Program Sloan School of Management, to direct the activities of the Sloan Master's Prodirect gram. Will participate in the making of policies relative to the curriculum, monitor program quality and develop remedial action as required, counsel pro spective and current students, register Master's students, direct the preparation of academic information about the Program, and participate in the evaluation of applications for admissions. Thorough understanding of Master's programs in management and ability to interact effec-tively with faculty and students and effectively represent school in written and oral communications essential. Particular in-terest in working with students and advocating their interests and concerns nec-essary. SM in Management or MBA reessary. SM in M quired. A86-690

Manager of Training, Information Services, to manage and coordinate training programs in computing provided by Infor-mation Systems to the MIT community and internal to Information Systems. Will consult with MIT departments to deter-mine computer training needs; administer and participate in developing and teaching seminars and short courses, or recommend use of outside agencies; and participate in developing training adver tisements. May implement comput-er-based or videotaped training. Bachelor's degree and extensive experience in using computers and developing and teaching courses and some supervisory experience is required. Some marketing experience is desirable. A86-688

Coordinator, Women's Studies Program, to direct the administrative opera-tion of the Program and coordinate the development of Women's Studies research and teaching resources. Duties will in-clude preparing the budget and authorizing personnel, materials, and services ex penditures; drafting funding requests for special projects; drafting publicity releases and program information; counsel ing students; maintaining files of Women's Studies curriculum development materials; and recording and implement-ing decisions of Women's Studies steering committee. Will also perform other administrative, financial, secretarial and clerical duties as necessary to support own or others' activities in the Program. Extensive experience in office administra-tion in a post-secondary education en-vironment, editing and production experience with printed office publications and organizing the publicity, administering and coordinating of multidisciplinary projects, special events, as well as curricula and drafting grant proposals desirable Sustained interest in women's issues and experience working with undergraduates needed. Knowledge of MIT preferable.

donors for significant gifts to the Institute. Will become acquainted with a isting alumni volunteers and recruit ad tional volunteers, involving them in all phases of the solicitation of gifts from alumni and non-alumni. Will work in support of senior leaders and volunteers for MIT; provide background information on prospective donors; evolve solicitation strategies; accompany volunteers on solicitation calls as necessary; and arrange for proposals, acknowledgements, campus visits and meetings related to development objectives. Bachelor's degree or higher, and three or more years experience in development work with individual donors for MIT or another institution are required. Must be poised and articulate, have the initiative and creativity to inspire and motivate volunteers, and be able to work alone and at a distance from MIT for extended periods of time. A86-682, A86-683 Postdoctoral Associate, Applied Bio-logical Sciences, to work on developing an enzymatic system for removing low dens-

stimulation of the auditory nerve in

animals. Requires a Ph.D. degree in a relevant discipline (i.e., Physiology, Psychology or Electrical Engineering and

Computer Science) and three to five years of postdoctoral experience. Strong back-

Technical Assistant, Applied Biological Sciences, to participate in a basic research program in microbial pathogenesis. The

primary responsibility of this individual will be to work with a senior investigator

on a research problem involving DNA

cloning and sequencing, protein secretion studies, and mutagenesis. The assistant will also be responsible for maintenance

of bacterial stocks, routine maintenance of equipment, and minor laboratory duties. A BA degree in biology or related field and a MA degree in biology or re-lated field is preferred. Laboratory expe-riance in molecular biology and/or senat

rience in molecular biology and/or genet-

Library Assistant III, MIT Libraries, Catalogue Department, Database Main-tenance Section, will input catalogue

records on the OCLC terminal from work forms prepared by cataloguers. Will edit

online contributed and Library of Con

gress catalogue records based on catalog-uer's written instructions; participate in maintenance of the Libraries database,

including holdings and heading changes and type charge cards and book pockets

Will also perform auxiliary aspects of

cataloguing based on cataloguer's written instructions, i.e., removal and correction

of cards in the Institute Libraries Cata

logue. Will type authority reference cards and files, and perform other auxiliary as-

signments as required. High school grad-uate or equivalent is necessary. Minimum of one year of direct/related experience re-

quired. Accurate typing and attention to detail essential. Experience using CRT terminal desirable. L86-266

Administrative Secretary, Office of the Dean for Student Affairs, will provide a variety of secretarial and administrative

support services. Will have considerable interaction with students, parents, facul-

ty and staff. Excellent secretarial, com

munication and organizational skills nec-essary; knowledge of word processors highly desirable. Ability to work both in-

dependently and as part of a team impor-tant. Position requires good judgment, pa-

tience, tact and understanding. The abil

ity to deal with confidential information

necessary. Thorough knowledge of MIT

desirable. Some overtime work may be

necessary. Minimum 4.5 years direct/re-lated experience required. NON-SMOKING OFFICE B86-193

Sr. Secretary, Civil Engineering, to per-

form secretarial duties for one professor in Ralph M. Parsons Laboratory. Will use

MICOM word processor to generate corre

spondence, technical manuscripts, grant proposals and course material; make

travel arrangements; schedule appoint-

traver arrangements, schedule appoint ments; monitor research accounts; answer phone; process mail; and maintain files and reference room. Will perform other duties as required. Technical typing and word processing experience or willingness to learn required. Good organizational

skills, ability to work independently, and ability to prioritize work load important.

Minimum 2.5 years direct/related experi-ence required. B86-287

Sr. Secretary, Office of the Dean for Stu-

dent Affairs, to provide support to the Associate Dean and the Executive Officer

of the Undergraduate Academic Support Office. Will support the Undergraduate

Seminar Program and the Course Evalua-tion Process, help with the Freshman Ad-

vising Program and new student orienta

tion, and respond to questions from students, faculty, and staff. Will interact with MIT community, both in person and

over the phone. Familiarity with MIT helpful. Excellent interpersonal and orga-nizational skills essential. Experience

nizational skills essential. Experience with and/or willingness to learn word pro-cessing necessary. Minimum 2.5 years ex-perience required. NON-SMOKING OF-FICE B86-285

Sr. Secretary, Civil Engineering (part-

time, 20 hours/week), to provide secretari-al support for one faculty member. Will

type class notes, exams, technical reports and proposals on A. B. Dick Magna SL

word processing system; photocopy, and perform other general clerical/administra-tive duties. Efficient and accurate typing,

proofreading skills, and ability to manag

Secretary/Staff

Assistant

ics required. R86-921

Staff

Library Support

ground in speech is required as is some experience in auditory psychophysics R86-922

ity lipoprotein (LDL) for potential treat-ment of hypercholesterolemia. Must have PhD or MD degree and have experience in biochemistry or enzymology. C86-173

Sponsored Research

Program Manager, Sloan School of Management, responsible for the ongoing

management of \$1.4 million/year multi-

sponsored research program. Will initiate

and maintain contact with sponsors to

facilitate appropriate and continuing in-volvement with the program; will com-

municate sponsors' viewpoints to Re-search Director and Program Director, an-ticipating opportunities and problems

related to research efforts; will serve as a

resource to faculty with regard to ongoing research questions; will be responsible for

research questions; will be responsible for the articulation of the program to exter-nal constituencies; will assist the Director in the preparation of management brief-ings and will be responsible for all ad-ministrative management including bud-gets, steering committee agendas, etc. Solid anglutic abilities excellent interpre-

Solid analytic abilities, excellent interper

sonal and communication skills, and several years professional experience

either in the computer industry or in management consulting required. Some

project management experience highly

desirable. Sufficient knowledge of man-

agement information technology issues to permit effective communication with

sponsors at senior and middle manage-ment levels, and sufficient understanding of related academic disciplines to effec-

tively communicate between sponsors and faculty project directors essential. R86-928

Research Associate, Earth, At-mospheric, and Planetary Sciences, to

conduct independent research programs

on the characterization of seismic sources using teleseismic data and on the nature

of intraplate deformation and the tec-

tonics of plate margins. PhD in geo-physics required. Preference will be given

to applicants with experience in earth-quake source studies using body wave-form data and in the application of nu-

merical models of stress in the lithosphere

to test hypotheses for tectonic processes

Technical Assistant, Center for Cancer

Research (half-time), to prepare tissue culture and specialized media for group of four to five laboratories. Will prepare,

sterilize, and test solutions to specification

sterinze, and test solutions to specification with stringent quality control. BS in chemistry or biology required, previous laboratory experience preferred. Must be able to work independently. R86-920

Research Specialist, Chemistry, to

Research Specialist, Chemistry, to operate Chemistry Department Mass Spectrometers. Will run service operation for low and high resolution samples. Will also be responsible for routine upkeep of expendables for the instrument. Tech-

niques include GC/MS, FAB and CI. BS in Chemistry required, and experience

with analytical instrumentation pre-

Technical Assistant, Applied Biological

Sciences, to work on a project involving chemical and biochemical studies of en-

experiments. Project will be a combined effort between MIT and Boston's

Children's Hospital to test and develop an immobilized enzyme system to remove toxic substances from the blood of human

patients. Requires SB degree and prior research experience preferred. R86-925

Research Staff, Haystack Observatory,

to carry out processing of data collected

by Very Long Baseline radio telescope ar-rays on HP 1000 and Ridge 32C comput-

ers. Will operate and program computers

for analysis and export of results to ex-

zymes, and hematological and immune logical studies in whole blood and animal

Good interpersonal skills impor-

R86-926

in

ferred.

tant. R86-916

Staff

Tempwood mdl V wdsty \$275 w/hearth: Choey Lee #29 winches, \$500/pr; Dacron yacht braid, 3/8 + 1/2, 1/2 nylon 3 strand, \$.25/ft: wrkbnch w/10" vice, \$50. Chris. x8-5202 Whitehead or 567-2149 aftr 7pm.

Usd Hotpoint fridge, 24x28x63"; usd Caloric elec stv, bst offrs. Call x3-7786.

Kenmore frstlss ref/frzr, exc cond, \$270; 6 vnvl mini blinds, 29x64", nw, \$10 ea; W fig skts, boot sz 6½, nw, \$10. Call 577-9703.

Ceramc tbl lmp, bl/grey, signd by artst, nds shade, exc cond, \$15. Linda, x3-4579.

Ti59 prgrmmbl calcltr w/Program cards, library module, instrctns, \$125; SR56 programmbl calcltr w/chargng unt & instrctn book, \$35; some scarcely usd suits, sz 40. Jim, x3-8911 or 547-3590.

Harman/Kardon PM660 stereo, int am \$300; H/K CD391 cass dck, \$300; KEF Carlton III spkrs, \$350; Thorens TD166 signature cartrdg, \$250. Steve, x5-6644 dorm.

21' Lyman boat, 3/8 Chrysler marine eng, rns well & fst, biminy top & accessrs, \$2,500 or bst. Ron, x3-7847.

Page 6, Tech Talk, March 12, 1986

Revere, 3BR hse, garg, priv yrd, frplcd LR, dshwshr, disposl, 15 min to Camb, \$950 inc all utils. Call x3-7022 or 1-878-7769 woo/wkonde

Lux condo vactn rntl, wk of 4/26, harbon view, Newport, RI, sleeps 4, \$450. Call x3-5003 or 662-7068 eves/wkends.

Aruba, nw pnthse rntl frm \$280/prsn, avlbl 5/3-5/10 & 11/8-11/15. Jack B. x8-4562 Draper or 625-3139 aftr 6pm.

Nashua, NH condo, Exit 7W, grdn-styl, 2BR dlx, on 3rd flr ovrlookng wds in elevtrd bldg, approx 1370 s.f. inc fully applncd eat-in ktchn, xtra lrg L/DR 2-1/3b, 2 balcns, econmcl gas ht, cntrl a/c, wshr & dryr, 1-car detachd garg, pool & tennis court, only 8 mos old, \$93,900. Gary, x7043 Linc.

Belmont, 7 rm, 4BR, Englsh Colnl hse exc cond, finshd bsmnt w/playrm, stdy & wrkshp, quiet fmly nbrhd, wlkng dstnc Winnbrook school, shps, pub trnsprtn, \$279,000, princpls only. Call 489-0153.

Btfl 1BR apt in priv hm on Brattle St, 10 min wlk to Hrvd Sq, sep entrnc, wshr/dryr, avlbl 6/1-8/31, \$600/mo. Jeff, x3-0916 or 497.7303

Killington-Woodstock area, lux 3 lvl con do, sleeps 10, 3BR, 2½b, sauna & jacuzzi in unit, all applnes, x-entry skiing dr, priv dwnhill ski, indr swimmng pool, avlbl wk/wkend. Call x3-1660.

Wayland/Lincoln, lrg contemp hse, avlbl 6/1/86-1/31/87, \$1,600/mo. Call x3-6809 or 358-4698.

A86-687

Journals Advertising and Exhibits Manager, MIT Press Journals, to manage advertising campaigns for 11 scholarly journals in a variety of disciplines. Will plan and execute advertising solicitations (rate cards, media kits specific issue mailings), including writing copy and handling production and mailing. Will also maintain advertiser lists, oduce space ads, negotiate and fulfill exchange ad agreements, and handle invoicing for each issue. Some supervision of production and promotion assistants, designers, typesetters and printers will be required. Duties will also include planning journals' exhibit program; handling arrangements and logistics for 40 exhibits per year throughout the U.S. and abroad. ncluding booth and accessories reserva tions; preparing arrangements with com bined exhibit services; preparing and mailing of materials and manning the booth. College degree required; second language preferred; liberal arts degree preferred. Three years in advertising field, publishing magazines, books or als required. Must be skilled with word processor, be accurate typist, have good telephone skills, be willing to travel, and be well organized. Should be able to handle a variety of tasks, have budgeting experience, and adhere to deadlines. Must able to represent the Press at exhibits and professional meetings. A86-684

District Director, Resource Development/Leadership Gifts, will be concerned with the identification, qualification cultivation and solicitation of individual

rs in geophysical and a ical fields. Requires knowledge and interest in FORTRAN; operating systems on site include HP RTE-6VM and UNIX. BS degree in Computer Science or related field required and 2-5 years experience desirable. Will consider recent graduate it individual has had software and scientific computing experience in school. R86-924

Research Technical Staff, Francis Bitter National Magnet Laboratory, to operate a Low-field Magnetic Lab and maintain equipment. Will perform maintain equipment. Will perform measurements of the magnetic fields produced by the human brain, and digitally process the data. Brain measurements will be made of normal subjects and of epilepsy patients. (Must be available for occasional evening and weekend work when the lab is "electrically quiet.") Must have a BA degree in electrical engi-neering, bioengineering, or physics. Must also have electronics experience alogue) and some computer experie R86-923

Research Scientist, Research Labora tory of Electronics, to work under the direction of a faculty member and with the Speech and Auditory Physiology Groups. This is a new position and will be ased primarily at the Eaton Peabody Laboratory of the Mass. Eye and Ear Infirmary. Primary research activity will be to generate a physiologically realistic model of human speech processing and to test this model by conducting appropriate physiological and psychophysical experiments. Will also be some involvement in physiological experiments using electric detailed workloads and deadlines in a hectic situation with minimal supervision are essential. Word processing, technical typing, and knowledge of MIT adminis-tration procedures helpful. Minimum 2.5 years direct/related experience required. B86-283

Sr. Secretary-Technical, Chemistry, to provide support for one professor. type and proofread correspondence, technical manuscripts and grant proposals: answer telephones: arrange ap pointments and travel; monitor research accounts; and file. Excellent typing and proofreading skills, experience with dic-taphone, and word processing experience or willingness to learn required. Excellent interpersonal skills and ability to work well under pressure essential. Accounting experience and familiarity with MIT highly desirable. Minimum 2.5 years di rect/related experience required. B86-281

Sr. Secretary, Laboratory for Nuclear Science (part-time, 20-25 hours/week), to provide secretarial support to Laboratory Director, Associate Director, and Head-quarters secretarial staff. Will perform varied duties related to the administra-tion of the Laboratory: maintain office files, type correspondence, assist with in-ternal and external reports, set up meet ings, answer telephones, order supplies and perform other general office func-tions. Will also assist with processing per sonnel matters, visas, and travel ouchers. Excellent organizational, interpersonal, and secretarial skills neces sary. Knowledge of word processing (Mass11) or willingness to learn required. Knowledge of MIT personnel and payroll procedures desirable. Minimum 2.5 years experience required. NON-SMOKING OFFICE B86-280

Sr. Secretary, Sloan School of Manage ment (part-time, 25 hours/week), to provide secretarial support for two members of the Management Information Systems Group. Will type and proofread correspon-dence, course materials, and manuscripts; maintain calendar and schedule appoint ments; make travel arrangements answer phones; interact with students and outside visitors; process mail; monitor accounts, and order supplies. Must be accounts, and order supplies. Must be willing to assume responsibility and work under minimal supervision, handle con-fidential material, work under pressure and be responsible for accuracy of materi-als. Excellent typing and organizational skills required. Knowledge of technical typing, word processing, and IBM PC, or willingness to learn, desired. Knowledge willingness to learn, desired. Knowledge of MIT preferred. Minimum 2.5 years sec retarial experience required. NON-SMOKING OFFICE B86-276

Sr. Secretary, Urban Studies & Plann ing, will type correspondence, reports and manuscripts, and all class-related material. Will set up appointments for faculty and make travel arrangements; and will reproduce and distribute class handouts students. May be asked to help out in general departmental typing if so needed and the time is available. Will be as signed to three faculty members. Should have excellent typing abilities. Should have word processing experience and/or be willing to learn. Minimum 2.5 years direct/related experience required with prior secretarial experience preferred. NON-SMOKING OFFICE B86-267

Sr. Secretary, Materials Science and Engineering, to provide support to a senior faculty member by typing technical reports, manuscripts, correspondence, and tables and charts from handwritten text or dictaphone. Will also compile or dictaphone. Will also compile research information from a variety of library sources, schedule travel (domestic and in ternational), respond to reprint requests prepare a variety of classroom material, prepare a variety of classroom material, and monitor research accounts. Requires 2.5 years direct/related experience. Ex-cellent typing required. Familiarity with IBM PC helpful as well as with MIT pro-cedures. B86-234

Secretary/Receptionist, Office of the Dean for Student Affairs, in the Student Assistance Services Section of the Office of the e Dean for Student Affairs, to assist walk-in visitors to office; answer ques 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 cer tificates and letters for scholarship agen-cies. 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; as paring sign 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, adap-table, and enjoy working with people, especially students, in a very busy office. B86-268

Secretary, Mechanical Engineering, to provide secretarial support to the director of the Innovation Center. Will type and maintain correspondence, manuscripts proposals and reports; maintain files answer phones, and assist with general office coverage. Excellent secretarial and typing skills required. Ability to proof-read essential. Minimum of 1 year direct/ related experience required. B86-265

Technical Support Staff

Reactor Operator, Nuclear Reactor Laboratory, to serve as shift operator on MIT Research Reactor after passing N.R.C. Operator's Examination. Will be required to work day, evening and night shifts as needed on a rotating basis. Will also be required to work in areas contain ing radioactive material, and strict adherence to appropriate radiation protec-tion procedures will be required. Two years of technical college education or equivalent is required so that the person can readily learn the necessary physics. nuclear engineering and details of the MIT Reactor and its operation in order to pass the Operator's Licensing Examina-tion administered by the Nuclear Regula-tory Commission. Absolute reliability, even disposition, and ability to remain steady and calm during emergencies re-quired. A knowledge of electronic circuits would be helpful. Must be 18 years or older. T86-273

ance decisions concerning appropriateness of fundraising approaches. Will respond to requests for information from faculty and 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 will 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 educa-tion will count toward experience. Strong writing skills, organizational skills, and interpersonal skills necessary. Should have a thorough understanding of grammar and punctuation. Ability to analyze and correctly interpret information from files and reference books necessary. Should also have ability to meet deadlines, work with a group, get along well with others, and be able to supervise. Familiarity with computers and data es, or an interest in learning, helpful.

Sr. Office Assistant, Office of the Dean for Student Affairs, to work in Under graduate Academic Support section. Will help with the Freshman Advising Pro-gram and new student orientation; pro-duce a monthly Freshman Newsletter; respond to questions from students, facul-ty, and staff; and provide general secretarial support. This position is part of a busy undergraduate information and ad-vising center and involves a great deal of interaction with the MIT community, both in person and over the phone. Fam iliarity with MIT helpful. Excellent in terpersonal and organizational skills essential. Experience with and/or will-ingness to learn word processing necessary. Minimum 2.5 years experience re quired. S86-286 NON-SMOKING OFFICE

Sr. Office Assistant, Office of the Secretary of the Corporation, to report directly to the Assistant Secretary of the Corporation. Will be responsible for mailings to the Corporation; arranging meet-ings, hotel reservations, and travel ex-penses, and maintaining meetings and correspondence files, financial records, etc. Will work closely with the offices of the President and Chairman as well as with members of the Corporation. Excellent proofreading skills, organizational skills, and the ability to work independently and with others necessary. Experience with or willingness to learn DECmate II word processor required. MIT experience helpful. Minimum 2.5 years erience required. S86-284

Sr. Office Assistant, Foreign Language and Literatures Section, to staff the front offices of Section Headquarters and provide office support services to the faculty. Duties will include answering telephones, handling mail, providing xerox services, ordering supplies and maintaining office equipment, with additional responsibility for classroom and event scheduling, prosing of book orders, maintenance of of fice records and preparation of specialized mailings. Good typing, excellent organiza-tional skills, flexibility and attention to detail essential. 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 reguires maintenance of Development Office reference materials. Duties will in-clude composing written reports as needed, compiling information from print-outs and data base, and other related duties. Will respond to miscellaneous written and telephone requests from senior officers about corporations, foundations 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 ref-erence sources. In addition, will imple-ment mailings for reorder of reference materials and file new materials as received. High school graduate with a minimum of 2.5 years direct/related experience required. Post high school educa-tion 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 resourcefulness and an ability to manage time in order to meet deadlines as well as asant telephone manner and an abil ity to get along well with others. S86-270

Office Assistant, Medical Department, to perform various activities involved with health insurance in the MIT Health Plans Office. Will process applications and claims, input, modify, and verify in-formation on three on-line computerized data bases; and assist with special projects. Good typing skills and ability to or ganize a wide variety of tasks and handle

pentry work. Applicant shall be able to read prints and do layouts on all types of cabinets. Must be qualified to perform door and partition installation and to lay floor tiles. A thorough knowledge of work ing characteristics of various types of ma terials and woodworking machinery is required. H86-350

Audiovisual Operator B, Graphic Arts Service, to set up, operate and maintain all types of slide and motion picture ment, such as projectors, rewinders and splicing machines, etc. Clean, inspect and repair slides and films, and maintain department records of all equipment and films. Drive motor vehicle, deliver and pick up material and equipment, and per-form other related duties as assigned. Needs some instruction and supervision. Individual will be required to work over-time when applicable. A minimum of four years of applicable experience is required. Must have Massachusetts driver's license (unrestricted). H86-345

Medical Matron, Medical Department, to provide housekeeping support to as-signed area(s) in Medical Department. Duties will include the daily cleaning of all offices, examination rooms, secretarial and patient waiting areas, lavatories and small kitchen units in accordance with required hospital standards of clear liness and effective infection control. Will involve dusting and straightening; emptying waste receptacles and rubbish re-moval in accordance with strict detailed procedures; washing sinks, mirrors, etc.; and waxing desk tops when necessary. Will be responsible for stocking any nec-essary related supplies, and provide relief coverage for other Medical Department areas as required during sickness and vacation periods. Individual must be near in appearance and be a willing and efficient worker. Previous work experience desirable. Ability to work independently and relate well to Department staff neces-sary. Will work 40 hrs/week (3:00-11:00 or 4:00-12:00) H86-347

MIT/Wellesley Upward Bound Pro SUMMER TEACHING AND RESIDENTIAL POSITIONS. Math, English, Science, Social Studies and Study Skills teachers and teacher assistants and residential assistants needed for a seven (7) week college prep program for seventy (70) disadvantaged high school students. Must live at Wellesley College during the week. Salary range \$1200-\$1800 (based on rele-vant experience and position) plus room and board. For more information and an application, contact: MIT/Wellesley Up-ward Bound Program, 18 Vassar Street, Cambridge, Ma. 02139, 253-5124

The following positions were still available at Tech Talk deadline. Com-plete descriptions of all available posi-tions are posted in the Personnel Office (E19-239), and at locations listed at the beginning of Positions Available section.

ADMINISTRATIVE AND

- ACADEMIC STAFF:
- A86-676, Sr. Analyst Programmer, Administrative Systems
- A86-675. Assistant to the Department Head, Applied Biological Sciences A86-673, Editor/Production Manager,
- **Campus Information Services**
- A86-674, Senior Technical Writer, Infor mation Services
- A86-672, Supervisor, Mechanical Services, Physical Plant A86-671, Analyst Programmer II. Ad-
- A86-671, Analyst Frogrammer 1, Au-ministrative Systems A86-670, Associate Editor, Alumni Association (Technology Review) A86-655, Communications Officer, Media
- Laboratory A86-666, Technical Writer, Project
- Athena A86-662, Systems Programmer I, Infor
- mation Systems
- A86-653, Facilities Coordinator, Division of Comparative Medicine C86-171, Librarian I/II, MIT Libraries
- C85-170, Chief of Environmental Medicine A85-650, Medical Director and Depart-
- ment Head, Medical Department A85-527, Systems Programmer II, Infor-
- mation Systems 85-516, Assistant Manager, Maintenance, Housing and Food A85-516
- C85-169, Postdoctoral Associate, Applied
- **Biological Sciences** A85-647, Assistant Bursar/Information Systems, Bursar's Office
- A85-646, Assistant to the Bursar/Loan
- Collection, Bursar's Office A85-642, Assistant Bursar/Student Accounts, Bursar's Office
- C85-168, Librarian IV, Head, Engine ing Libraries, MIT Libraries C85-167, Librarian III, MIT Libraries-
- Preservation and Collections A85-638, Analyst Programmer I, Ad-85-638, Analyst ministrative Systems Librarian I, MIT Libr



Sloan School Dean Abraham J. Siegel, center, with award winners, from the left, Edward Stabler, Stephen Leichtman, Frances Wong and Alain Boutboul. -Photo by Russell Clark

Sloan honors students and alumni

Several Sloan School graduate students and alumni have received honors and awards. The school's two Alexander Proudfoot-

Howard J. Samuels Memorial Fellowships were presented to Stephen E. Leichtman and Edward A. Stabler. The awards are given annually to second-year master's program students who have demonstrated exceptional academic achievement and professional promise. The Alexander Proudfoot Company established them in 1979 to develop an awareness that productivity is a major concern for American industry. They are named for the company's founder and a former director.

Mr. Leichtman received a BS in economics in 1981 from the University of Pennsylvania's Wharton School, Mr. Stabler majored in economics at Harvard University, where he received a bachelor's degree in 1981.

The Henry Ford II Scholar for the 1985-86 academic year is Frances W. Wong, who graduated in 1983 from Stanford University. where she majored in industrial engineering. The Ford scholarships, established by the Ford Motor Company in 1978, are awarded

A85-512, Systems Programmer, Informa-

A85-500, Director of the News Office,

News Office C84-130, Postdoctoral Associate, Nutri-

C84-129, Postdoctoral Associate, Nutri-tion & Food Science

C84-128, Nurse Practitioner (pt), Medical

C84-126, Nurse Practitioner, Medical

R86-919, Research Specialist (Process

R86-917, Research Associate, Materials

Science and Engineering R86-914, Administrative Officer, Sloan

R86-912, Research Scientist, Research

R86-909, Research Engineer, Laboratory for Electromagnetic and Electronic

and Brain Science R86-893, System Manager, Center for

Cognitive Science R86-892, Technical Assistant, Laboratory

R86-887, Staff Engineer, Harvard-MIT

R86-890, Technical Staff, Physics

Laboratory of Electronics

School of Management/CCREMS

Laboratory of Electronics

Development), Electrical Engineering and Computer Sciences

tion Systems

Department

RESEARCH STAFF:

SPONSORED

tion & Food Science

each year to 16 outstanding students in graduate schools of management and engineering

The Henry B. Du Pont Scholarship, established at Sloan in 1976 by the Crestlea Foundation, Inc., with a gift from the late Mr. Du Pont, was awarded this year to Alain H. Boutboul. He majored in international business at the Ecole Superieure de Commerce de Paris, where he received a Diploma in 1982. The scholarship, like the others, honors a secondyear master's program student for exceptional achievement and promise.

The alumni co-winners of the Brooks Prize, established by E. Pennell Brooks, first dean of the Sloan School, to honor the author of the best master's thesis, are 1984-85 Sloan Fellows James G. Cosgrove and Ubiratan N. Guzzi. They coauthored a thesis entitled "Risk Free to Risk Taking: Developing the Renaissance Manager.

Receiving honorable mention was Sloan Master's Program graduate Marco Villa, for his thesis, "A Marketing Model for a Software Firm.

R85-645, Principal Research Scientist, Materials Processing Center R84-475, Postdoctoral Associate, Energy Laboratory R84-549, Research Scientist, Energy Laboratory R84-492, Research Associate, Energy Laboratory

- R84-433, RF Engineer, Plasma Fusion Center
- R84-426, Research Scientist, Plasma Fu-
- sion Center R84-381, R84-383, R84-384, SRS Postdoctoral Positions, Spectroscopy Lab R84-373, Research Engineer, Aeronautics
- & Astronautics
- R84-333, R84-332, R84-331, Research Staff and Principal Research Staff, Electrical Engineering and Computer
- Science R83-135, Research Scientist, Earth, At-
- mospheric & Planetary Sciences R83-988, Experimental Physicist, Center for Space Research
- LIBRARY SUPPORT
- STAFF: L86-229, Library Assistant IV, MIT Libraries - Catalogue Department (temporary)

- SECRETARY/STAFF ASSISTANT B86-264, Administrative Secretary, Center for Real Estate Development
- B86-263, Sr. Secretary, Educational Biological Sciences R86-897, Technical Assistant, Psychology
 - Council B86-261, Sr. Secretary, Biology (part-time) B86-259, Sr. Staff Assistant, Center for
 - Advanced Engineering Study B86-257, Sr. Secretary, Center for
 - Materials Research B86-256, Sr. Secretary, Electrical Engineering and Computer Science
- for Electromagnetic and Electronic (part-time) B86-251, Sr. Secretary, Alumni R86-891, Research Specialist, Laboratory
- for Electromagnetic and Electronic Association B86-243, Staff Assistant, Personnel-
 - Benefits Office B86-239, Sr. Secretary, Sloan School of
- Division of Health Sciences R86-886, Research Engineer, Energy Manageme ment Sr. Secretary, Medical B86-236.
- Department R86-882, Research Specialist, Research
 - Chemistry B86-217, Administrative Staff Assistant, Research Laboratory of Electronics (pt) B86-232, Sr. Secretary, Laboratory for Manufacturing and Productivity (pt) B86-231, Sr. Staff Assistant, Sloan School of Management B86-221, Sr. Secretary, Center for Space Research B86-218, Sr. Secretary, Chemical

B85-081, Sr. Secretary, Electrical Engineering and Computer Science B85-057, Sr. Secretary, Chemical Engineering B85-040, Sr. Secretary, Electrical Engineering and Computer Science B85-039, Sr. Secretary, Materials Science and Engineering B85-038, Sr. Secretary, Electrical

B85-115, Sr. Secretary, Fiscal Planning

and Budget B85-114, Sr. Secretary, Whitaker College

- Bob-036, Sr. Secretary, Electrical Engineering and Computer Science B85-020, Sr. Staff Assistant/Assistant Production Manager, Center for Ad-vanced Engineering Study B85-849, Sr. Medical Secretary, Psychiatric Services
- **Psychiatric Services** B85-862, Sr. Secretary, Center for Infor
- mation Systems Research
- B85-984, Secretary, Earth, Atmospheric, and Planetary Sciences (part-time)
- B85-617, Sr. Secretary, Biology B85-465, Sr. Secretary, Physical Plant
- FECHNICAL SUPPORT STAFF T86-258, Technical Assistant, Civil
- Engineering T86-245, Dental Assistant
- T86-235. Medical
- Assistant (Obstetrics/Gynecology), Medical Department
- T86-199, Assistant Communications Con-
- sole Operator III, Physical Plant T86-155, Technical Assistant, Medical Department (part-time)
- T85-121, Architectural Designer/Drafts-person, Physical Plant
- T85-088, Sr. Technical Typist, Chemistry (part-time)
- T85-971, Ophthalmic Assistant, Medical T85-621, Technical Assistant, Telecom munications System OFFICE ASSISTANT
- - S86-246, Office Assistant, Office of the Registrar S86-244, Office Assistant, MIT Libraries
 - Administrative Services S86-242, Office Assistant, Office of the
- Registrar S86-195, Office Assistant, Cell Culture
- Department B86-178, Administrative Secretary, S86-190, Office Assistant, Personnel-
 - Faculty and Staff Information Se 86-262, Receptionist, Al S86-262, Alumni c, istio

Systems R86-908, Research Associate, Laboratory for Information and Decision Systems R86-905, Research Staff/Microprocesson Programmer, Haystack Observatory R86-900, Technical Assistant, Psychology and Brain Science R86-885, Research Associate, Center for

Systems

Systems

Laboratory

Technology, Policy and Industrial Development

Office Assistant

Administrative Assistant, Alumni Association, to coordinate Cambridge-based projects and other administrative functions of the national MIT Enterprise Forum of Cambridge. Will be responsible for processing all program materials including serving as editorial and produc tion coordinator for monthly newsletter. Will interact with alumni leaders, Forum Executive Committee, corporate sponsors and the general community. Will oversee the daily operations of the national office including supervision of part-time clerical assistance. Requires five years direct/re lated small business experience or the equivalent combination of education and experience. S86-275

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 tickler system for notifying faculty, staff, and others when reports are due to donors. Duties will include a close review of files and references, including electron ic databases, of foundations, corporations and individuals for faculty and staff; sum marizing and interpreting information in files for written reports; review of giving information, prepared by senior research assistant; and computation of individuals' known wealth. Will research MIT's interaction with foundations, corporations and individuals as background for clear

nd handle detail with accuracy essential. Familiar-ity with IBM PC or willingness to learn preferred. Minimum one year experience and one year commitment required. NON-SMOKING OFFICE S86-282

Office Assistant Political Science (part time, 20 hours/week), to assist ad ministrative secretary in the support functions of ongoing research projec Communication Policy. Will order h and supplies, handle mail and telephone, type correspondence, do word processing, file, make travel arrangements, and per form occasional messenger service. Ability to do word processing on personal com-puter (WordStar on Apple, Wang, IBM PC) necessary. Minimum 1 year experi-ence in office setting required. Business school background helpful. S86-277

Office Assistant, Cell Culture Center, to file, process all incoming and outgoing mail, handle reprint requests, assist supervisor in processing shipping materials and invoicing, and perform minimal accounting procedures. Ability to type 45 wpm with accuracy and neatness, and ability to work independently important. A good telephone manner essential. Minimum one year direct/related experience required. NON-SMOKING OFFICE

Service Staff

Carpenter, Physical Plant, with a mini of 7 years experience in the trade with particular emphasis on finish car-

- (Assistant Librarian for Technical Processing Rotch Library for Architecture and Planning)
- C85-165, Project Archivist, chival/Manuscript Specialist, MIT Libraries (temp. 2 yrs) 85-164, Archival Assistant,
- C85-164. chival/Manuscript Specialist, MIT Libraries (temp. 2 yrs)
- A85-631, Sr. Editor, Alumni Association C85-163, Assistant Acquisitions Librarian I, The Libraries
- A85-616, Systems Programmer II-Operations and Software Developme Project Athena
- C85-161, Postdoctoral Associate, Applied Biological Science C85-159, Records Management Officer,
- The Libraries
- A85-583, Director-Graduate Alumni Programs, Alumni Association
- C85-152, C85-153, Postdoctoral Scientist, C85-152, C85-153, Postaoctoral Scientist, Spectroscopy Laboratory C85-143, Assistant Dewey Librarian I,
- MIT Libraries A85-553, Sr. Analyst Programmer,
- Comptroller's Accounting Office C85-147, Academic Staff-Technical In-
- structor, Electrical Engineering
- C85-146, Postdoctoral Associate, Applied
- Biological Sciences C85-139, Clinical Veterinarian, Division
- of Comparative Medicine C85-137, Postdoctoral Associate, Harvard-MIT Division of Health Sciences,
- Technology C85-136, Postdoctoral Associate, Applied
- Biological Sciences A85-513, Secretary of the Alumni Association, Alumni Association
- R85-880, Research Engineer, Earth, Atry i R85-879, Research Engineer, Earth, Atmospheric, and Planetary Sciences R85-871, Chief Operator, Sponsored Research Technical Staff, Laboratory for Nuclear Science R85-861, Research Scientist, Earth, At-mospheric, and Planetary Sciences R85-854, Research Associate, Earth, Atmospheric, and Planetary Sciences R85-846, Manager of Computer Services (Research Engineer), Aeronautics and Astronautics R85-844, Research Engineer, Energy Laboratory R85-839, Technical Assistant-Molecular Biology, Applied Biological Sciences R85-831, Research Specialist (temp-1yr), Materials Science & Engineering R85-822, Research Scientist, Research Laboratory of Electronics R85-796, Research Scientist, Laboratory for Electromagnetic and Electronic Systems R85-776, Research Staff, Francis Bitter National Magnet Laboratory R85-770, Research Specialist, Center for Materials Science and Engineering R85-743, Assistant Group Leader-Diagnostics, Plasma Fusion Center R85-731, Research Engineer, Aeronautics and Astronautics R85-727, Research Associate, (temp. 3 Research Laboratory of mths), Electronics R85-723, Scientific Research Staff, Center for Space Research R85-711, Research Staff, Haystack Observatory R85-681, Research Scientist, Plasma Fu sion Center
- Engineering B86-215, Sr. Secretary, Industrial Liaison Program
- B86-214, Sr. Secretary, Mechanical Engineering
- B86-207, Sr. Secretary, Energy Laboratory B86-204, Sr. Secretary, Electrical
- Engineering and Computer Science-Microsystems Technology Laboratories B86-194, Sr. Secretary, Sloan School of
- Management B85-906, Sr. Staff Assistant, The
- Libraries-Administration B85-128, Secretary/Receptionist, Purchas-ing and Stores, Office of Laboratory
- Supplies B86-178, Administrative Secretary,
- Chemistry
- B86-187, Sr. Secretary, Biology (part-time) B86-181, Sr. Staff Assistant, Nuclear Engineering
- B86-180, Sr. Secretary, Materials Science and Engineering B86-176, Sr. Secretary, Bursar's Office
- B86-153, Sr. Secretary, Humanities History (part-time)
- B85-144, Sr. Secretary, Center for Space Research
- B85-138, Sr. Secretary, Mechanical
- Engineering B85-024, Sr. Secretary, Treasurer's Office B85-133, Secretary, Media Laboratory

- S86-249, Receptionist, Center for Real Estate Development
- S86-240, International Marketing Assistant, MIT Press
- S86-272, Office Assistant, Physical Plant S86-189, Administrative Assistant Biology
- S85-123, Administrative Assistant, Urban Studies and Planning S85-866, Receptionist, The Laboratory of
- Architecture and Planning S86-200, Office Assistant, Provost's Office S86-195, Office Assistant, Cell Culture Center
- S85-143, Head Custodian, Endicott House S86-183, Second Cook, Endicott House SERVICE STAFF
- H86-348, 2nd Class Engineer, Day Crew Maintenance, Physical Plant
- H86-336, Instrument Systems Worker, Automatic Temperature Controls, Physical Plant
- H85-313, Technician B (E-M), Plasma Fu
- sion Center
- H85-289, Porter, Faculty Club
- H85-286, Counter Person, Faculty Club H85-242, Technician A (Electronic), Fran-
- cis Bitter National Magnet Laboratory H85-241, Sr. Technician (electronic) Laboratory for Manufacturing and
- Productivity H85-173, Technician B (electronics), Plasma Fusion Center
- H85-161, Technician A (E-M), Energy Laboratory

Tech Talk, March 12, 1986, Page 7

-Here & There-

After John H. Slater, assistant professor of civil engineering, gave a talk on bridges to a fourth grade class in Easton, the thank-you notes he received put smiles on the faces of all who read them.

Here are some excerpts, just as they were written:

Some day I think I'll go to your school to learn to make bridges."

----"I always wanted to build a brige and now that you told me all about briges I can build one. I hope."

-"You explained bridges and how they worked great. You must bild bridges great."

—"on February vacation I'm going to maine to see my grandmother and grandfather well what I mean is I have to go over one brige to get to maine and if we want to go food shopping we have to go over another brige that is so tiering but we need stuff well anyway I want to say thanks for coming."

---"Now I know more about bridges. I liked when you talked about tension. P.S. does MIT have a football team?"

T^he Rev. Robert J. O'Donnell, Roman Catholic chaplain at MIT, has been elected to a four-year term on the Paulist General Council, the advisory and governing body that works with the president of the Paulist Order, of which Father O'Donnell is a member. A major task of the council is the selection of pastors to head Paulist parishes across the country. Organized in 1858, the Paulists were the first Catholic order of men founded in this country. Father O'Donnell has been at MIT since 1983.

Back in December, Washington Post columnist Bob Levey ran an item about a 12-year-old Rockville, Md., boy who lost a treasured possession to a locker thief at school—an MIT '64 shirt that his father wore while a student here. Levey wondered whether any members of the '64 class living in the Washington area—perhaps about 50 in all—might have a similar shirt "hanging around the attic" and would want to make a young man in Rockville "very happy." He offered to be the middleman. Alas, Levey told Here & There last week, there was no response to his plea. But he still would like to find a '64 shirt.

Peter Huber, a 33-year-old lawyer with three degrees from MIT, including a doctorate in mechanical engineering, has been picked by the US Justice Department to head a team looking into recommending changes in Judge Harold Greene's modified final judgment on the Bell System breakup.

Paul R. Strauss, writing in Data Communications magazine, describes Huber as a "whiz," having earned his MIT PhD at 23, younger than usual, and then obtaining a Harvard law degree while teaching at MIT. He went on to become a clerk for Supreme Court Justice Sandra Day O'Connor and a research fellow at Harvard's Kennedy School of Government. With his combination of law and engineering, plus outside study in economics, "Huber seems to have the perfect background to investigate the ways data communications technology changes telephone companies and vice versa," Strauss writes.

Huber received the SB and SM in mechanical engineering in 1974, and the PhD in 1976. While his doctorate in mechanical engineering, specifically fluid mechanics, might not seem directly applicable to the task at hand, Strauss comments, "Huber has a longtime broad interest in public service. . . His doctoral dissertaion analyzed properties of electrostatic charges in liquid fuels—which, as a practical consequence, can be used to find ways of stopping aircraft from exploding in flight." -0-Two MIT graduates who received the SM in 1985—Claire Bischoff in mechanical engineering and Matthew Buresch for best thesis in Technology and Policy. The award, sponsored by the Technology and Policy Program at MIT and designed to encourage thoughtful work on technological issues, is available to students throughout the Institute. Ms. Bischoff's thesis, "The Role of Anal-

Ms. Bischoff's thesis, "The Role of Analysis in the Decision-making Process," considers how technical analysis shapes the way issues are perceived and resolved. Mr. Buresch did an engineering and economic analysis of "Residential Photovoltaic Generation in New England." He is the author of *Photovoltaic Energy Systems*, published by Prentice-Hall. Their advisors, respectively, were Professor **Richard de Neufville** and **Dr. Richard Tabors.**

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Inside Rhythms, a performance piece created by Christopher Janney, former research fellow at the Center for Advanced Visual Studies, will be presented by the American National Theater at the Kennedy Center for the Performing Arts in Washington Saturday, March 15. Janney graduated in 1978 as one of the first students in the Master of Science in Visual Studies program. Inside Rhythms will be presented here in Kresge Auditorium April 17, sponsored in part by the Council for the Arts at MIT.

(Do you have something to contribute to Here & There? We're on the lookout for short items, preferably of a personal nature. They can be sent to Here & There, News Office, Rm 5-111.)

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PRESS CLIPPINGS:

-A Boston Herald story on the death of the world's oldest man at the age of 120 said that when he was born, on June 29, 1865, MIT "had just graduated its first freshman class." Not quite. MIT admitted its first students in 1865.

-Another Herald story, on Corazon Aquino's rise to the presidency of the Philippines, quoted an MIT graduate student from the Philippines as scoffing at those who question Mrs. Aquino's leadership abilities. "Women in the Philippines are strong figures," said Eduardo (Jay) Olaguer, a doctoral candidate in meteorology. "When Sandra Day O'Connor was appointed (to the US Supreme Court) here it was a big deal. It would have been ordinary there. Running a home in the Philippines is a great task. If you can do that you can run a government." Olaguer, from Quezon City, plans to return to the Philippines some day, with considerably more enthusiasm now, he told Here & There. -The New York Times, in its "Evening

-The New York Times, in its "Evening Hours" column, took note of the big bash thrown for MIT in the Big Apple last month. Against the background of a replica of Killian Court in the Hotel Pierre's main ballroom, the newspaper said, the evening "had the makings of a big merger-top corporate executives, leading investment bankers. . .John Castle, chief executive of Donaldson, Lufkin & Jenrette, who arranged the dinner." It added: "Whether anyone walked out with a deal is unclear, but there was a consolation prize: solid chocolate beavers, served as the last course."

-Mothering the Mind: Twelve Studies of Writers and Their Silent Partners, a book by MIT's Ruth Perry and Martine Brownley (New York: Holmes & Meier, 1984), was the subject of editorial comment in the fall issue of Tulsa Studies in Women's Literature. Ms. Perry, senior lecturer in the School of Humanities and Social Science, is director of the Women's Studies Program.

-Both the Globe and the Herald in Bos-



Representatives from E.I. du Pont de Nemours & Company recently visited the campus to present a check for \$366,000 to support a variety of Institute programs. The visitors, pictured with President Gray were, from left: Dr. Vance E. Senecal, vice chairman and executive director of the Committee on Educational Aid; Lewis E. Shumaker, supervisor of the Department of Employee Relations, and Dr. Stephen T. Toy, consultant in Life Sciences. Du Pont support of MIT goes back to 1918 and to date totals more than \$4 million. —Photo by Calvin Campbell

Committee regulates nearly 200 human experiments each year

By SHARON DAVIS Staff Writer

Every third Thursday of the month, the MIT Committee on the Use of Humans as Experimental Subjects (COUHES) meets to approve or disapprove MIT research projects that use people as research subjects.

The 16-member committee, chaired by Dr. George Wolf, senior lecturer and professor emeritus in the Department of Applied Biological Sciences, regulates nearly 200 experiments annually, including those involving drugs, radiology, psychology, sociology, nutrition and medical studies.

"Our first aim is to protect people who are experimental subjects. Second, we want to see that the research gets done," he said.

Diagnosis or treatment of diseased subjects, if experimental, must also be approved—even if it is beneficial.

Since he was appointed chairman 18 months ago, Dr. Wolf has not rejected any proposal outright. His predecessor, Dr. Bernard Gould, turned down only one or two in the 17 years he held the post. However, many proposed experiments have to be modified, some radically, to meet the requirements of the committee.

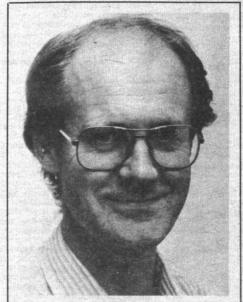
In 1962, MIT was among the first educational and research institutions to review the use of humans in experiments. This was before federal regulations required it, Dr. Wolf noted.

How do investigators apply? First, an application from Dr. Wolf's office (Rm 56-213) must be filled out. Procedures to be used, including medication, diets, any physical agents such as radiation, electrical stimulation, psychology and physical stress must be described.

Sample questionnaires or examples of proposed interviews must be submitted. Any embarrassment, humiliation or deception during interviews with subjects have to be revealed. Confidentiality is a must.

If the use of radioactive materials or other sources of radiation energy is proposed, the project approval must also be obtained from the Committee on Radiation Protection.

"Usually when investigators propose experiments, they attach background literature on similar experiments to assure the committee



of the experiment's safety," Dr. Wolf added. After the application is submitted, Dr. Wolf, with the aid of a COUHES member, can grant

provisional approval. At the COUHES meeting, he presents the applications and the group will make final decisions. "We weigh the benefits to be expected from the research against the risks," he added.

After the review, the committee reports in writing to the investigator, with copies sent to appropriate department heads or laboratory directors.

If an unfavorable decision is reached, investigators are called to defend their projects. Dr. Wolf and his secretary, Debra R. Milamed, spend much of their time on the telephone trying to persuade investigators to compromise and modify their protocols.

"One project, a recently developed prosthetic device, was finally approved after six months of calls and meetings," he said. Every attempt is made to assist the re-

Every attempt is made to assist the researcher in modifying the experiment in order to meet the COUHES requirements, he said.

Approval is valid for one year. Any changes in the use of the subjects must be approved by COUHES before they take effect, he said.

A critical component of the application is the consent document which is to be read and signed by the prospective subject. It also must be written in clear, plain English so that subjects will understand the experiments in which they participate and be totally aware of all risks.

Investigators contemplating using humans in research can call Dr. Wolf's office at x3-6781 for more information.

Speaking this week

-Raymond Nasher, a national developer and chairman of the board of The Nasher Company of Dallas, Tex., will speak tonight (Wednesday, March 12) on "Humanizing the Environment Through Development." His talk—at 6pm in Rm. 9-150—leads off the Center for Real Estate Development's 1986 Hahn Lecture Series.

--Charles L. Brown, chairman of the board of the American Telephone & Telegraph Company, will speak at MIT on Thursday (March 13) on "Shaping the Information Age." His talk--at4:30pm in the Bowen Room (E51-329)--is part of the Sloan School's Distinguished Speakers Series.

ton gave important space to the Kresge concert by IRCAM of Paris, in collaboration with MIT's Experimental Music Studio. The Globe's Richard Buell wrote with marked enthusiasm, describing one of the works as a masterpiece. The daring program attracted one of the largest Kresge audiences ever assembled for a computer music concert.

Reactor seminars set for HS teachers

MIT's Nuclear Reactor Laboratory will offer high school science teachers nine seminars on the uses of research reactors during the remainder of the academic year.

in electrical engineering and computer

science-are corecipients of the first award

The objective of the seminars is to familiarize high school science teachers with the scientific, engineering and medical uses of nuclear research reactors and to involve the teachers in typical applications and experiments.

The seminars are conducted free of charge by the faculty and staff of MIT with funding from the US Department of Energy and MIT. Each seminar consists of two four-hour sessions on two days. All material and supplies are provided by MIT. In the first session teachers will receive an overview of research projects and activities at the 27-year-old reactor adjacent to the MIT campus. They will tour the reactor and become familiar with its design and operation and they will attend lectures on radiation protection principles and on health physics instrumentation and measurements.

The second session will cover measurements on reactor neutrons and demonstration of the wave-like properties of matter, neutron activation analysis principles, and irradiation of a specimen for elemental trace analysis by that method.

The Nuclear Reactor Laboratory began offering the seminars last spring on a trial basis. More than 30 teachers from 16 high schools have attended, said William Fecych, coordinator of the seminars for the laboratory. Dr. Tomas Hokfelt, Professor of Histology with Cell Biology at the Karolinska Institute in Stockholm, will discuss "Neurons with Multiple Messengers," Wednesday, March 12, at 4:30pm, in Huntington Hall (Rm 10-250). Professor Hokfelt, who received the MD degree in 1971, is a member of the National Academy of Science and last year was corecipient of the New York Academy of Science's Award in Biological and Medical Sciences. His talk at MIT is part of the Whitaker College Distinguished Lecture Series.

Chorus to premiere

The newly formed MIT Chamber Chorus, under the direction of John Oliver, senior lecturer in music, will present its first concert Wednesday, March 19, at 8pm in Kresge Auditorium.

The premiere will be varied, with music spanning the centuries. The 25-member group will feature selections from the renaissance to present times. This will include a collection of English songs and works by Debussy, Brahms and Barber.

Students who passed the audition for the MIT Choral Society, also directed by Mr. Oliver, were eligible to try out for the smaller Chamber Chorus. The chorus, composed mainly of undergraduate students, includes "one or two graduate students," he said. When Mr. Oliver came to MIT in 1964, the

When Mr. Oliver came to MIT in 1964, the male glee club had been incorporated into the choral society. At that time, the Society was made up mostly of staff and faculty members. There were few students. "But," recalled Mr. Oliver, "the Choral Society's student population grew so that last spring we decided to organize a student chorus."

Mr. Oliver is also founder and director of the John Oliver Chorale and the Boston Symphony Orchestra's Tanglewood Chorus. The concert is free and is open to the public.

Page 8, Tech Talk, March 12, 1986