November 6, 1985 Volume 30, Number 11

Apartheid final

The Institute Colloquium apartheid forum convenes this afternoon (Wednesday, Nov. 6) at 3:30 in Kresge Auditorium with a talk on "The Battle for South Africa" by Dr. Nthato Motlana, chairman of the Soweto Committee of Ten and the Soweto Civic Action Com-

The talk will be followed by a community-wide reception in McCormick

Thursday afternoon will bring a panel discussion, 2:30-5pm also in Kresge on What Can and Should Americans Do about South Africa." Oliver Tambo, president of the African National Congress, who was scheduled to participate and to give the closing address will be unable to attend. Replacing Mr.Tambo on the panel will be Johnny Makatini, US representative of the African National Congress. Another new panelist will be William Jacobsen of the US State Department Working Group on South Africa. Other panelists are listed in The Institute Calendar, as are all other events scheduled for the two-day forum.

Early deadline

Because of the Veterans's Day holiday Monday, Nov. 11, the deadline for listings in next week's Tech Talk will be NOON THURSDAY, Nov. 7.

In addition, Tech Talk will not be published Wednesday, Nov. 27, because of Thanksgiving vacation. The Institute Calendar in the November 20 issue will cover the period from November 20 through December 3. Listings for inclusion in Institute Notices, the Institute Calendar and Classified Ads in that issue must be submitted by noon Friday, Nov. 15.

Number, please

The 1985-86 MIT Student Directory has been published. Copies are available in the Information Center, Rm.

United Way

A meeting for chief solicitors for the United Way campaign will be held Friday, Nov. 8, at 2:30pm in the Bush Room (10-105). To date, the campaign has raised \$98,000 toward its goal of

Book sale

New and used engineering and Wednesday, Nov. 13, 10am-4pm, in one of the MIT Libraries' periodic book sales. Included will be textbooks, reference books and technical reports at prices ranging from 50 cents to \$4.

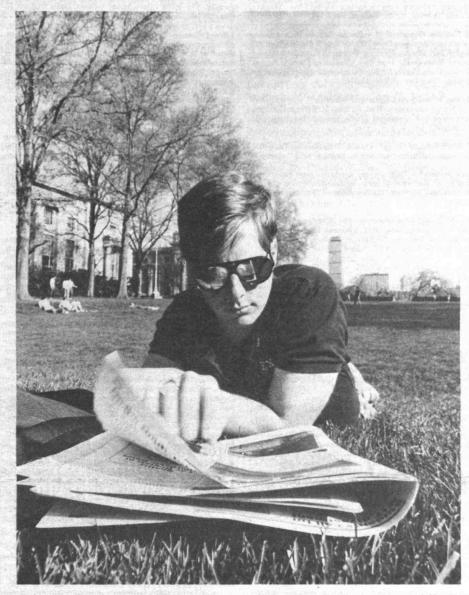
Prices will be lowered as the day progresses, so bargain hunters should plan on stopping by more than once. Proceeds will benefit the Libraries' Preservation Endowment Fund.

China films

The MIT Association of Visiting Students and Scholars and the US-China Peoples' Friendship Association will screen seven documentary films on the Peoples' Republic of China Sunday, Nov 17 at 1pm in Rm 10-250.

Highlights will be films on Anna Louise Strong, a journalist and labor advocate who lived her last years in China, and a Chinese doctor who uses

bees to treat arthritis and rheumatism. All films are in English and admission is free. Further information may be obtained by calling 491-0577.



Contest winners announced

The winning pictures from last spring's "Photographic Images of MIT" contest are now on display in the Jerome B. Wiesner Student Art Gallery. The exhibit will continue through November 17.

Ariel Poler, a sophomore in mathematics from Caracas, Venezuela, won first prize (\$300) for the untitled photograph shown above. Bradley T. Files, who received the SB degree in electrical engineering and computer science in June received second prize (\$150) for an entry entitled "Community Service: Fall Carnival." Christine LeBeau, a senior in architecture from Alameda, Calif., won third prize (\$50) for her "Doors in Lobby 7.

Entrants were invited to submit black

and white pictures of MIT in one of six categories: campus scenes, living groups, sports, extracurricular activities, academics or special events. The contest was open to all members of the community-including alumni-and more than 100 entries were

In addition to the major prizes, the three best entrants in each of the six categories won autographed copies of Moments of Vision by Institute Professor Emeritus Harold E. Edgerton and Dr. James R. Killian Jr.

An awards ceremony to honor the winners will be held in the Gallery Friday, Nov. 8, at 2pm.

Institute adopts smoking policy

Adopted too recently to be included in the 1985 edition of Policies and Procedures (which will be distributed within the next week or two), is a new Institute-wide smoking

The policy is intended to improve the work environment of nonsmokers while treating the dwindling numbers of smokers with consideration, according to Joan F. Rice,

(Massachusetts has a law prohibiting smoking in classrooms and elevators.)

The policy reads as follows:

The Institute recognizes the right of its employees to work in an environment that is relatively free of pollutants.

In the past few years there has been mounting evidence to suggest that tobacco smoke, whether inhaled directly by a smoker or indirectly by a person in the general vicinity of a smoker, is harmful to the health of the smoker and nonsmoker.

In work situations where a nonsmoker is made uncomfortable by a fellow worker's smoke, reasonable accommodation should be made to resolve the nonsmoker's discomfort. It is hoped that such accommodation can be agreed to by those in the work location, with the help and guidance of the supervisor and, if necessary, the Personnel Office.

In work situations where, after reasonable accommodations have been made, the nonsmokers are still suffering discomfort from the effects of "passive smoke," it is Institute policy that the work area be declared a nonsmoking area.

Ms. Rice said there has been a steady rise in the number of complaints about smoke in the work environment, as well as mounting research evidence of the contribution of

smoke to indoor air pollution, leading to consideration and adoption of a policy.
"In most cases," she said, "offices have been able to resolve conflicts by themselves. In other cases, the advice of a personnel officer has been helpful, and they stand ready to be of assistance wherever needed.

Rasmussen receives 1985 Fermi Award

By ROBERT C. DIJORIO

Staff Writer
Dr. Norman C. Rasmussen of the Department of Nuclear Engineering, recognized internationally as an authority on nuclear reactor safety and on the environmental impacts of nuclear-powered generating plants, has been named a 1985 recipient of the Enrico Fermi Award given by the US Department of Energy.

The award announcement cited his pioneering work in developing probabilistic risk assessment methods for analyzing reactor safety. His work led to a rethinking of the nature of reactor hazards and a redirection of safety research and development efforts, the DOE said.

The award, announced by Energy Secretary John S. Harrington, is the highest scientific award given by the DOE. It recognizes "exceptional and altogether outstanding scientific and technical achievement in the development, use or control of atomic energy." The award consists of a presidential citation, a gold medal and \$100,000 for each recipient.

Also receiving the Fermi Award this year was Dr. Marshall Rosenbluth, director of the Institute for Fusion Studies at the University of Texas, Austin.

Professor Rasmussen's work, the announcement said, has provided new insights and led to new developments in nuclear power plant safety.

"In the early 1970s, the US Atomic Energy Commission asked Dr. Rasmussen to head a project to examine nuclear reactor safety. The methods developed by Dr. Rasmussen for this project, completed in 1975, and the results achieved with those methods have had a profound influence on the nuclear energy field," the DOE said. "The probabilistic risk assessment (PRA) approach categorizes, on a systematic basis, the possible accident se-quences for a plant. Individual sequence probabilities are then derived by adapting the fault-free analysis methods of reliability engineering. The power and usefulness of the PRA methods lie in this logical ordering of possible events and in the systematic assignment of quantitative probabilities and consequences.

Dr. Rasmussen's methods are widely used (continued on page 8)

Lotus cofounder to speak at Sloan

Mitch Kapor, a founder, first president and currently chairman and chief executive officer



of Lotus Development Corporation-also an on-again, off-again and now on-again candidate for the master's degree in management at the Sloan School-will speak at MIT on Thursday, Nov. 14. He will give his talk on "Organizational Issues in the Management of Innovation Using Lotus as a Case Study" at 4:30pm in the Bowen Room, E51-329. All members

of the community are welcome. With an associate, Kapor developed Lotus' first product, "1-2-3," spreadsheet software for IBM personal computers that is now the industry standard. After that came "Symphony," also for the IBM PC, and "Jazz," for

Apple's McIntosh.

Kapor holds a BA degree from Yale University and a master's degree in psychology. He has worked in the human services field, a background he believes is important for a successful management style. From 1978 to 1981 he was an independent consultant, program author of VisiPlot and VisiTrend, product manager for Personal Software. Inc., and for one term a participant in the Sloan master's program. Currently he divides his time between directing Lotus' corporate strategy with its president and overseeing the company's research and development teams. And once again he is enrolled at Sloan.

INSTITUTE NOTICES

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

Announcements

Project Contact – Undergraduates interested in communicating with high school students and guidance couselors about what it's like to be an MIT student are encouraged to join Project Contact. For more contact the Educational Council Office, Rm 4-240, x3-354.

Information Services Computing Courses and Seminars**
- FREE SEMINARS: Database Software on Micros, Nov 6, 24pm, Rm 1-390; Introduction to the Macintosh, Nov 7, 10-12noon, Rm 1-390; Statistical Software on Micros, Nov 13, 10-12noon, Rm 1-390; Stermit Demonstration, Nov 14, 10-12noon, Rm 1-390; Text Formatting with GML, Nov 20, 10-12noon, Rm 1-390. FEE COURSES: FORTRAN on CMS Nov 12, 3-5pm, Rm 1-390. FEE COURSES: FORTRAN on Multics, Nov 14, 3-5pm, Rm 1-390. FORTRAN on Project Athena (UNIX), Nov 19, 3-5pm, Rm 1-390. VENDOR PRESENTATIONS: A Survey of Spreadsheet Software for the Macintosh, Nov 8, 9:30-12noon, Rm 1-390; A Survey of Graphics Software for the Macintosh, Nov 15, 9:30-12noon, Rm 1-390; A Survey of Database Software for the Macintosh, Nov 22, 9:30-12noon, Rm 1-390. All fee seminars, courses and training sessions require 1 week advance registration, Rm 11-315, 9:30-12noon, 1-4pm. Payments due at time of registration. MIT ID required to avoid paying maximum fee. For info, call Joan Bubluski, vs. 17-17-18.

Career Planning and Placement Company Recruitment Presentations** - Shearson Lehrman/American Express Inc, Nov 6, 5-7pm, Rm 4-149. M/A-COM Linkabit, Nov 6, 7-9pm, Rn 12-102. Arthur Andersen, Nov 7, 5-7pm, Rm 4-149. Bell Communications Research, Nov 12, 4:30-6:30pm, Rm 4-153. Megatest, Nov 13, 7-9pm, Rm 4-145. NASA/Ames Research Center, Nov 14, 7-9pm, Rm 4-153. Cabot Corporation, Nov 6, 7-9pm, Rm 4-145.

HowToGAMIT Editions 15, 16 and 17 Editing Error — Technology Community Association Erratum: the telephone number for Mary Chung's Restaurant is listed incorrectly; the correct number is 864-1991.

Graduates of Oxford or Cambridge University – The Oxford and Cambridge Society of New England reception, after dinner, Thurs, Nov 14, 7:30-9:30pm, The Lower Common Room, Adams House, Harvard (Plympton St).

Basic Pistol Marksmanship Course** – 5-wk course beginning Nov 13, covers safe handling, storage, and maintenance of hand guns, and to develop marksmanship skills to qualify for police requirements for pistol permits, Thurs, 6pm, Du Pont Pistol Range. Fee covers everything. Pre-registration and info: Andy Platais, x8-3840 Draper or Fred Akell, x8-3219 Draper.

Babysitters Needed for Wives' Group – Every Wednesday, 3-5pm, to sit for children of international wives during Wives' Group meetings, for 2 hours. \$5/hr. Call Wives' Group, x3-1614 or stop by Rm E23-376 for more information.

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.

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, 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

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.

MTT 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, 6pm, Student Center Rm 349. ACBL masterpoints awarded; come with or without partner, newcomers always welcome. Special tournaments monthly. Info call Gary Schwartz, x8-2459 Draper, or Mark Dulcey, 272-8428. Admission: \$.75/students, \$1.50/ non-students.

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

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

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

MIT Nautical Association** - Sailing Pavillion schedule: f9am-sunset every day through Nov 15. Sailing on Tech dinghies, lasers, larks, catamarans, CCT's, 24' & 38' cruise boats, windsurfing. Shore School: Beginners Class in Tech Dinghies (introduction, rigging, actual sailing), M/Th, 5:15pm. Sailing trips to Boston Harbor & special regattas will also be arranged. Call x3-4884 for details.

Human-Powered Vehicle Association* - New England Chapter meets Thurs, 8pm, Bicycle Exchange, 3 Bow St. Harvard Sq. Come help plan an HPV workshop for IAP '86.

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 Wu-Tang Club* - teaches northern Chinese kung fu, These & Thurs &

Tues & Thurs, Spm, Burton Dining Hall; Sat, 10am, Athletic Center. Beginners welcome. For info call Roger Walco, 262-5090.

MIT Tae Kwon Do Club** - Tae Kwon Do is a Korean martial art. Meetings Sundays, 4pm, T-Club Lounge; Mon-Wed, 6pm, Burton Dining Hall; Fri, 6pm, T-Club Lounge. For infocall In Ho Kim, 266-2827.

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

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

Religious Activities

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

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

Tech Catholic Community* — Roman Catholic Masses: Suns, 9am, 12noon, 5pm; Weekdays: T/Th: 5:05pm & Fri 12:05pm. All Masses in MIT Chapel. Morning Prayer: M-F, 8:15am, Chapel Basement. Bible Study: Tues, 8pm, Chaplaincy Library. Exploring Catholicism, Thurs, 7-8:30pm through Nov 14, Chaplaincy Basement. Chaplaincy Office: x3-2981.

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.

MIT Hillel Talmud Study* - Rabbi Dan Shevitz, Tues, Nov 12, 19, 8pm. Call Hillel, x3-2982 for location.

Islamic Society* – Daily prayers, Ashdown House (basement), 5 times a day. Call x5-9749 dorm, for schedule. Friday prayer, Ashdown House 1-1:45pm, Khutba starts at 1pm, congregation at 1:25pm.

Meditation and Discourse on the Bhagavad Gita* – Swami Sarvagatananda, MIT Vedanta Society, head of Ramakrishna Vedanta Society of Boston, meets Fridays through Dec 13, 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, Tech Sq Prayer Meeting, Tues, 1:30-2pm, Rm NE43-368; weekly lunch gatherings, Weds, 1:55-12:55, Student Ctr Twenty Chimneys. For info, contact Burt Kaliski, x3-5866 or Roz Wright, x3-8926. Fellowship group is also forming in the Sloan School; contact Andy Hamlin, 926-8472 for details.

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

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

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

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

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

Edgar Cayce Study Group* – Tuesdays, 6:30-9pm, Edgar Cayce's Search for God material will be used as the basis for group discussion & meditation. For info: Douglas McCarroll, 876-7134 12-9pm or Scott Greenwald, x3-7423.

Graduate Studies

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

Churchill Scholarships. The Churchill Foundation of the US awards 10 scholarships annually to US citizens between the ages of 19 and 26 to pursue one or three years of graduate study in science, engineering, or mathematics at Churchill College, Cambridge University. Applications available in Rm 5-106, x3-4861. Application deadline: November 12, 1985.

Woodrow Wilson National Fellowship Foundation Woodrow Wilson Women's Studies Research Grant for Doctoral Candidates, 1985-86. Awarded to encourage original, significant research about women on such topics as the evolution of women's role in society and particularly contemporary America, women in history, the psychology of women, and women as seen in literature. Requirements: students must have completed all predissertation requirements in Doctoral programs in any field of study at graduate schools in the US. Winners will receive grants averaging \$1,000 to be used for research expenses connected with the dissertation. The number of awards will be determined by available funds. Support for this program is provided by the Helena Rubinstein Foundation. Applications available from The Woodrow Wilson National Fellowship Foundation, Box 642, Princeton, NJ 08542, tel: 609/9244666. All materials must be received by the Foundation by November 12, and recipients will be notified by January 31, 1986.

National Science Foundation Fellowships. Three-year graduate fellowships for study leading to master's or doctoral degrees in the mathematical, physical, biological, engineering and social sciences, and in the history and philosophy of science. The fellowships provide a cost-of-education allowance in lieu of tuition and required fees, plus a stipend of \$925/month. Applicants must be US citizens or nationals at the time of application and must not have completed postbaccalaureate study in excess of 20 semester hours in any field of science, engineering, social science or mathematics. Scores of GRE's taken since October 1, 1983 are required. Preapplications for both the graduate fellowships and the minority fellowships are available in the Office of the Dean of the Graduate School, Rm 3-138. Application deadline: November 15, 1985.

Ford Foundation Doctoral Fellowships for Minorities Program. Forty three-year predoctoral fellowships and 10 one-year Dissertation Fellowships, administered by the National Research Council, to individuals who are citizens or nationals of the US and who are members of the following minority groups: American Indians or Alaskan Natives (Eskimo or Aleut), Black Americans, Mexican Americans/Chicanos and Puerto Ricans. The Predoctoral Fellowships will be three-year awards, and will be made for research-based doctoral programs in the behavioral and social sciences, humanities, engineering, mathematics, physical sciences, and biological sciences, or for interdisciplinary programs comprised of two or more eligible disciplines. These fellowships are intended for students who plan to work toward the PhD or ScD degree, and who are at or near the beginning of their graduate study. Each Predoctoral Fellowship will include an annual stipend of \$10,000 to the Fellow and an annual institutional grant of \$6,000 to the Fellowship institution in lieu of tuition and fees. There will be

no dependency or travel allowances. The Dissertation Fellowships, are intended for PhD or ScD degree candidates who have finished all required course work, who will have been admitted to degree candidacy by February 1, 1986, and who expect to complete the dissertation during the 1986-87 academic year, but in no case later than fall of 1988. Dissertation Fellows wil receive a stipend of \$18,000. There will be no institutional grant, and no dependency or travel allowances. Deadline: November 15. Announcement of awards will be made during April 1986. Applications available at the Dean of the Graduate School Office, Rm 3-138.

The Lady Davis Fellowship Trust. Seniors, graduate students, and those who have recently completed doctoral studies in any field are eligible to apply. Fellowships are tenable at the Hebrew University of Jerusalem and the Technion-Israel Institute of Technology, Haifa. Grants cover tuition, travel and living stipends in Israel. Renewal for a second year is possible. Applications are available in Rm 3-138. Deadline: November 30, 1985.

Fulbright Scholar Awards 1986-87. The Council for International Exchange of Scholars (CIES) has announced the opening of competition for the 1986-87 Fulbright scholar awards in research and university lecturing abroad. The basic eligibility requirements for a Fulbright award are US citizenship, PhD or comparable professional qualifications, university or college teaching experience, and for selected countries, proficiency in a foreign language. Application deadlines: Dec 1, 1985 for administrators seminars in Germany, Japan, and the United Kingdom; Dec 31, 1985 for NATO Research Fellowships; and Feb 1, 1986 for the seminar in German civilization, Spain Research Fellowships, and France and Germany travel-only awards. For more information, contact Dean Eugene R. Chamberlain, Rm 5-106, x3-3795.

Alice Freeman Palmer Fellowship for women graduate students sponsored by Wellesley College, for study or research abroad or in the US. Fellows must be 26 or younger at time of appointment, and must remain unmarried throughout her tenure. Stipend: \$4,000. Must be nominated by undergraduate institution. Applications must be postmarked no later than December 1, 1985. Contact Dean Jeanne Richard, Rm 3-138, x3-4869 or write directly to Secretary to the Committee on Graduate Fellowships, Office of Financial Aid, Box GR, Wellesley College, Wellesley, MA 02181 for applications.

Mary McEwen Schimke Scholarship for women graduate students sponsored by Wellesley College, to help financially with child care and household responsibilities. Based on scholarship and need. Candidates must be over 30 and currently pursuing graduate study in literature and history. Stipend: \$500-1,000. Applications must be postmarked no later than December 1, 1985. Contact Dean Jeanne Richard, Rm 3-138, x3-4869 or write directly to Secretary to the Committee on Graduate Fellowships, Office of Financial Aid, Box GR, Wellesley College, Wellesley, MA 02181 for applications.

M.A. Cartland Schackford Medical Fellowship for women graduate students sponsored by Wellesley College, for the study of medicine with a view of general practice, not psychiatry. Stipend: \$3,500. Applications must be postmarked no later than December 1, 1985. Contact Dean Jeanne Richard, Rm 3-138, 3-4869 or write directly to Secretary to the Committee on Graduate Fellowships, Office of Financial Aid, Box GR, Wellesley College, Wellesley, MA 02181 for applications.

Harriet A. Shaw Fellowship for women graduate students sponsored by Wellesley College, for study and research in music and allied arts in the US or abroad. Candidates must be 26 or younger at time of appointment. Preference given to music candidates; undergraduate work in history of art required for other candidates. Stipend: \$2,000-3,000. Applications must be postmarked no later than December 1, 1985. Contact Dean Jeanne Richard, Rm 3-138, x3-4869 or write directly to Secretary to the Committee on Graduate Fellowships, Office of Financial Aid, Box GR, Wellesley College, Wellesley, MA 02181 for applications.

Robert S. McNamara Fellowships. The World Bank annually offers 12-month fellowships for full time graduate work in fields related to economic development and institution building. Applications are considered from individuals as well as from small groups of up to five persons at the same institution for work on a joint project. Candidates for these grants must be citizens of a World Bank member country, 35 years of age of under, holders of a master's degree or equivalent, and willing to carry out their study in a country other than their own. For more information, contact Dean Eugene Chamberlain, Rm 5-106. Application deadline: December 1, 1985.

Marvin E. Goody Prize. An award of \$5,000 offered annually to a graduate student about to prepare (i.e. expected to be completed not later than September 1986) the SM or equivalent (e.g. M Arch or MCP) thesis in the building arts. The Prize was established by Joan E. Goody in the name of Marvin E. Goody, M Arch '51 (1929-1980), and faculty member (1953-68) to extend the horizons of existing building techniques and use of materials, to encourage links between the academic world and the building industry, and to increase appreciation of the bond between good design and good building. Administered by a committee consisting of John P. de Monchaux, dean, School of Architecture and Planning; William R. Dickson, senior vice-president; David H. Marks, head, Dept of Civil Engineering; Dean Perkins, dean, Graduate School. Applications and additional information available from Jackie Sciacca, Dean of the Graduate School Office, Rm 3134. Deadline: December 2, 1985. Winner announced on January 15, 1986.

Fulbright Collaborative Research Grants, 1986-87. Designed for teams of 2-3 graduate students or recent postgraduate researchers to perform joint research abroad. Applicants must be US citizens, hold a BA or equivalent before the beginning date of the grant. Those with a PhD at the time of application may have obtained the degree no earlier than June 1983. Applicants are expected to have written and spoken proficiency in the language of the host country. Application deadline: December 20, 1985. For more information, contact Dean Eugene R. Chamberlain, Rm 5-106, x3-3795.

The Business and Professional Women's Foundation's Lena Lake Forrest Fellowship Program and the BPW Foundation Research Grant Program. To support research pertaining to economic, educational, political, social on psychological factors affecting working woman. Awards range from \$500 to \$3,000. Applicants must be doctoral candidates or postdoctoral scholars whose proposal for research has been approved by an accredited graduate institution. Only US citizens are eligible. For further information contact Dean Richard. Application deadline: January 1, 1986.

Bell Laboratories Graduate Research Programs for Women. Provides financial support for outstanding women students pursuing full time doctoral sutdies in the following fields: chemistry, computer science, economics, electrical engineering, experimental human psychology, materials science, mathematics, operations research, physics, and statistics. The Fellowship Program provides full tuition and fees plus a stipend of \$925/month for the academic year (9 months) plus an allowance for books, fees and related travel expenses. The Grant Program provides an annual award of \$1,500 which the recipient may use during the academic year in any way that benefits her professional development. Fellowships and grants will be renewed on a yearly basis for the duration of the graduate program, provided the student maintains satisfactory progress toward the doctoral degree. Applications must be received by January 15, and all supporting material by January 31, 1986. Two fellowships and four grants are awarded annually in late March for graduate study beginning in September. Applications are usually submitted during the candidate's senior year in college. For further information, contact Dean Richard.

The Josephine de Karman Fellowship Trust of Pasadena, Calif. Twelve fellowships of \$3,000 each for the regular academic year (fall and spring semesters, or the equivalent where the quarterly system prevails) paid through the office of the university in which the candidate will be enrolled for study in the US. Study must be carried out in the US and all funds must be expended only within this country. Students in any discipline who are entering their senior undergraduate year or graduate students entering their senior undergraduate year or graduate students entering their third year or after of graduate school in the fall of 1986 are eligible. Postdoctorate students are not eligible. Special consideration will be given to applicants in the humanities. Foreign students already enrolled in a university located in the US are eligible. Tenure is for one academic year and is not renewable. Travel expenses are not included.

For information and application forms, write to: Fellowship Committee, ATTN Miss B.J. Brown, Secretary, Josephine de Karman Felloswhip Trust, PO Box 446, La Verne, CA 91750 on or before January 15, 1986. Announcement of awards will be made during April 1986.

Other Opportunities

Mellon Fellowship Program, 1986. The Program in Science, Technology and Society at MIT invites proposals from scientists, engineers, and physicians for several one year study fellowships on the relationships of science, technology, or medicine with society. PhD or equivalent in science or engineering is desirable. partial or full stipend. For more information write: Deborah Wilkes, Mellon Fellowship Committee, Rm E51-128. Deadline: February 1. 1986.

International Opportunities

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

Toshiba Corporation, one of Japan's largest electronics companies, seeks senior-year students holding Japanese citizenship for technical positions and administrative/managerial positions within Japan. Visit our effice for information on disciplines desired and to look at the Toshiba brochure.

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.

Volunteer internships: Internship Program for Alaska, Anchorage; Keystone Science School in Keystone, CO (residential outdoor/environmental education facility).

Internships Offering a Stipend:

American Federation of Labor and Congress of Industrial Organizations (AFL-CIO) offers a labor research internship for outstanding graduate students to work in the Economic Research Dept. Salary: \$350/wk. Internship period is for one year beginning July 1, 1986.

The Carnegie Endowment for International Peace, an educational organization in Washington, DC which conducts programs of research, discussion, publication and education in international relations and US foreign policy has advertised their Student Intern Program. The program is designed to provide a substantive work experience for students who have a career interest in international affairs. Ten students will be hired to work full time for six months. Internships begin on July 1, 1986, Oct 1, 1986, Jan 1, 1987 and April 1, 1987. Deadline is Jan 31, 1986. Students must be nominated; contact the Political Science Dept Chairman for more information.

Student Jobs

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

Student sought for cutting and binding thesis in Microreproductions Lab. Must be US citizen. Hours are 20 hrs/wk. Salary: \$5.50/hr. Call Richard Thomas, x3-5668.

Someone familiar with PC's needed to transfer files from Xerox PC to IBM PC and to optimize WordStar and other office-related software. In addition, if time permits, to carry out work on a terminal connected to VAX system. Hours are 10 hrs/wk. Salary: \$5.50/hr, or neg, depending on exp. Contact: Carolyn, 39-527, x3-6573.

Account managers needed for part-time pick-up and deliveries of copyorders. Good opportunity for those who have mornings and/or afternoons free. Transportation a plus, but not required. Hours flexible. Salary: \$6/hr. Contact: Jeff. Top Copy, 710 Commonwealth Ave., Boston, 266-1778 (between noon and 2pm).

Center for Advanced Engineering Study looking for businessoriented receptionist. Skills req for position are accurate spelling, business voice, ability to take messages correctly, switchboard exp, light filing, typing, zeroxing and general office support. Time commitment from now until summer 1986. Hours are Tues, Wed, Fri: 1-5pm. Salary: \$5:50/hr. Contact: Barbara Dullea, x3-7375 in 9-335.

Budget Rent-a-Car needs reservationist to answer phones for central reservation center. Some record-keeping involved. No exp. Will train. Hours are flexible. Salary: \$5/hr starting, plus commission. Contact Debbie Robinson, 95 Brighton Av., Allston, 787-2828.

UROP

MIT and Wellesley undergraduates are invited to join with faculty members in pursuit of research projects of mutual fascination. 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 to the UROP Office. Questions? Contact us, x3-5049, Rm 20B-141.

Joel M. Orloff Undergraduate Research Prize, New Deadline: November 12. Nominations from faculty are invited for an award of \$1,000, presented to the undergraduate who has demonstrated the most outstanding ability and creativity in physics-related research during the past summer and/or academic year. Nominations should be sent to the UROP Office.

Mechanical Engineering Project for EE/Mech E. The Computational Structures Group at the Laboratory for Computer Science seeks an electrical or mechanical engineering undergrad who has taken at least 6.002 or 6.071 and has had mechanical experience in drafting, air cooling, and stress engineering. We are building a 64 node multiprocessor research vehicle out of lisp machines connected via a high speed communication network of our own design. The communication switch rerquires a tailgate on the back of the computer which will interface between cables and an internal circuit board. The tailgate will have a small circuit board attached to it. Mechanical stresses, manufacturability, air flow, electrical integrity, and aesthetics are of primary concern. The project must be completed by the end of IAP, including drawings, documentation, and circuit board. Requires a highly motivated person, with a time commitment, able to work independently, and interested in "hands on" work. PAY or credit. Faculty supervisor: Prof Avrind. Contact: 80-8855.

Biology and Computing. Whitehead Institute for Biomedical Research Computing Groups seeks two students to assist lab group in setting up clone and plasmid databases. The projects will require learning how to use th Whitehead database systems and acquiring familiarity with recombinant genetics. Biology and computer experience desirable, but not necessary. PAY or credit. Faculty supervisor: Dr. Leon Shiman. Contact: Michael Candan, x8-5131 Whitehead, Rm WI-207.

TECH TALK



November 6, 1985 Volume 30 Number 11

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←Here & There→

MIT political science professor Lincoln P. Bloomfield, an expert on global matters, has focused on a problem closer to home—the mad world of Massachusetts traffic-in a letter to The Boston Globe. Specifically, Professor Bloomstein called attention to the Hingham Harbor traffic circle "in the hope that mayhem might be averted through timely attention to the daily stock-car follies." As at traffic circle throughout the state, he said, drivers at the Hingham rotary routinely ignore the law that gives the right of way to cars inside the circle. He concluded in his best wry manner: "This particular circle is a kind of Beirut of vehicular traffic, but is a metaphor for the traffic situation in the commonwealth as a whole...It is fruitless to counsel reform of the Massachusetts driver, or of the enforcement authorities, whose spirit is evidently broken...I would recommend large signs at each entrance to the circle that read: "The law (which is not enforced) says slow down and give cars in the circle the right of way. Proceed at your own -0-

MIT's Mexican students have written an open letter to the MIT community thanking it for its encouragement, help and financial support in that nation's "moment of grief." The reference, of course, is to the earthquake that struck Mexico City and other areas in September, taking many lives and causing widespread destruction. "The MIT community's concern for our families' well-being and for Mexico City's residents in general was highly appreciated," wrote the Association of Mexican Students in a letter to Tech Talk. "During the first days after the earthquake your moral support gave us strength and relief. Your economic support, mostly channeled through the NAFINSA (national) Reconstruction Fund and the American Red Cross is highly valuable at a time when this natural catastrophe further hinders Mexico's economic development." The students noted that reconstruction has just begun, will take years to accomplish and will be extremely expensive. Hence, they said, contributions are still welcome. Checks can be sent to the Red Cross; to the Reconstruction Fund in care of the Mexican Consulate at One Post Office Square, Boston 02109; or to Karen Zuffante in the International Students Office (Rm. 5-106). The students said they were especially grateful to the International Students Office and to the MIT Radio Society (W1MX), whose amateur radio operators relayed messages to and from Mexico. Victor Romero, a graduate student in physics, said the Mexican student group would sponsor a lecture series on Mexico during IAP. MIT has some 48 Mexican students, 15 undergraduates and 33 graduate students.

-0-

The two senior awards of the American Institute of Chemical Engineers will be presented to two members of the MIT Department of Chemical Engineering at the AICE annual meeting in Chicago. The Warren K. Lewis Award will be presented to Dr. James Wei, head of the department and Warren K. Lewis Professor of Chemical Engineering. The William H. Walker Award will be presented to Dr. Howard Brenner, Willard Henry Dow# Professor of Chemical Engineering. The awards are named for men prominent in the history of chemical engineering as a discipline and as a course of study at MIT, which established the first chemical engineering department in 1920 with Professor Lewis as its first head. Professor Walker headed chemical engineering at MIT in its pre-department days, The award to Dr. scholarly contributions to chemical reaction engineering literature" and "his impact as an educator." The award to Dr. Brenner cites his "generalization of the Taylor dispersion theory to classes of transport phenomena greatly beyond its original scope" and "his novel approaches to modelling interfacial transport processes.

The American Society of Mechanical Engineers had elevated Dr. Robert W. Mann, Whitaker Professor of Biomedical Engineering at MIT, to fellow status. Its citation said that Professor Mann's work on human rehabilitation in the past 25 years "has helped define the field, and has developed computer programs and prostheses for the physically handicapped and has contributed to the understanding and treatment of degenerative arthritis." Also made a fellow was an MIT alumnus, Franklin O. Carta (SB 1952 and SM 1953, aeronautical engineering), senior research engineer and supervisor in the aerodynamics group at the United Technologies Research Center in Hartford, Conn.

Professor Yosef Sheffi of the Department of Civil Engineering received the 1985 E. Grosvenor Plowman Award from the National Council of Physical Distribution Management for his paper, "Carrier/ Shipper Interactions in the Transportation Market: An Analytical Framework." He presented the paper at the 15th annual Transportation and Logistics Educators Conference in October.

PRESSCLIPPINGS:

-The New York Times reports that more than 1,600 scientists and nearly 1,200 graduate students-including an unspecified number at MIT-have signed pledges to reject research work related to the federal government's plan for a space-based missile defense system. The story also quotes MIT physicists with opposing views. "The interest has been enormous," said Dr. Aron M. Bernstein. "This thing is really catching on." Dr. Bernstein told the Times the organizers of the campaign hope "to pursuade the government to change its policy. What we're saying is, it's unrealistic. Don't ask us to do an unrealistic job." Among the scientists who have refused to sign the pledge, saying it is impossible to know if such a system is feasible, is MIT physicist George Bekefi, said the Times. "This is an assessment that will take a decade," he said."This is precisely what research is all about. One has to look with an open mind.'

-Still on the same subject, MIT electrical engineering professor Jack Ruina, an expert on arms control, told a London conference, according to Reuters news agency, that any attempt to make longrange ballistics missiles obsolete "is technically an absurd idea...A perfect defense is out of the question, known by everybody except a few key political leaders.'

-An expert panel studying nuclear test verification methods—chaired by an MIT professor—has concluded that the Reagan administration used faulty assumptions when it accused the the Soviet Union of violating treaty limits in its underground nuclear tests, according to the Times. The panel, chosen by the Pentagon, accordingly has recommended that the government revise its procedures for estimating the power of Soviet tests. "Our knowledge of seismological methodologies has significantly improved over the past five years," said Thomas H. Jordan of MIT, Robert R. Shrock Professor of Earth and Planetary Sciences. The administration has argued that American experts must take direct measurements of a Soviet test to establish the accuracy of its seismic data, but Professor Jordan disagrees. "It appears to me right now that we can verify (whether tests exceed treaty limits) with existing national technical means," he said.

-MIT ranks llth among American universities in the number of undergraduate and graduate degrees-1,262-granted to top business executives, according to an Associated Press story on a survey conducted by Standard & Poor's Corp., the business information company. Harvard University heads the list with 5,156 degrees granted to executives. Rounding out the top five were New York University, Yale, Columbia and the University of Pennsylvania.

-The Maine Times quotes two University of Maine students-both Merit Scholarswho chose to study engineering at the state university although they had been admitted to such schools as MIT. One voiced concern about MIT's cost, and the other about its competitiveness. "MIT is the highest bill in the country," Janie Garris told the newspaper, "and it's considered the most academic. But I was thinking of med school and I didn't want to be \$60,000 in debt when I started." She said she never found out if MIT would have offered her financial support because she withdrew her application after being accepted. Said another student, unidentified: "I tend to get pushed under if I'm overwhelmed. I figure everyone at MIT is going to be the very, very top. I don't feel I'd do my best if I were at the bottom of the heap.

-A syndicated Boston Globe article says a study by Harris R. Lieberman, a research scientist in the Department of Psychology, found some beneficial effects from small doses of caffein. When two groups were asked to listen to a series of musical tones through headphones and push a button each time they heard a tone that was shorter than the others, the newspaper said, those who had been given caffein could detect more of the short tones. "It looks as if the caffein improved the subjects' vigilence-that is, their ability to pay attention to boring tasks for long periods,"Lieberman said.



Institute Professor Franco Modigliani had been given a significant honor this year ever before he was selected as a Nobel laureate. At a recent ceremony in President Paul E. Gray's office he received the \$5,000 honorarium that accompanies the James R. Killian Jr. Faculty Achievement Award. Also present were Dr. Killian, former president, chairman and honorary chairman of MIT, and Professor Mary C. Potter, chairman of the faculty. Professor Modigliani will present two Killian lectures on April 2 and 9.

incoln Advisory Board named

The appointment of a 12-member Lincoln Laboratory Advisory Board has been announced by Professor John M. Deutch, MIT

Lincoln Laboratory is a center for research and development in advanced electronics with special emphasis on applications to national defense. The board members, who were appointed by President Paul E. Gray, are out-

technology, national security policy and technical management.

The board will report to Professor Deutch, as does Lincoln Laboratory

standing individuals with backgrounds in

Named chairman by Dr. Gray was Norman R. Augustine, senior vice president-information systems, Martin Marietta Corp., Bethesda,

Professor Deutch said that "MIT is extremely fortunate that such an outstanding group of individuals is willing to devote time to providing advice on the research program of the laboratory and its future directions. I am confident that the Advisory Board will give Lincoln Laboratory the same benefit that the campus receives from the visiting committee structure.'

Lincoln Laboratory programs include satellite communications, radar technology, optics, computer systems and digital signal processing, image processing, space surveillance and air traffic control. The laboratory is located in Lexington, Mass., about 20 miles away from the MIT campus, and has a research and support staff of about 2300 people. The laboratory director is Walter E. Morrow, professor of electrical engineering at MIT.

In a letter to board members, thanking them for accepting the appointments, Dr. Gray said: "We expect that the board will provide valuable advice as a group of outside experts to the MIT administration and the Lincoln Laboratory management. Your participation is testimony to the high regard in which Lincoln Laboratory is held. Indeed, the laboratory is an exciting technical place which makes important contributions to the nation, and I am sure you will profit from and contribute to its efforts. We view Lincoln Laboratory as an integral part of MIT and the creation of the Advisory Board is an important step we are taking to assure the laboratory's continued technical vitality and technical contributions. I look forward to meeting with the board from time to time or at any occasion when an issue arises which you believe merits immediate attention," Dr. Gray said.

Other members are:

Dr. Solomon Buchsbaum, executive vice resident-customer system, AT&T Bell aboratories, Holmdel, N.J.

Dr. Esther M. Conwell, research fellow, Xerox Webster Research Center, Webster, N.Y. Professor Sidney D. Drell, deputy director, Stanford University Linear Accelerator

Center, Stanford, Cal. Dr. William J. Perry, managing partner, H&QT Technology Partners, Menlo Park,

Dr. Percy Pierre, president, Prairie View A&M University, Prairie View, Texas.

Dr. Frank Press, president, National Academy of Sciences, Washington, D.C.

Dr. Burton Richter, director, Stanford University Linear Accelerator Center, Stanford, Cal.

Lt. Gen. Brent Scowcroft, USAF (Ret),

Washington, D.C. Dr. Jasper A. Welch, Jasper Welch

Associates, Arlington, Va. Professor George M. Whitesides, Department of Chemistry, Harvard University, Cambridge,

Mass.
R. James Woolsey, Shea and Gardner, Washington, D.C.

Psychiatrist to discuss Nazi MDs

Dr. Robert Jay Lifton, renowned psychiatrist, author and academician, will speak on

"Nazi Doctors: Genocide and Moral Schizophrenia" on Friday, Nov. 15, at noon in Rm 9-150. Dr. Lifton is Distinguished Professor of Psychiatry and Psychology at The City University of New York and the Mount Sinai Medical Center.

Dr. Lifton's appearance at MIT is being sponsored by Hillel, the Religious Consellors, and the Medical Department Psychiatric Service.

Dr. Lifton had previously held the Foundations' Fund Research Professorship of Psyale University decades. He has been particularly interested in the relationship between individual psychology and historical change, and in problems surrounding the extreme historical situations of our era. He has taken an active part in the formation of the new field of psychohistory.

He has written extensively on topics such as Nazi doctors and the problem of genocide; nuclear weapons and their impact on death symbolism; Hiroshima survivors; Chinese thought reform and the Chinese Cultural Revolution; psychological trends of contemporary man and woman, and the Vietnam War experience and Vietnam veterans in a variety of professional journals.

In recent years he has been developing a general psychological perspective around the paradigm of death and the continuity of life and a stress symbolization and "formative process." Since late 1977 he has been conducting research on medical behavior in Auschwitz and Nazi doctors in general, and is preparing a manuscript entitled From Hero to Killer—The Doctors of Auschwitz.

Cleveland Quartet to play here

By CLARISE E. SNYDER

Concert Coordinator

The Cleveland String Quartet will give the first Boston performance of John Harbison's String Quartet No.1 on Sunday, Nov. 17, at 8pm in Kresge Auditorium. Sponsored by the MIT Guest Artist Series, the concert is free and open to the public.

Harbison's first quartet is an 11-minute work in three movements written for and dedicated to the Cleveland Quartet. The piece was composed at Token Creek, Wisc., during the winter of 1984 and was premiered on October 11 at the Corcoran Gallery in Washington.

Also on the program will be Beethoven's Quartet in D, Op. 18, No. 3, and Dvorak's Quartet in F Major, Op. 96, "American." This last piece was featured in a recent Pro Arte Records release by the quartet. Their previous recordings on the RCA label, which include the complete cycle of the Beethoven quartets, have received seven Grammy Award nominations and Best of the Year awards from Time and Stereo Review magazines.

Internationally recognized, The Cleveland

Quartet consistently receives high praise from music critics. A typical review, excerpted from The Boston Globe, said: "...second to none... string quartet playing doesn't come better than this." They have appeared at the White House for a presidential inaugural concert, on local and national television, and were the first classical artists to perform on the Grammy Awards telecast.

Founded at the 1969 Marlboro Music Festival. the Quartet since has toured the world annually, presenting almost 100 concerts each year. Through the generosity of the Corcoran Gallery of Art, the quartet plays on a rare set of Stradivarius instruments formerly owned by Paganini. The quartet's members—Donald Weilerstein, violin; Peter Salaff, violin; Atar Arad, viola; Paul Katz, cello-are on the faculty of the Eastman School of Music and make their summer home at the Aspen Music Festival.



November 6-17

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 announcment 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

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

lations, and dealing with emergencies.

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

Events of Special Interest

Colloquium on Apartheid* - Provost's Office Institute Colloquium Committee Program, Nov 6-7. Nov 6: Keynote Address: The Battle for South Africa – Dr. Nthato Motlana, chairman, Soweto Committee of Ten and the Soweto Civic Ace, founder of Operation on Hunger, a tion Committee, founder of Operation Hunger, and head of a private hospital, 3:30-5pm, Kresge Auditorium; Reception – 5-5pm, Kresge Auditorium; Workshops: The Myth of South Africa's Strategic Minerals – Prof Joel Clark, materials systems, MIT, Senior House, 7:30-9:30pm; Immorality, Ineffectiveness, and the Illegality of Absolute Divestment – Contrasting Views Prof Roy Schotland, law, Georgetown University Law School & Robert Zevin, vice president, United States Trust Company, Ashdown House, Discussion with Motlana, McCormick Hall, 7:30-9:30pm. Nov 7: What Can and Should Americans Do About South Africa? – Panel discussion with Prof Shirley Chisholm, political science, Mt Holyoke College & Prof Shirley Chisholm, political science, Mt Holyoke College & Prof Shirley Chisholm, political science, Mt Holyoke College & former member of Congress; Prof Willard Johnson, political science, MIT; Dr. Nthato Motlana, keynote speaker, John Reed, chairman, Citicorp; Gretchen Ritter, grad student, political science, MIT; Johnny Makatini, US Representative of the African National Congress; William Jacobsen, Working Group on South Africa, US Dept of State, moderator-Prof Robert I. Rotberg, political science and history, MIT, 2:30-5pm, Kresge Anditorius, Discourations, 6:30 Syn., student lights resource. Auditorium. Discussions — 6:30-8pm, student living groups, Mr. John Reed, Ashdown House; Prof John Hildebidle, Prof Charles Stewart, Baker House; Prof Judah Schwartz, Prof Charles Weiner, Bexley Hall; Prof Louis Bucciarelli, Prof Carl Kaysen, Delta Psi (No. 6 Club); Prof James Higginbotham, Prof Dan Osherson, East Campus; Prof Alan Hatton, Ms. Gretchen Ritter, MacGregor House; Prof Kenneth Manning, Prof John Parsons, Next House (500 Memorial Dr); Prof Willard Johnson, Prof S. Jay Keyer, Senior House; Dr. Louis Menand III, Prof Garth Saloner, Phi Kappa Sigma, Sigma Chi, Theta Chi.

Scientific Symposium in Honor of Prof Irving London** presentations by alumni of Harvard-MIT Division of Health Sciences and Technologies, Thurs, Nov 7, 8:30-12noon, 2-5:30pm, Whitehead Institute Amphitheater, 9 Cambridge Ctr.

Seminars and Lectures Wednesday, November 6

Second Harmonic Generation as a Surface-Specific Probe** - M. Loy, IBM, EECS/RLE Semin Quantum Electronics, 11-12noon, Rm 36-428.

Jewish Lab: Jewish Conversation** - Rabbi Dan Shevitz, MIT Hillel Seminar, 1-2pm, Hillel, W2a.

The Integration of Energy Conscious Design Principles and Architecture* – James Widder, project architect, William Rawn Associates, Joint Program for Energy Efficient Buildings and Systems Seminar, 1-2pm, Rm 1-214. Bag lunches

A Systematic Treatment of Earlier Nodal Methods Using the Analytic Nodal Method** - Winston H.G. Francis, in Nuclear Engineering, 3-4pm, Rm 24-213.

How Political Economy Became the Modern Science of Economics** - Morton Horwitz, Harvard Law School, Dept of Political Science Forum on the American Political my, 3pm, Rm E53-482.

Light Water Reactor Innovation Through System Redesign: Overview* - Poon Hyun Seong, grad student, Dept of Nuclear Engineering Seminar, 3pm, Rm 24-114.

Computer Aided Thermodynamics** - Gilbert Russo grad student, Mechanical Engineering Thermodynamics Seminar, 4pm, Rm 1-114. Coffee, 3:30.

Deep Structure of the Continents** - Prof Tom Jordon, MIT, Dept of Earth, Atmospheric, and Planetary Sciences Colloquium, 4-5pm, Rm 54-915. Tea served, 3pm, Rm 54-923.

L'Espace Dans L'Oeuvre d'Henri Matisse* - Christophe Lecuyer, visiting lecturer, Ecole Normale Superieur, Paris, Foreign Languages and Literatures Section lecture in French on cept of space in the works of Henri Matisse, 4:30pm, Rm companied by slides of the artist's work.

Gas Transfer Across Air-Sea Interface: Experimental Results and Parameterization; Application to carbon dioxide uptake by the ocean* – Laurent Memery, MIT, Oceanography Sack Lunch Seminars, 12:10pm, Rm 54-915.

Molecular Dynamics Approach to Huntinton's Disease**

- Robert Helf, PhD candidate, Radiation Science and Tedinology Doctoral Seminar, 4pm, Rm 24-121.

Thursday, November 7

TBA** - Kurt Anstreicher, Yale University, Operations Research Seminar, 4pm, Rm E40-298.

Polyanhydride Drug Delivery Systems** – Dr. Kam Leong, Dept of Applied Biological Sciences Seminar, 4-5pm, Rm E25-202.

Quark Confinement and Nuclear Dynamics** Ernest Moniz, MIT, Physics Colloquium, 4pm, Rm 26-100. Refreshments served, 3:30pm, Rm 26-110.

Science and Ideology* - Prof Ivan Supek, University of Zagreg, Yugoslavia and the Institute of the Philosophy of Science and Peace, Center for International Studies Seminar 4-5:30pm, Rm E38-615. Prof Victor Weisskopf, Institute Pro

Electronic Media and the First Amendment* – TBA, MIT Communications Forum Seminar, 4-6pm, Rm E15-070.

Molecular Structure and the Control of Ductile-Brittle Behavior in Polycarbonates* – Dr. Robert Bubeck, Polymer Materials Science, Dow Chemical Co, Program in Polymer Science and Technology Seminar, 4pm, Rm 4-145. In-fo: Rosalie Allen, x3-3115, Rm E19-356.

Identifying Common Writing Problems** - Writing and Communication Center English as a Second Language workshop, 4:15-5:15pm, Rm 14N-317.

Current Problems, Trends, Developments and Proposed Solutions for US-Flag Bulk Shipping* – Philip Shapiro, vice president and general counsel, Apex Marine Corp, MIT International Shipping Club Industrial Seminar, 4:15pm, Rm E51-140. Lecture followed by question and answer period.

Friday, November 8

Constructive Uses of Aircraft Catastrophes* – Jerome Lederer, former director of safety, NASA and CAB; founder and first president, Flight Safety Foundation; con-sultant to Nuclear Regulatory Commission, Flight Transportation Laboratory Seminar, 10-11am, Rm 33-208

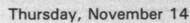
Design Considerations for Communications Satellites* – Leo Stoolman, director, Engineering, Space and Communications Group, Hughes Aircraft, Aeronautics and Astronautics Seminar, 12noon, Rm 33419.

Cross-Flow Filtration of Blood and Other Cell Suspensions** - Norma Ofsthun, Chemical Engineering Seminar, 2pm, Rm 66-110.

Cyclic Calcination and Recarbonation of Calcium - Derek Mess, Chemical Engineering Seminar, 3pm, Rm 66-110.

A Model for the Dispersion of Methyl Iso-Cyanate Arising from the Bhopal Leak* – M.P. Singh, Indian Institute of Technology, New Delhi, Quasi-Biweekly Seminar Series, 4pm, Rm 54-915

Icosahedral Alloys: Crystals, Quasicrystals, or Metaallic Liquid Crystals?* – Prof Paul Heiney, University of Penn-sylvania, Center for Materials Science and Engineering Collon, 12:15pm, Rm 12-132, lunch provided at noon. Call Kathy



Airline Deregulation: Is It Working?* - Dr. George W. James, president, Airline Economics, Inc; former senior vice president, Economics and Finance, Air Transport Assn of America, Flight Transportation Laboratory Seminar, 23:20m. Pp. 23:212.

Problem Reformulation for Mixed 0-1 Linear Programming by Variable Redifinition with Applications to Multi-Item Capacited Lot-Sizing** – R. Kipp Martin, University of Chicago, Operations Research Seminar, 4pm, Rm E40-298.

One-Dimensional Conductors** - Prof Marc Kastner, MIT, Physics Colloquium, 4pm, Rm 26-100. Refreshments serv-ed, 3:30pm, Rm 26-110.

Application of Pseudo-Latex Technology to the Prepara-tion of Cellulose Acetate Latices, Semi-Permeable Mem-branes and Elementary Osmotic Pumps** – Dr. Christian Bindschaedler, Dept of Applied Biological Sciences Seminar, 4-5pm, Rm E25-202.

The Impact of Divestiture* – Lisa Rosenblum, NY Public Service Commission; Paul Levy, Mass Dept of Public Utilities; Gayle Ruedi, AT&T Customer Services, MIT, MIT Utilities; Gayle Ruedi, AT&T Customer Services, MT Communications Forum Seminar, 4-6pm, Rm E15-070.

Differential Migration: A Forty-Year Perspective* - Prof Michael J. White, Princeton University, MIT-Harvard Research Seminar on Migration and Development, 4-6pm, Har-vard Ctr for Population Studies, 9 Bow St.

English Verb Tenses** – Writing and Communication Center English as a Second Language workshop, 4:15-5:15pm, Rm 14N-317.

Organizational Issues in the Management of Innovation, Using Lotus as a Case Study** – Mitchell D. Kapor, co-nucler, chairman of the board, and chief executive of-ficer, Lotus Development Corporation, Sloan School of Management Distinguished Speaker Series, 4:30pm, Rm V81 200

Women in the South African Liberation Struggle* – Nomazizi Sokudela, African National Congress, MIT Womens Studies Freedom, Fiction Family: Black Women Today Series, 8pm, Rm 34-101.



Falling leaves at Hayden Library.

-Photo by Calvin Campbell

Monday, November 11

The Art of Biography: A Panel Discussion of the Biographer's Craft* – Justin Kaplan, Pulitzer Prize win-Biographer's Craft' – Justin Rapian, Puniter Prize win-ner, Walt Whitman: A Life; Michael Scammell, writer and translator, Solzhenitsyn, a Biography; Cynthia Wolff, MIT Class of 1922 Professor of Literature, Emily Dickinson, MIT Writing Program Discussion, 8pm, Rm 4-163.

Tuesday, November 12

Slowly-Varying Wave Drift Force in Short-Crested Seas** M.H. Kim, ocean engineering, Civil Engineering/Ocean Engineering Informal Hydrodynamics Seminar, 3:30pm, Rm

Symbolic Verification of Hardware Design** – Harry G. Barrow, Schlumberger Palo Alto Research, CAS, Palo Alto, CA, VLSI Seminar, 4pm, Rm 34-101. Refreshments serv-

Spectral Element Simulation of Flow in Grooves* - Prof. A. Patera, Dept of Mechanical Engineering, Gas Turbine Laboratory Seminar, 4pm, Rm 31-161. Refreshments served.

Optical Properties of Diluted Magnetic Semiconductors*
- Prof A.K. Ramdas, Purdue University, Francis Bitter National Magnet Laboratory Seminar, 4pm, Rm NW14-2209. Refreshments served, 3:30pm.

Supervisory Control of Discrete Event Systems: An Overview* – Prof Peter Ramadge, Electrical Engineering Dept, Princeton University, Laboratory for Information and Decision Systems Seminar, 4pm, Rm 37-212.

The Linguistic Relevance of Tree Adjoining Grammar* -Prof Aravind Joshi, Dept of Computer and Information Science, University of Pennsylvania; Prof Anthony Kroch, Dept of Linguistics, University of Pennsylvania, Cognitive Science Seminar Series Program #3, 7:30pm, Rm 34-401. Commentary by Prof James Higginbotham, Dept of Linguistics, MIT. Struck Abner, Dept of Linguistics, MIT. MIT; Steven Abney, Dept of Linguistics, MIT

Wednesday, November 13

Industrial Policy, Ideology and the End of the World** – Robert Reich, Kennedy School of Government, Harvard University, Political Science Dept Forum on the American Political Economy, 10am, Rm E51-332.

Laser Radar** - M.J. Yoder, W.J. Schafer Assoc, EECS/RLE Seminar on Optics and Quantum Electronics, 11-12noon, Rm 36-428

Jewish Lab: Jewish Conversation** - Rabbi Dan Shevitz, MIT Hillel Seminar, 1-2pm, Hillel, W2a.

Formation of Continental Crust, 2.7 Billion Years Ago, in the Superior Province, Canada: Evidence from Nd Isotopes and Trace Elements** – Dr. Steven Shirey, Dept of Terrestrial Magnetism, Carnegie Institution of Washington, Dept of Earth, Atmospheric, and Planetary Sciences Colloquium, 4-5pm, Rm 54-915. Tea served, 3pm, Rm

Nautical Archaeology: The Turkish Exchange Johnston, curator, Marine Dept, Peabody Museum of Salem, The Ditty Bag Series of Maritime Evenings, 7pm, MIT Museum. Results of an investigation of the oldest known shipwreck (1400 BC). Light refreshments follow

On the Interaction Between the Wind-Driven Circulation and the Thermohaline Circulation: A Simple Model* –
Paola Cessi, MIT, Oceanorgraphy Sack Lunch Seminars, 12:10
pm, Rm 54-915.

Friday, November 15

Nazi Doctors: Genocide and Moral Schizophrenia* - Dr. Robert Jay Lifton, psychiatrist, author and professor at CUNY, MIT Hillel/Religious Counselors seminar, 12noon, Rm

Combined Land and Sea Operations in the New Transportation Environment* – Robert Fahey, senior vice president, Sea-Land Corporation, Center for Transportation Studies Luncheon Seminar, 12:45-2pm, Student Ctr Mezzanine Lounge. Optional luncheon, 12-12:45pm. Luncheon fee:

Soot and PAH Formation in a Well-Stirred Reactor** -Craig Vaughn, Chemical Engineering Seminar, 2pm, Rm

Dynamic Behavior of Heat Exchangers** - Prof Richard Dolezal, University of Stuttgart, Chemical Engineering Seminar, 3pm, Rm 66-110.

Quantum Interference of Two Atoms Radiating a Single Photon** - Alain Aspect, Ecole Normale Superieure, Paris, Laser Research Center/George R. Harrison Spectroscopy Laboratory/Research Laboratory of Electronics Sp on Modern Optics and Spectroscopy, 3:30pm, Rm 37-252. Refreshments served, 3:15pm.

ICRF Modelling on Tokamaks* - Dr. Cynthia K. Phillips, Princeton Plasma Physics Laboratory, Plasma Fusion Center Seminar, 4pm, Rm NW17-218. Refreshments served,

Will Gas Turbines Compete With Diesels for Ship Propulsion?* - Prof David Gordon Wilson, MIT, MIT International Shipping Club/MIT SNAME Seminar, 4:30pm, Rm 1-190.

Underwater Discovery of the Side-wheel Steamer, MOLSON** – Drs Andre Lepine & Jean Belisle, members, Comite d'Histoire et d'Archeologie Subaquatique du Quebec, MIT Scuba Club/Prof Harold Edgerton-sponsored eting, 7:30-8:30pm, Rm 4-163.

Community Meetings

Al-Anon** – Meetings every Fri, noon-lpm, Health Education Conference Rm E23-297. The only requirement for membership is that there be a problem of alcoholism in a relative or friend.

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

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

Health Care Plans Open Enrollment** - Benefits Office meetings for current personnel, MTT, Wed, Nov 13, 11-1:30pm, Rm 10-105; Lincoln Lab, Thurs, Nov 14, 11-2pm, Rm A-166 Haystack, Fri, Nov 15, 10-11am; Bates Linac, Fri, Nov 15, 1:30-2:30pm.

ecial Health Insurance Meetings for Retired Personnel Special Health Insurance Meetings for Neured Personnel 65 and over or whose spouses are 65 or over, Compensation Office meeting, Tues, Nov 12, 10am-12noon, Rm 10-105; Wed, Nov 13, 2:30-3:30, Linc Cafeteria A. New Medicare/health maintenance organizations now offered at MIT will be explained.

FRAP Meetings** - Compensation Office meetings on the Flexible Reimbursement Account Program, Wed, Nov 6, 9-10am & 10:30-11:30am, Linc L-277; Thurs, Nov 7, 10:30-11:30 & 12-1pm, Rm 10-105; Fri, Nov 8, 10-11am, Haystack Obser-

vatory; Fri, Nov 8, 1:30-2:30pm, Bates Linear Accelerator; Wed, Nov 20, 10:30-11:30am & 12-1pm, Rm 10-105; Thurs, Nov 21, 9-10am & 10:30-11:30am, Line L-277.

MIT Faculty Club** - The Club is open Mon-Fri. Luncheon hours: noon-2pm; dinner hours: 5:30-8pm. For dinner and 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.

Winter Crafts Fair - Tech Community Women will accept ap plications for those wishing to sell at the Winter Crafts Fap-plications for those wishing to sell at the Winter Crafts Fap-Dec 10-11, through Nov 22. For info, call Mary Helen Miller, x3-5225 or 494-5217 eves.

Exercise Class** - Tech Community Women class, Tues, 7:30-8:30pm. Call 494-4825 or 651-3697 for information on

MIT Honorary Matrons Fall Luncheon*** - Thurs Nov 7, 12:30pm, Faculty Club. Science, Technology and a Liberal Education - Dean Ann F. Friedlaender, MIT School of Humanities & Social Sciences. Social hour begins at

Wives' Group** - Morning Group: Nov 6, USS Constitution and Bunker Hill Monument - info: Rhonda Thomson, 924-3848 or Amanda Lamond, 523-1913. Nov 13, Tour of Boston by Christine Cousineau - info: Lynda Merican, 577-9519 or Yong Lee, 494-8829. For all trips, meet at 9:15am, Eastgate (60 Wadsworth St). Children welcome. Afternoon Group: Nov 6, Why the American City Looks So Strange – Gary A. Hack, associate professor & head, MIT Dept of Urban Studies and Planning. All meetings, 3-5pm, Student Ctr Rm 491. Babysitting provided in Student Ctr Rm 407.

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

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

MIT Women's League Informal Needlework Group** -Wednesday lunchtime gatherings, 9:30am-1:30pm, Rm 10-340. Bring sack lunch, projects, swap ideas. Coffee & tea served. Meeting dates: Nov 13, 27, Dec 11, Jan 8, 22, Feb 12, 26, 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).

MIT Activities Committee

MITAC, the MIT Activities Committee offers discount movie

MITAC, the MIT Activities Committee offers discount movie tickets for General Cinema (\$2.50), Showcase and Sack Theaters (\$3.00). Tickets are good 7 days a week, any performance.

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

Messiah. Thurs, Dec 5, 8pm, Symphony Hall. Decorate the mantel with holly and jaunt over to Symphony Hall to complete the holiday trimmings. A Boston tradition since 1815, the Messiah is a holiday treat, this year performed in the 1753 ver-sion. Tickets: \$23.50/pp (reg \$28) and can be purchased in Rm 20A.032

New York City Holiday Shopping Madness. Sat, Dec 7. Visit the "real" Santa at Macy's, splurge at Saks, visit Trump Tower, watch the skaters and admire the tree at Rockefeller Center, and enjoy the city in its holiday trimmings. A full 8 hours on your own in the Big Applie. Bus leaves West Garage, 7am sharp (bring croissants and coffee), arrives at the Milford Hotel in Manhattan approx 12noon; bus leaves for Boston, 8pm. Cost. \$17.50/pp/round trip. Make your reservations NOW, Rm 200.003.

A Child's Christmas in Wales. Wed, Dec 11, 8pm, Lyric Stage. Capture the spirit of the holiday season with Dylan Thomas' tale of a special boyhood Christmas in Wales. Laughter and song complete the warmth of the enchanting story. Cost: \$6.50/pp (reg \$8). Tickets available, Rm 20A-023.

The Nutcracker. Thurs, Dec 12, 7:30pm; Sat, Dec 14, 7:30pm; Sun, Dec 15, 2pm, Wang Center. The Boston Ballet performs this traditional holiday classic in evening of delight and wonder and magical artistry. Tickets: \$19.50pp (reg \$23), available in

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. NOTE: The Renoir exhibit is a separate admission price, and one must designate a day and time one wants to see the exhibit. Please call the Museum of Fine Arts directly for more information. MITAC is not offering Renoir Tickets.

rum of Science Tickets. Available for only \$1. (To see just the museum, pay another \$1 at the door, for a total savings of \$3/person – reg. \$5/person admission). For the China Exhibit, pay another \$5/adults, \$3/children at the Museum, for a total savings of \$1/pp (reg \$7/adults, \$5/children).

City Books are here! Only \$.75 ea. Great stocking stuffers.

Ski-Key Books. Containing valuable discount lift ticket coupons for the greater New England area are coming. Look for them in mid-November.

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

Social Activities

Guest Chef at the MIT Kosher Kitchen* - featuring Middle Eastern cuisine, Mon, Nov 11, 5:30pm, Rm 50-005 (Walker). Cost: \$5.75 validine or cash.

Inter-Hillel Volleyball Game and Brunch** - Sun Nov 17, 10:30am, NU Hillel. For a ride from MIT Hillel, call x3-2982

Table Francaise** - sponsored by Foreign Languages & Literatures Section. Venez dejeuner avec nous et parler fran cais! Votre hote: Christophe Lecuyer. Tous les Lundis, de 12:15 a 13:45, Muddy Charles Room a Walker Dining Hall.

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

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

Annual Pub Party** - Tech Community Women, co-sponsored by the Graduate Student Council, Sat Nov 16, 8pm-midnight, Muddy Charles Pub. Call 641-3697.

Movies

Alexander Nevsky* - LSC Classic Movie, Nov 8, 7:30pm, Rm 10-250. \$1/MIT-Wellesley ID.

Ghostbusters** - LSC Movie, Nov 8, 7&10pm, Kresge Auditorium, \$1/MIT-Wellesley ID.

Sophie's Choice** - LSC Movie, Nov 9, 6:30&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

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Kagemusha** - LSC Movie, Nov 10, 7pm, Kresge Auditorium. \$1/MIT-Wellesley ID.

The Kids Are Alright** - SCC Movie, Nov. 9, 11pm, 2nd fl Student Center (Lobdell). Free/MIT-Wellesley ID.

Scarface** - SCC Movie, Nov 16, 11pm, 2nd fl Student Center (Lobdell. Free/MIT-Wellesley ID.

The Awful Truth* - LSC Classic Movie, Nov 15, 7:30pm, Rm 10-250. \$1/MIT-Wellesley ID.

The Cotton Club** - LSC Movie, Nov 15, 7&10pm, Rm

The Cotton Club** - LSC Movie, Nov 15, 7&10pm, Rm 26-100. \$1/MIT-Wellesley ID.

A Passage to India** - LSC Movie, Nov 16, 8pm, Kresge Auditorium. \$1/MIT-Wellesley ID.

Films From China* - MIT Association of Visiting Students and Scholars/US-China Peoples Friendship Association of New England movies, Nov 17, 1pm, Rm 10-250. Sky Diving (1981), Children of Soong Ching Ling (1985), Fun at the Zoo (1981), Anna Louise Strong (1984), Medical Use of Bees (1982), Generations: A Chinese Family (1985), China Today - Tangshan, (1983). All films are in English. Free. Info: call 491-0577.

Robin Hood** – LSC Movie, Nov 17, 3, 6:30 & 9pm, Rm 26-100. 1/M T-Wellesley ID.

Music

Noon Hour Chapel Series* - Brookline Woodwind Quintet, Thurs, Nov 7, 12:05pm, MIT Chapel. Free.

Noon Hour Chapel Series* - Northeastern Baroque Ensemble recital for countertenor and instruments, Thurs, Nov 14, 12:05pm, MIT Chapel. Free.

Experimental Music Studio: American Digital — New Musical Resources Series, Celebrating American Music Week with recent works by American computer music composers, Fri, Nov 15, 8pm. Tickets: \$6; \$3/sudents & seniors. Preceded by Panel Discussion, musical and critical perspectives on computer music in America, 7pm. For info, call x3-7441.

Guest Artist Series* - The Cleveland Quartet, perform Beethoven, Harbison (Boston Premiere) and Dvorak, Sun, Nov 17, 8pm, Kresge Auditorium. Free.

Chinese Intercollegiate Choral Society? — Meets Suns, 3-5pm, Rm W20-491. Currently rehearsing Chinese folk songs. Free voice lessons and music theory class, 1pm.

MIT Gospel Choir* — Rehearsals: Nov 9, Student Ctr Center Lounge; Nov 16, Student Ctr Center Lounge; Nov 23, Student Ctr Rm 491; Dec 7, Student Ctr Rm 491; Dec 14, Student Ctr Rm 491. All rehearsals, 11-1:30pm. Info, x5-8563 dorm.

Theater

An Evening of One Act Plays* – MIT Dramashop presentation of The Appolo of Bellac by Jean Giraudoux and Half Time at Halcyon Days by Carol K. Mack, Nov 14-16, 8pm, Kresge Little Theatre. House opens at 7:30pm. Followed by critique & coffee hour. Free.

Dance

MIT Ballroom Dance Club Workshops* - Nov 10: Beginning Foxtrot, 12:30-1pm; Intermediate Quickstep, 1:30-2:30pm; Advanced Samba, 4-5pm, Student Ctr Sala de Puerto Rico. Admission: Beginning - \$.25/members, \$.50/non-members; Intermediate - \$.50/members, \$1/non-members; Advanced - \$2/members, \$3/non-members. Info: x5-9171 dorm.

Western Square Dancing* – Tech Squares 10-week class now in progress, Tues, 8-11pm, Student Ctr 2nd Floor. Combined club/class level dancing, Dennis Marsh, club caller & instructor, Veronica McClure, club cuera

Modern Dance Workshop** – Beth Soll, director. Workshop, Regular meetings: Beginning Technique, M/W, 3-5pm, DuPont Ctr T-Club Lounge; Composition/Improvisation, Thurs, 3-5pm, T-Club Lounge; Intermediate Technique, T/Th, 5:30-7pm, Walker 201

Children's Dance Classes** – Pamela Day, instructor. Creative Movement/Modern Dance classes for children ages 3-8. Ages 3-4: Fri, 2:15-3pm; Ages 5-8: Fri, 3:30-4:30pm, West campus location convenient to Westgate. Children do not have to speak English. For info, location, and registration, call Pamela, x3-5791 Tues/Thurs mornings, or 648-4834 eves/wkends.

MIT Folk Dance Club* – weekly dancing-Sundays, International 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.

Yoga* – ongoing classes in traditional Hatha and Iyengar style. Beginners: Mon, 7:20pm; Intermediates: Mon, 5:45pm. For information 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

Hayden Gallery – Private Works by Public Artists: Scott Burton, Richard Fleischner, Kenneth Noland. Examines each of these artist's studio-produced work, for displaying more private environments than their collaborative efforts with architect I.M. Pei in MIT's new Wiesner Building. A major publication will document the pioneering process of this collaboration, through Nov 24.

Sculpture Archives Gallery – Henry Moore: Figures and Forms. Examines one of the most important topics in the British sculptor's work: the figure in relation to the natural setting themsel. In S.

The Reference Gallery - Ping Chong: "Kindness." Artistin-residence, Ping Chong installed an environment contrasting primal spiritual experience with the contemporary technological world, on view through Nov 3. Richard Kriesche: In Residence. This internationally recognized Austrian artist, known for his film, video, and installation work, seeks to understand and comment upon the social conditions which mass communication and the media convey and create, Nov 4 through Dec 29. Hours, M-F, 10-4; Weekends, 1-5pm.

THE MIT MUSEUM

MIT Museum Bldg – Berenice Abbott: Vision of the 20th Century. Five decades of photographs by Berenice Abbot, including portraits from the '20s, images of a vanishing NY City from the '30s and scientific photos illustrating waves and light refraction, through Dec 27. I.M. Pei: Selected Projects, through December. Gjon Mili '27: A Tribute, Born in Rumania, world famous photographer Gjon Mili studied electrical engineering at MIT and pioneered in the use of electronic flash and multiple exposure photographs. In 1938 he began doing stories for Life magazine, ongoing. Of Aerostatic Machines: Early Ballooning in France and Britain, Prints from MIT's Vail Collection illustrate the development of ballooning as a science and sport including fanciful inventions for steering balloons, and aerial views of Paris and other cities, ongoing. Physics at the Laboratory for Nuclear Science: 35 Years at LNS, ongoing. Hours: Weekdays 9am-5pm, Saturdays 10am-dem.

Compton Gallery - Piece By Piece, Works by Italian architect Renzo Piano 1964-84, MIT Dept of Architecture exhibit, Nov 15 through Jan 11, 1986. Opening reception: Nov 14, 4-8pm; the artist will attend. Hours: Weekdays 9am-5pm, Saturdays 10am-4pm.

Kresge Hart Nautical Gallery

Ongoing exhibits: Currier & Ives Prints From the Hart Nautical Collections — Colored lithographs of sailboats, steamboats, clipper ships and whalers. George Owen '94: Yacht Designer — Line drawings and half-models designed by one of the early professors of naval architecture at MIT. MIT Seagrant — A review of MIT ocean research; Collection of Ship Models — Half-models and drawings. Historical view of the design and 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: Rogers Building, Norbert Wiener, Karl Taylor Compton. Community Service Fund, Ellen Swallow Richards. Women at MIT. An overview of the admission of women at MIT. Five photographic panels with text documenting the circumstances that increased the number of women in the classroom since Ellen Swallow Richards. Building 6: Laboratory for Physical Chemistry. Building 8: Solar Energy, Society of the Sigma XI. Building 14N, across from Rm 14N-118.

OTHER EXHIBITS

Humanities Retrospective – Memorial Gallery, Hayden Library Bldg, Documentation of the Humanities at MIT: 1865-1985 and the first 30 years of Course XXI (the humanities major): 1955-1985, through Nov 30.

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.

Monhegan Landscapes — Architecture & Planning Computer Resource Laboratory sequential exhibit of photographs by S. Leland Smith, teacher of filmmaking and photographic darkroom skills at the MIT Student Art Association, through Nov. Hours: M-F, 9am-5pm, Rm 9-514.

Staying Healthy - An exhibition of drawings by the youngest members of the MIT Health Plan, Health Services Center, Atrium Bldg E23, through Nov 22.

Jerome B. Wiesner Student Art Gallery – for 1985 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: Nov 16: Pistol vs Coast Guard, M's Swimming, Charlie Batterman Relays; W's Swimming, Charlie Batterman Relays,

Wellesley Events

Jewett Arts Center* – Isla Negra Tapestries, Chilean genre scnes, organized in collaboration with Wellesley Spanish Dept, through Dec 1. Paintings, Drawings and Sculpture from the Permanent Collection, continuing.

Aequalis Contemporary Chamber Ensemble* – Perform music of Carter, Davidovsky, Ialeggio, and Jeffrey Wood, Nov 6, 4:30pm, Pendleton W Rm 111 Concert Salon.

What Do We Mean by Relationships?* - Jean Baker Miller, MD, Stone Ctr, Stone Ctr Women's Psychological Development: Theory and Application Colloquium, Nov 6, 8pm, Science Ctr Rm 377.

The Sexual Division of Labor and Social Control* – Dr. Jane Humphreys, fellow, Newham College, Cambridge University, Economics Student Advisory Board Lecture, Nov 6, 8pm, Library Lecture Rm.

The State of Women: Making an International Atlas* – Joni Seagen, project director, Ctr for Research on Women, Ctr for Research on Women Luncheon Seminar, Nov 7, 12:30-1:30pm, Cheever House. Bring bag lunch; coffee provided.

Interviewing Skills Workshop* - Catherine Solmssen, associate director, Ctr for Women's Careers, Ctr for Women's Careers Women and the World of Work program, Nov 14. Enrollment limited. Cost: \$25. Registration deadline: Nov 7.

For Colored Girls Who Have Considered Suicide When the Rainbow is Enur* - by Ntozake Shange, presented by the Ethos Black Theater, Nov 8, 8pm, Jewett Auditorium. Free/Wellesley College community & MIT students; \$2.50/advance sales; \$3/general admission. Call 239-2723/6736.

Lecture* - Leticia Shahani, UN Assistant Secretary-General in charge of the Centre for Social Development and Humanitarian Affairs, Slater International Ctr Third World Seminar Keynote Address, Nov 11, 8pm, Jewett Auditorium.

Isla Negra Tapestries* - Marjorie Agosin, assistant professor of Spanish, Wellesley College Museum ArtBreak, Nov 12, 12:30pm & 4:15pm, Jewett Arts Center Corridor Gallery.

Latin American Fiber Arts: A Social Experience* – Judy Bransman, independent artist; Helene Anderson, professor of art, University of Rochester, Spanish Dept Lecture, Nov 12, 4:15pm, Library Lecture Rm.

Interviewing: The Employer's Perspective* – reps from Hill, Holliday, Connors, Cosmopulos, Inc; the Environmental Protection Agency; The Boston Company; and the Harvard School of Public Health, Ctr for Women's Careers Women in Action: The Realities of Working Seminar, Nov 13, 7-9pm, Library Lecture Rm. Cost: \$5 for those with no college affiliation.

The Politics of Literary Criticism and What We Read* – Dr. Mary Anne Ferguson, visiting research scholar, Ctr for Research on Women, Ctr for Research on Women Luncheon Seminar, Nov 14, 12:30-1:30pm, Cheever House. Bring a bag lunch; coffee provided.

Film Seminar on The Killing Fields* - Cambodian student speaks of personal experiences, Slater International Ctr Third World Seminar, Nov 14, 6:15pm, Science Ctr Rm 277.

Concert* - Collegium Musicum, Nov 15, 8pm, Jewett Auditorium.

The Pirates of Penzance* — by Gilbert & Sullivan, Nov 15-17, 8pm, Alumnae Hall. Tickets: \$5/general; \$3.50/Welleeley personnel; free/Welleeley & MIT students w/ID.

Baum Memorial Concert* - Wellesley College Choir, Worcester Polytechnic Institute Glee Club, and Chamber Orchestra, perform music of Henry Purcell, directed by William Herrman, Nov 17, 8pm, Houghton Memorial Chapel.

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

Send notices for Wednesday, November 13 through Sunday, November 24 to Calendar Editor Rm 5-111, before noon, *Thursday*, November 7.







Mr.Kaplan

Mr.Scammell

Dr.Wolff

Biographers to discuss work

The MIT Writing Program will present a panel discussion, entitled "The Art of Biography: A Discussion of the Biographer's Craft" on Monday, Nov. 11, at 8pm in Rm 4-163.

The program will feature writers of biographies:

phies:

—Pulitzer Prize winner Justin Kaplan, whose most recent work is Walt Whitman: A Life. Mr. Kaplan's other works include Lincoln Steffens, A Biography and Mr. Clemens and Mr. Twain.

—noted writer and translator Michael Scammell, author of Solzhenitsyn, A Biography. He is the editor of Soviet Unofficial Art and Russia's Other Writers and has translated books by a number of noted Russian writers.

-MIT Class of 1922 Professor of Literature Cynthia Wolff, who has written the forthcoming Emily Dickinson. Her other books include Samuel Richardson and the Eighteenth Century Puritan Character, and A Feast of Words: The triumph of Edith Wharton.

Associate Professor Bernard Avishai, author of the recently issued book, *The Tragedy of Zionism*, will serve as moderator.

The panel will discuss their own works, considering questions such as: How much does a biographer have to be like his or her subject to be successful? and How does writing about someone else change the author? This program is free to the public, and questions will be accepted from the audience.

FRAPs use before-tax income

(This article was prepared by Michael L. Glover of the Benefits Office.)

"November is an important time for eligible MIT personnel who expect out-of-pocket expenses in 1986 for medical care, dental care, child care, or dependent care," Kerry B. Wilson, assistant director of personnel for compensation, said. Significant tax savings on these expenses are available through MIT's 1986 FRAP program (Flexible Reimbursement Account Program). The signup deadline is Monday, December 2, 1985.

Under Internal Revenue Service regulations, those who miss the deadline will have to wait an entire year to sign up.

The accounts become effective on and apply to qualifying expenses incurred on or after January 1, 1986. Those eligible can sign up for a FRAP Medical-Dental account, a FRAP Dependent Care account, or both. No switching of funds between accounts is allowed.

"You are eligible for FRAP if you are a member of the faculty (including visiting), academic staff, administrative staff, research staff, support staff, or service staff," Wilson explained. "You must also be paid by MIT, and work at least 50 per cent of a normal full-time work schedule with a minimum appointment of three months."

Members of bargaining units are eligible only if their bargaining agreement includes FRAP.

FRAP booklets and enrollment forms were mailed to those eligible last week. The Compensation Office will also hold open FRAP meetings to answer questions.

Wilson gave two examples of expenses that qualify under FRAP:

—Dental Care. If you and/or your family members anticipate spending, say \$600 at the dentist in 1986, you can sign up for a Medical-Dental FRAP account at \$50 a month. Each \$50 will be subtracted from your salary before taxes and deposited to your Medical-Dental FRAP account. (Those paid weekly would sign up for the appropriate amount per week.)

"Then when you receive bills from the dentist, attach them to a FRAP claim form, and send them to the address on the form. In two to three weeks you will receive a reimbursement check for the full amount of the bill, up to the balance of your FRAP Medical-Dental account. Again, no taxes will be withheld from this payment. You can use this reimbursement to pay the dentist's bills," Mr. Wilson said.

"But keep in mind that you must incur expenses equal to your FRAP deposits by the end of the year, or you will forfeit any remaining balance."

-Child Care. Suppose your child will attend a day care center in 1986. You know the cost will be at least \$2,400. If you set up a Dependent Care FRAP, it will only cost you about \$1,800 in take-home pay to deposit \$2,400 in your FRAP account, assuming that your gross salary is approximately \$15,000 a year.

"The \$600 difference is the money you save on taxes. If you are in a higher tax bracket, you will save even more.

"But estimate your expenses carefully, and remember the forfeiture rule required by the IRS."

FRAP meetings will be held today (Wednesday, Nov. 6), 9-10am and 10:30-11:30am, in Lincoln L-277; Thursday, Nov. 7, 10:30-11:30am and noon-1pm on campus in Room 10-105 (Bush Room); Friday, Nov. 8, 10-11am at Haystack Observatory; Friday, Nov. 8, 1:30-2:30pm at Bates Linear Accelerator; Wednesday, Nov. 20, 10:30-11:30am and noon-1pm on campus in room 10-105, and Thursday, Nov. 21, 9-10am and 10:30-11:30am, in Lincoln 1977.

Forum to probe financial options

"Financial Options in Uncertain Times," the sixth annual entrepreneurial workshop of the MIT Enterprise Forum will be held Saturday, Nov. 16, at MIT.

Examined will be areas which influence financial operations and liquidity, including sources of capital; users of capital; the chief financial officer and financial management; structuring a deal; timing of an initial public offering; the Securities and Exchange Commission, Internal Revenue Service and external factors; funding a start-up; non-equity sources of capital, and selecting financial partners.

Speakers and panelists include: Constantine E. Anagnostopoulos, Monsanto Company; Gordon B. Baty, Wormser Engineering; Joseph J. Caruso, Cyborg Corporation; Thomas F. Farb, Symbolics, Inc.; George N. Hatsopoulos, Thermo Electron Corporation; Alan Jacobs, Ladenburg, Thalmann & Company, Inc.; Sandra L. Kurtzig, ASK Computer Systems, Inc.; Pamela F. Lenehan, First Boston Corporation; and Linda S. Linsalata, Investments Orange Nassau.

Also, Edwin M. Martin, Jr., Hale and Dorr; Robert C. McCray, Cirtronics, Inc.; Arnold L. Mende, The Genesis Group; Lawrence S. Nannis, John J. Hurley & Company, Inc.; Kenneth H. Olsen, Digital Equipment Corporation; Robert M. Pozzo, entrepreneur, investor; Stanley R. Rich, Venture Resource Associates; Raymond S. Stata, Analog Inc.; Howard S. Stevenson, Harvard Business

School; James L. Woodward, Iris Graphics, Inc.; G. Mead Wyman, Lotus Development Corporation and David M. Zarem, Frontier Associates.

Registration materials for the workshop are available by calling the MIT Enterprise Forum in the Alumni Center (Rm10-110) at x3-8240. Full fee scholarships to the workshop have been made available to a limited number of MIT students.

The MIT Enterprise Forum, an entrepreneurial business analysis clinic organized under the auspices of the MIT Alumni Association, offers businesses at a critical stage of development an opportunity to obtain counsel from experienced experts on possible steps to take to achieve their goals. The forum's programs, directed by leading business executive volunteers are open to the general community.

The forum also holds monthly clinics at which chief executive officers present their business case to a panel of selected professionals, who donate their time and expertise. Each presentation is open to the public and is free of admission charge. It also conducts start-up venture counselling sessions and publishes a monthly newsletter.



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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 accomanied by full name and extension. Perpanied by full name and extension. Persons who have no extensions or who wish to list only their home telephones, must come in person to Rm 5-111 to present Institute identification. Ads using extensions to the state of the st sions may be sent via Institute mail. Ads cepted over the telephone.

Deadline is noon Thursday before

For Sale

Hcky eqpmnt: skts szes 5½, 6, 6½, helmt, shldr pads, pants, supr prices. John, x8-2001 Draper.

Studio bed cvr & bolstrs, makes twn bed into couch, orange crshd velvt, cstm-md nw, \$90, now \$30, like nw. Jan, x3-6966.

Lrg canvs bike panniers, hld 2 bags of groceries, \$10. Elana, x3-2380.

Gemini brd for H/Z-100, makes sys IBM PC cmptbl, \$525. John, x7345 Linc or 861-7971.

K-sz wtrbed, \$150; walnt-staind pine frm w/mttrss, linr, htr & sheets, kp wrm this wntr. Kim, x3-1740 or 242-0804 eves

TI-59 calcltr w/prntr, math module, \$200 or bst. Perry, x3-4367 or 666-9813.

Cordlss phone & AM/FM clock radio com bo by Radio Shack, stll in bx, \$100; DP300 rowr/exrcise sta, perf cond, \$100. Michael O'Connell, x3-3525.

Windsrfr, '84 F2 Lightning, exc cond, adjstbl boom & mast, rectrctbl daggrbrd, dacron/mylar, 6.0m sail. Ned, x8-5168

Wd frm storm wndws: (6) 31" Wx58" H: (1) 28" Wx46" H; (2) 25" Wx42" H; all gd cond, \$10 ea or bst. Dave, x3389 Linc.

Pr Goodyear Suburbanite snw trs, sz F78-14, bias-ply, mntd on rims, dynamiclly balned, exc cond, usd 1 wntr (less than 4K), \$60. Len, x8-2714 Draper or

Reclining chr, lt green, \$75. Call 646-4207

Campng eqpmnt: Eureka Timberline 2 persn tent; Camptrails Summit int frame bckpck, bth exc cond, \$75 ea. Call 497-1479 aftr 5pm.

BMC grn video mntr, BM-12EU, compsite input, nw cond, \$90. Martha, x3-7948.

Acoustic Research trntbl & AR stereo amp, nvr usd, \$75. Eleanor, x7624 Linc.

AM/FM radio w/2 rear spkrs, orig eqpmnt

remvd frm nw Ford Escort, \$45. P. Lee, x3-8325 or pref 861-9829.

CCM Mustang hcky skts, sz 7 (shoe sz 8), hrdly usd, bought for \$75, askg \$45 or bst. Call 735-8370 eves or early ams.

Elec htrs, \$8 & \$18; Scand Desgn teak stereo cab, \$65; AT&T phones, \$10 & \$20; Singer Fashion Mate w/tbl, nw cond, \$150; Westinghouse sewng mach w/tbl, \$75; 2 Westbend humidfr, nw \$75, usd \$45; end irns & grill, \$15; AM/FM stereo \$40; end I'ms & grin, \$45; coo-coo clck, \$10; L.L. Bean canvas bag, \$15 (retls \$40); London Fog, L's sz 12-14 reg, \$50. Call x3-3175 or 332-8251.

Lge wht tailored drapes, 2 can be divded into 4 w/no sewng, grn, yllw, pnk ribbn brdr, \$40 or bst. Call 868-5140 before

KLH Model 20 cmpct stereo systm w/receiver/Garrard trntbl, 2 2-wy spkrs 22" x8" x12", solid wlnt cbnts, FM tuner nds wk, \$60. Cynthia, x3-8982.

Mercedes wheels for car models 200-240, \$20 pair. Patrick, x3-4337

Suede coat, medium to drk brown, drk brown sheepskin lining, sz 10, like nw, seldom wrn. \$250. Call Irene. 776-2085.

Couch. \$25: cnvrtbl couch. \$100: cffee tble, \$10; wd fldng chair, \$10; 2 chrs, \$5, \$2; 2 B&W TV 13", \$50 each; dining tble, \$30; 15-yr-old stereo, wks fine, cass, trntbl, spks, \$25; wd shlvs, mlk crts, ktchn supplies, beding, bst, neg. Bernard, x3-1911, 876-8076, eves

2 D78-14 Firestone snow tires, \$35 for oth. Call x3-7290.

Carpet, 12' x13', lgt brwn, very good cond, w/padding, \$50, GE toaster oven, \$20. Tom, x-8-2909, Draper.

Admiral freezer, 6.2 cf. like nw. \$100. Call x2579, Lincoln, or 277-5481, eves.

Tournament soccer football tble, good cond, tournament model, some spare prts, \$250 or bst. Dave, x3929, Lincoln, or 933-2514, eves.

Boots, 9-West, W's sz, 71/2, tan, 1 thr, almost nw, were \$60, asking, \$20. Betsy S., x3-2639 or 868-6289.

sewood love seat w/red upholstery, \$350; whte kit table w/4 blue chairs, \$50; nrly nw desk, \$100, 2 hrdly used med frm twn beds w/frmes, \$80 each. Call 891-5205 aft 6pm wkdys or anytime weekends

Vehicles

'70 Malibu, 86K, nw brks, exh, batt, trs, frnt end wrk, inspetn stekr thru 9/86, mech exc, \$550. Jennifer, x3-5042.

'70 Ford Maverick, 2-dr, 6 cyl, nds bdy wrk, rns well, snw trs inc, \$350. Roberta, x3-0422 or 926-0009 eves.

72 Ford LTD wgn, rns well, \$200 or bst Waldemar, x3-6894 or 577-9765 lv mssg.

73 Plymouth Fury III, V8, rns well, for quick sale, \$500. Vic, x3687 Linc.

'73 BMW 2002, bdy rstrd, metllc burgndy, nw cltch, resontr, batt & muff, eng strng & int gd cond, \$3,000 or bst. Eric, x3734

74 Ford LTD, Texas car, no rst, 99k, rns well, \$1200. Call x3-4679 or 244-8163.

74 VW Superbeetle, apprx 70k, rns well, some rst, \$600 or bst. Call 926-2604.

'76 Toyota Corolla, 2-dr, brwn, 4 cyl, rear wndw dfrstr, AM, hi-bck frnt buckt reclning seats, carptd, std trans, orig ownr, \$900. Call x3-6256.

76 Fiat 128, 2-dr, bl, 74K, nw trs, gd mech & bdy cond, \$900. Mark, x3-2215 or Jim, 1-745-3505 eves.

'76 Dodge Dart, 4-dr, 4 rad trs, nw brks rns well, \$800. Call x3-7430 or 965-9721

77 Dodge Aspen sta wgn, 6 cyl, auto, a/c, AM/FM, 107K, \$700. Joe Z, x8-2682 Draper.

'77 Dodge Aspen, 6 cyl, auto, ps, 4-dr, AM/FM cass stereo, nw tires, exc cond, no rst, \$1500 or bst. Call 527-8724, eves,

*77 Honda Accord, must sell, 1rst ownr, maintenance history, rns well, \$1300 or bst. Call x3-6997 or 489-4150.

'78 Mercury Zephyr, 94K, nw eng, rns well, mst sell, \$1,000. Hide, x3-8709 or x5-9806 dorm.

'79 Datsun 210, 4-dr wgn, rns well, gd cond, 75K, AM/FM, rent trs, wtr pmp, batt, sheks, \$1,900. Call x3-2772 or 396-4221 eves

'79 Honda Civic auto htchbck, nds bdy & g wrk, \$700 or bst. Tom, 569-5778, 6-8pm.

'79 Chevy C-10 pck-up w/cap, snws, nw trs, 63K, exc cond, \$3,700. Darryl, x7505 Linc or 692-6650 (Westford).

Fiat X1-9 cnvrtbl, 5-spd, a/c, AM/FM/cas ss, 40K, exc cond, \$2,100 or bst. Call 926-8472.

'79 Ford Pinto, stnd shft, nds wk, \$900 or bst. Denise, x3-6286

'80 Mazda 626, 2-dr cpe, 5-spd, rstprfd, 94K, AM/FM stereo, rads, exc cond, v reluctnt sale, \$3,100. Jill, x3-6706, 5-6pm

'80 AMC Spirit Hatchback DL, 80k, std shft, exc cond, ps, pb, AM/FM stereo, must sell. \$1850 or bst. Karem. 876-8148.

'81 Buick Skylark, a/c, ps, pb, auto, wh, 8-mo extnded brkdwn warrnty, exc cond, \$3,900. Jon, x3-6802 or 494-1534.

'81 Olds Cutlass wagon, ps, pb, a/c, AM/FM stereo, cloth seats/vinyl back, wire whl covrs, chap lock, exc cond, low mil, 45k, orig ownr, custom ordered, \$4500. Call 3-5316, 964-6164, eves.

'83 VW Quantum, turbo diesl, 22K, AM/FM/cass stereo, 35mpg, exc cond, \$7,000. Prof R. Ballinger, x3-5118 or

'84 Chevy Cavalier htchbck, bl, AM/FM/cass, sunrf, clth int, 5-spd, tlt sterng, rear dfrst & wipr, & more, exc skg \$5,500. Marianne, x3-1994 or 1-597-5610 eves/wkends.

'84 Toyota xtra cab 4x4, AM/FM/cass, red, cln int & ext, exc cond, askg \$7,200. Lisa, x3-7421 or 963-6456 eves.

Housing

Boston, 2BR duplx condo on St Btlph St, 1½b,l frplc, hdwd flrs, W/D, d&d, sunny, steps to Hrvd/Dudley bus, Symph T, \$210,000. Call x3-6995.

Lexington, faculty hse for rent, 9 rms, contemporary dsgn on wd lot, community pool, exc. schools, Jan-June 1986, \$1000 per mo. Call 862-9462.

Everett, lrg 5 rm apt, quiet street, wall-towall, mod kit and bath, porches, nr trans, \$575 no util, sec dep and ref, req'd. Sharon, x3956, Draper or 387-3390 aft 5.

Exch 3 br apt in Jerusalem for same or house nr Boston, Jan '86, 2 yrs or less, car

exch poss. Andrea x-8804.

Wanted

Prsns w/free days or a blck of AM/PM hrs, who enjoy being w/pre-schl chldrn, & would like to earn a few xtra \$, to be on our sub teachr list. TCC, x3-5907,

Roommates

Quiet, non-smkng prof M to shr 2BR Arlington apt w/29 yr old postdoc, \$375/mo inc ht, on bus line to red line. Mark, x3-4524 or 861-2807 or 643-0046 eves

M/F nded to shr v pleasnt Winchester apt, prkg, \$365+ 1/2 utils. Jacqueline, 729-1629 eves.

Rm w/pri bath in beautiful apt in Coolidge Crnr, Brookline area, \$75 wk, avail Nov. 12. Eli, x3-2052.

Carpool

Rd wntd, Everett-MIT, 8:30-5, will pay. Mary Ann, x3-1319/1329.

Rd wntd. Rte 1 Saugus-Draper, 7:30-4:30 or 8-5. Tina, x8-4074 Draper.

Lost and Found

Missing, borrowed or misplaced, a number of 2 x 2 slides, some in color or human rehabilitation engineering, in cluding oralle and mobility aids for the blind, artificial limbs — the Boston and Utah arms, the MIT knee and on orthopaedic biomechanics. May be in gray Carousel projector tray. R.W. Mann, x3-2220. cluding braille and mobility aids for the

Miscellaneous

Willing to trade nw gas dryr (nvr usd) for any elec dryr in gd wrkng ordr. Tricia, x3-0514 or 926-2358.

Wdn bxes, all shapes & szes, can be usd for tools, instrmnts, etc, grt choice. Michael/Paul, x3-4216/4209, 8am-4pm.

2 Renior Exhibit tickets, 1pm, Nov 13, \$5 each. Penny, 576-3794 or 603-522-3144

Exp wordprocessing for reasonable rts. Andrea, 232-8523.

Illustrations: technical, medical, layout and design service, sample portfolio avail. Call 542-8817.

Hayward lot (medical) stckr in exch for Albany. Carol, x3-6286.

Cambridgeport mother of an 8-yr-old and 2-month-old will give affectionate care to children in her hm thru Jan. Call Glynis,

Surplus Property

The Property Office has the following ex-cess MIT equipment for transfer within MIT. Unless noted, items are at the Equipnt Exchange, 224 Albany St, open Tu & Thurs, 11am-3pm. After 30 days, items are sold to individuals. Where noted, bids and offers go to Tom Donnelly, Property Disposal Officer, E19429, x3-2779, with envelope so marked Always reference case number on envelope. MIT reserves the right to reject any and all bids.

Case 1537 - For sale by sealed bid. Bids to be received by 3pm, Nov 13. To inspect call Tom Donnelly, x3-2776 or Sharon Feldstein, x3-7762: Digital word process-ing system, mdl WD82B-AK, w/Diablo daisy wheel printer, 2 VT-100 terminals & 4 RX01 floppy disk drives.

Case 1599 - Transfer of funds required. To inspect call Janet Romaine, x3-3470: Lanier word processor w/disk drive &

POSITIONS AVAILABLE

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

This list includes all nonacademic This list includes all nonacademic jobs currently available on the MIT campus. Duplicate lists are posted on the Women's Kiosk in Building 7, outside the offices of the Special Assistants (10-215, 10-211) and in the Peronnel 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 co tinue to contact their Personnel Officers to apply for positions for which they feel they qualify.

3-1594

3-4278

Oveta Perry

Dick Higham

Virginia Bishop

Appointments:	
Therese McConnell	3-4274
Ken Hewitt	3-4267
Kenneth W. Chin	3-4269
Sally Hansen	3-4275
Appointments:	3-4268
Kim Bonfiglioli	3-4076
Annointments:	

Administrative and Academic Staff

Nancy McSweeney

Analyst Programmer I, Administrative Systems, to serve computer users through consultation, problem diagnosis, program-ming assistance, documentation, troubleshooting and education on computers. Will provide programming assistance, prepare and/or review documentation for existing and new programs; search for special information on computers, programs and systems; interface with hardware and software suppliers as required to assure efficient installation procedures; participate in professional conferences in omputer science and related activities. May act as group leader in task assignments. A Bachelor's degree in Computer Science or related fields or equivalent combination of education and experience is necessary. Reasonable experience in computer programming or related ac-tivities preferred. Excellent oral, written and interpersonal skills desirable

Staff Writer/Editor, Communications/Resource Development, to work with four other writers in preparing proposals, publications and correspondence in sup-port of MIT's overall fund-raising objec-tives. Demonstrated writing, editing, and

well under often severe time co Bachelor's degree and three to five years of professional writing experience, prefer-ably in a related setting required. Knowledge of MIT and of graphic design/production is helpful. Four nonfiction writing samples, and cover letter explaining interest in position must accompany resume. A85-637

Assistant Secretary for Visiting Committees, Office of the Secretary of the Corporation. The Assistant Secretary will manage and provide staff support to the 27 Visiting Committees of the MIT Corporation. The Visiting Committee structure is the means by which the MIT Cor-poration exercises its trustee responsibil-ity to oversee and support the quality of MIT in education, research and administration. Consisting of 15-20 members trustees, alumni and other individuals each Visiting Committee typically meets once every 2 years to discuss with depart-mental and university officers the particular department's achievements, and ns. The Visiting Committee fice provides a wide range of services in-cluding scheduling meetings, managing communications, arrangements and logis-tics; assisting committee chairs with agenda, meeting plans, and report preparation; and assisting Corporation Officers with selection and appointment of committee members. Qualifications include a Bachelor's or advanced degree or equivalent experience; demonstrated managerial talent and excellent organiza-tional and communication skills; energy, tact and discretion, as well as attention to detail. A highly visible position requiring excellent interpersonal skills. MIT experi-ence preferred. Premium on evidence of good judgment, sense of service, and ability to work under pressure, indepe and as a team member. A85-636

Librarian I, MIT Libraries (Assistant Librarian for Technical Processing, Rotch Library of Architecture and Planning), re-sponsible under the Associate Rotch Librarian, for technical processing in the Rotch Library. Will participate with other librarian staff in reference service and collection development as a subject spe-cialist in one of the areas of architecture or planning. Responsible for supervision of the section head and support staff who perform local processing, acquisitions, binding, and manual and online catalogue maintenance for monographs and serials. Will represent library on the systemwide committee on technical processing. Par-ticipate in traditional and online referservice within assigned subject areas. Selects material and participates in decisions regarding budget allocation, deacquisition, preservation, storage and evaluation of collection. MLS from a ALA accredited library school. Prior preprofes-sional experience preferred, including ex-perience with technical processing. Super-visory experience desirable. Reference and collection development experience desirable. Undergraduate degree in ar-chitecture or planning desirable. Good interpersonal skills essential, C85-166

Project Archivist, Archival/Manuscript Specialist, MIT Libraries, (temporary 2-year position), under the direction of the Institute Archivist, will formulate and test appraisal and collection strategy guidelines for the records of colleges and universities, by undertaking research, surveying collections, recommending col-lecting strategies, and communication with Advisory Group members as appro-priate. Will analyze and describe ac-tivities that take place at colleges and universities, analyze the records documenting those activities, and formulate strategies to effect the creation and retention of records of long-term value. Archival and records management skills will be used throughout this program. A graduate degree plus substantive archival training and experience are required. Ex-perience with research techniques and the ability to communicate clearly in writing are required. Confidentiality, good organizational skills and interpersonal skills essential. Experience in a college or university setting preferred. C85-165

Archival Assistant, Archival/Manuscript Specialist, MIT Libraries (temporary 2 year position), under the supervision of the Assistant Archivist, shares the responsibility for the operation of the Institute Archives by assisting with the daily routines; accessioning, arranging, preserving, boxing and describing a wide valent of achieval and wanuarity materials. riety of archival and manuscript mateririety of archival and manuscript materi-als; performing historical research when necessary to appraise, organize and de-scribe collections; preparing finding aids for collections; answering reference let-ters; serving on the reference desk; helping researchers with the use of books, ar-chives and manuscript collections. A grad-uate degree and archival training and experience are required with an undergraduate degree or graduate degree in neering, computer science or physical sciences preferred. Experience with bibliographic and research techniques are required, as are the ability to communicate clearly in writing, to work systematically, and respect the confidentiality of records. Good interpersonal skills essential.

enysical Plant, to oversee the cleaning others desirable. Experience with data-and support operations of the Institute base management and personal comput-academic buildings. Good interpersonal ers preferred. NON-SMOKING OFFICE skills, ability to motivate subordinates L85-049 Physical Plant, to oversee the cleaning and support operations of the Institute skills, ability to motivate subordinates and a working knowledge of building serand a working knowledge of building services equipment and supplies necessary.

Minimum 3-5 years directly related supervisory experience required. Will be required to work irregular shift. A85-634,

Sponsored Research

Research Specialist (Computer Facil-ity Manager), Research Laboratory of Electronics, to provide support for a large number of single user work-stations centered around Lisp Machines. Will maintain the hardware and software; write supporting programs for speech and lanage-related research, document the programs; help initiate new users; allo computer resources, and participate in research projects. A Bachelor's degree in Electrical Engineering and/or Computer Science, and a minimum of 2 years pro-Science, and a minimum of 2 years programming experience with the Symbolics 3600 Lisp Machine necessary. Excellent interpersonal skills required, interest in speech and language and willingness to work flexible hours desirable. R85-850

Research Specialist (Research Program Manager), Research Laboratory of Electronics, to handle project administration and publication activity for large DARPA research program. Will gather information and prepare periodic reports on several government sponsored re-search projects in automatic speech recog-nition; edit and prepare abstracts, articles and other docum nts for publication and/ or presentation at conferences; coordinate travel and meeting arrangements; distribute materials, and otherwise facilitate collaboration between researchers at MIT and other institutions that form a research consortium; assist in preparing new research proposals; maintain liaison with other MIT personnel, the public and with other MIT personner, the public the press; monitor expenditures, approve purchase requisitions, and insure adherence to budget; hire and supervise undergraduate part-time office help; supervise graduate part-time onice neip; supervise secretary. May assist in transcriptions of speeches and other research activities. Bachelor's degree and a minimum of 3-5 years related experience necessary. Excellent oral and written communication skills, familiarity with computers, and strong interpersonal skills required.

Manager of Computer Services (Research Engineer), Aeronautics and Astronautics, to be responsible for all soft-ware and operations of a facility present-ly consisting of a PE 3242 with array pro-cessor, DEC PDP 11/70, 3 DEC 11/23s, cessor, DEC 1170, 3 DEC 11738, and a net of 12 IBM and Corvus micro-computers. Responsibilities will include all aspects of computer operations, system and applications software, management of student programming staff, assistance to users, and acquisition of new hardware and software. All computers are used in the Gas Turbine Laboratory computer facility dedicated to large scale fluid dynamic calculations, high speed data ac-quisition and analysis, and the real-time entrol of experiments. Requires a strong background in both systems and applica tions programming, graphics, and applied mathematics. Experience with multi-user computer facilities, 3-5 years as a computer professional, and a degree in applied science or engineering are required. R85-846

Technical Assistant, Center for Cancer Research, to perform laboratory research on molecular and cellular analysis of mammalian genes. Will take care of tissue culture of adhesive as well as suspended cells, such as lymphocytes. In addition will work on various types of biochemical preparation and analysis of nucleic acids and proteins, including cloning of mammalian genes by recombinant DNA technique. Will handle mice for in-jection of cells and chemicals and for preparation of antisera. BS and a minimum of 1-2 years of experience in at least some of the techniques described. R85-845

Research Engineer, Energy Laboratory, to be responsible for managing the Lab-oratory's technical support staff and facilities; coordinating of industry consortium activities; initiating of, participating in and supervising of engine-related research activities. Substantial opportunities exist for developing new individual and group research programs. Management and research responsibilities are approximately equally balanced. Current research activities in the laboratory include engine combustion, emissions and fuels requirements, modeling critical engine processes and engine per formance. PhD in Mechanical Engineer ing, or its equivalent and several years of relevant research experience required.

Technical Assistant, Applied Biological Sciences, to use molecular biological techniques to study problems in environmental mutagenesis. Duties will include molecular cloning, DNA restriction analysis and DNA sequencing, in addition to standard microbiological procedures. BS or MS in Life Sciences required. R85-841

Library Support Staff

Library Assistant IV, Rotch Visual Collections-MIT Libraries, to act as Visual Collections Assistant/Aga Khan Archives Processor. Responsibilities will include, under the direction of the Visual Collec tions Librarian, to participate in cata ing slides of architecture, art and urbanism, provide information service to users, and assist in other shared public service duties. As Aga Khan Archives processor, will manage the visual repository of the Program housed in the Visual Collections facility, process collec tions, assist users and fill requests for copy slides. Will eventually input and maintain computerized indexes to the Aga Khan repository using an IBM/AT. High School g aduate or equivalent and a minimum of 2.5 years direct/related experience required. Some knowledge of Islamic architecture preferred. Reading knowledge of one foreign language (Arabic, German, French) essential. Good typing skills and the ability to work with

Secretary/Staff Assistant

Administrative Secretary, Alumni Association, to provide secretarial support for the Regional Director of the Alumni Association. Duties will include assisting the Director with the implementation, co-ordination and administration of alumni-related programs and activities with the western US and Canada. Will tranthe western US and Canada. Will transcribe and type correspondence and general materials; research from various records; prepare and coordinate printing and mailing literature, and file and perform general office procedures. Will interact with alumni, Institute staff, faculty and representatives from outside agen-cies and Institutes. Will serve as primary source of information regarding alumni clubs and programs all within the Director's region in the Director's absence. Will tor's region in the Director's absence. Will assist with special programs and activities including preparing brochures and publicity materials, maintaining invitation lists, and coordinating travel articles.

and a good sense of humor necessary in this busy office. Attention to detail, and good organizational skills preferred. Ex-cellent typing and familiarity with and/or willingness to learn word processing and database system. Minimum 4.5 years direct/related experience required. NON-SMOKING OFFICE B85-055

Administrative Secretary, Center for Technology, Policy and Industrial Devel-opment, to perform complex and diverse secretarial duties with minimal supervision. Duties include complicated tele phone contact, setting priorities, coordination and scheduling of complex appoint ments and travel; typing, proof-reading and producing manuscripts; maintaining and reviewing files and records for opera tion of the office; directing the work of other secretaries, and interviewing candidates for secretarial positions. Must be efficient, well-organized, and have the ability to work with minimal supervision. Excellent typing, word processing, filing and the ability to anticipate actions regarding the Center's operation necessary. Must exercise discretion in obtaining and providing factual and sensitive information. Minimum 4.5 years direct/related experience required. B85-759 tion of the office; directing the work of

Administrative Secretary, Resource Development, to provide secretarial sup-port for two staff members in Leadership Gifts. Duties include transcribing, answering phones, handling complicated travel arrangements, proofreading reports, preparing various forms and cor-respondence. Must draft letters for signatures of supervisors and self. Familiarity with and/or willingness to learn word processing (DECMATE) desirable. Ability to work under pressure and with some overtime essential. Strong organizational skills, attention to detail, and absolute discretion in handling con fidential material required. Minimum 4.5 years direct/related experience required. Knowledge of MIT desirable. B85-773

Sr. Secretary, Laboratory for Electromagnetic and Electronic Systems, to provide secretarial support for two faculty members. Duties will include typing of technical and nontechnical documents and notes, arranging appointments and travel, maintaining files and records, and some administrative duties related to De-partment and Institute committees. Addi-tional duties include the ability and willingness to learn word processing and to develop initiative and independence in the execution of the above duties. Substantial interaction with students and visitors (domestic and foreign) will require a helpful attitude, patience and discretion Minimum 2.5 years direct/related ex-perience required. Technical typing skills or willingness to learn and speaking knowledge of Japanese desirable. B85-063

Sr. Secretary, Chemical Engineering, to provide secretarial support for one pro-fessor and two principal research associates in their academic and research responsibilities. Will compose and type general correspondence, monitor research accounts, coordinate travel itineraries and guest visits, type technical reports and classroom material. Good interpersonal skills and the ability to work independently necessary. Technical typing and word processing (IBM) experience and/or willingness to learn preferred. Minimum 2.5 years direct/related experience required. B85-057

Sr. Secretary, Political Science, to provide secretarial services for two professors, one of whom specializes on South Africa – its history, development, and political systems – and the other who specializes on South America's political and economic development, and the role of religion and social change. Duties will include telephoning, receiving visitors, maintaining files, typing correspondence and other materials. Knowledge of IBM/PC and WordStar or Perfect Writer helpful. Ability to set priorities necessary. Good typing essential. Minimum 2.5 years direct/related experience required. B85-050

Sr. Secretary, Energy Laboratory, to pro Sr. Secretary, Energy Laboratory, to pro-vide secretarial support to Co-director of the Energy Laboratory and other staff. Will type and proofread correspondence, reports and manuscripts from handwrit-ten material using the word processor; make travel arrangements; arrange meetings, and handle appointments. Will handle telephone work both within and outside MIT and work with students. Ex cellent secretarial skills with word pro cellent secretarial skills with word pro-cessing experience or the willingness to learn essential. Flexibility, ability to establish priorities and to communicate with others and meet deadlines necessary. Minimum 2.5 years direct/related experi ence required. B85-048

Sr. Secretary, Aeronautics and Astronautics, to provide secretarial support for 3 faculty and one research ass the Gas Turbine Laboratory. Duties in clude typing and proofreading reports, ex aminations, correspondence and other ma terials from rough draft. Will answer tel-ephones and receive laboratory visitors, maintain files, arrange travel, prepare vouchers, distribute mail, maintain office supplies, issue keycards, petty cash, and prepare and distribute laboratory reports. Will use word processing system on Corvus computer. Knowledge of technical typing essential. Minimum 2.5 years di-rect/related experience required. Ability to work independently and good organizational skills essential. B85-047

Sr. Staff Assistant, Materials Science and Engineering, to provide secretarial support for two faculty members. Duties will include typing technical papers for proposals and talks; conducting faculty searches including assisting with the preparation of candidates' files and forwarding materials to search committee chairman; answering phones; and ordering supplies. Will be responsible for the mail machine and assisting the Ad-ministrative Assistant with correspondence, faculty mailings, and maintenance of departmental audiovisual equipment. Word processing and dictaphone experience essential. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-044

Sr. Secretary, Electrical Engineering and Computer Science – Microsystems Technology Laboratories, to provide support to and under the general direction of the Administrative Secretary, Office of the Director. Duties will include typing, editing, and proofreading memos and correspondence; answering telephones; mak-

Lost: 1 tricolr gold braided hoop earring, vicinity of pool lckr rm/Walker tennis courts on 10/22. Barbara, x3-5259. research skills; high degree of initiative; and ability to work independently and rangements. Formal secretarial training Page 6, Tech Talk, November 6, 1985 preferred. Excellent interpersonal skills

ing appointments, arranging meetings and maintaining calendar. Will coordi nate travel arrangements; maintain files; order supplies. Technical typing of order supplies. Technical typing of manuscripts, proposals, budget and finan-cial statements and presentation materi-als necessary. Will provide coverage for the Technical Manager and technical staff as assigned, and review accounting as assigned, and reverse accounting statements and related reports. 60-65 wpm typing required. Word processing and technical typing essential. Good in-terpersonal skills preferred. Minimum 2.5 years direct/related experience required. B85-041

Sr. Secretary, Electrical Engineering and Computer Science, to perform secre-tarial duties for two faculty members. Will arrange appointments, meetings and travel; check monthly research ac counts; type course material, technical reports and proposals, journal articles and correspondence; maintain filing systems; answer telephones and student inquiries. Word processing and technical typing experience necessary. Minimum 2.5 years direct/related experience required

Sr. Secretary, Materials Science and Engineering, to perform secretarial duties for 2 professors. Responsibilities will in-clude typing classwork assignments, sci-entific papers, proposals, and correspon-dence. Will monitor research accounts, schedule meetings. schedule meetings, order supplies, and arrange appointment schedule. Familiarity with word processing and MIT desirable Ability to set priorities and work independently essential. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-039

Sr. Secretary, Electrical Engineering and Computer Science, to perform secre-tarial duties for 2 faculty members. Duties will include arranging appoint ments, meetings, and travel; checking monthly research accounts; typing cours material, technical reports and proposals, journal articles and correspondence; main-taining filing systems; answering phones, and student questions. Word processing experience and technical typing skills Minimum necessary direct/related experience required.

Sr. Secretary, Urban Studies and Planning, to manage office of professor who is research director for the Center for Real Estate Development, and handle secretarial work for one other professor and two part-time faculty members. Will make travel arrangements and arrange meetings, organize and manage files for research projects, use word processor to type a series of research reports, books and articles which will be revised through several drafts. Additional departmental typing may be requested occasionally Good command of the English language and knowledge of the dictaphone, and editing skills preferred. Excellent typing skills essential. Familiarity with and/or willingness to learn word processing desirable. Minimum 2.5 years direct/re-lated experience required. NON-SMOKING OFFICE B85-034

Sr. Secretary, Center for Information Systems Research, to provide secretarial support for two CISR research associates and handle the CISR Working Paper Series. Will involve frequent contact with managers from private and public sector organizations, as well as with faculty and students from MIT and other universities Will type correspondence and reports from rough draft or dictaphone, using Wang word processor; answer phones; make travel arrangements; prepare high-quality presentation materials, often using Xerox Star workstation. Will process ing Aerox Star workstation. Will process working paper orders and payments; track subscriptions; and maintain inventory of papers. Will be a part of a support team for seminars and the annual conference of CISR. Excellent secretarial skills, word processing, and good interper-sonal skills essential. Ability to handle detail with accuracy, and flexibility important. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE B85-033

Sr. Secretary, Applied Biological Sciences (part-time), to provide secretarial support for secretariat office of international program. Duties will include typing and proofreading correspondence and papers, handling of major international mailings, maintaining database files, copying, ordering supplies, and answering phones. Will aid in coordination of several major conferences per year, including complex travel arrangements, scheduling events, and large mailings. Excellent typ-ing skills and previous experience or willingness to learn word processing and use of the DEC Rainbow computer essential Willingness to assume responsibility and to work under minimal supervision necessary. Minimum 2.5 years direct/related experience required. B85-031

Sr. Secretary, Sloan School of Managethe 1980's Research Program to support the Director and other staff members, pri-marily the Research Coordinator and Program Manager. Will perform secretarial duties including typing correspondence and reports from rough draft, answering s, preparing high quality prese tion materials, and making travel arrangements. Will be a part of a team to arrange seminars and conferences. Re-quires excellent secretarial skills with word processing. Good interpersonal skills and ability to work as part of a team essential. Dictaphone experience required. Some overtime may be necessary. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE

Secretary, Electrical Engineering and Computer Science, to work in the Depart ment's Graduate Office and assist in the coordination and processing of incoming graduate school applications. Will type correspondence from handwritten or typed drafts or via dictation equipment; use IBM memory typewriter for form letters to applicants; assist in preparing large mailings; provide inform assistance via telephone or in person, re inquiries regarding graduate school admissions; act as backup key operator for department's copying machines; monitor postage meter usage; act as backup per-son in the receiving, sorting and distribut-ing of incoming mail for all offices. Will provide additional support as needed.
Willingness to learn an interactive computer system essential. Good typing necssary. Minimum 1 year direct/related experience required. NON-SMOKING OF-FICE B85-056

Secretary/Receptionist, Committee on the Visual Arts (part-time), to provide sec-retarial support for a busy office of several administrators. Will type and pro-ofread extensive correspondence, grant applications, catalogue essays, press releases and minutes Will maintain and releases, and minutes. Will maintain and originate files, answer phones, receive visitors and provide information to the visitors and provide innormation to the public regarding programs. Will handle catalogue sales and distribution, maintain large mailing list, process mail, photocopy and order supplies. Will take minutes at monthly Committee meetings and assist with special projects as assigned. Excellent typing and proofreading skills (60 wpm) and experience with Wang word processor or willingness to learn essential. Excellent interpersonal skills and willingness to work flexible hours necessary.

Minimum 1 year direct/related experience required. NON-SMOKING OFFICE

Office Assistant

Administrative Assistant, Laboratory for Electromagnetic and Electronic Sys-tems, to maintain financial records of laboratory on a monthly basis, maintain per sonnel files and be responsible for the completion of appointment and visa infor-mation; prepare student, hourly and voucher payrolls and, with the supervision of the director, do the staff and secre tarial payroll. Will have shared supervision of secretarial staff. Limited secretari al duties will include meeting and travel arrangements as well as handling of cor-respondence for some laboratory funcons. Minimum 4.5 years direct/related experience required. Background in university administration, acco unting and budgeting and familiarity with both word processing and spreadsheet analysis using microcomputers as well as a demonstrat processing and spreadsh ed ability to work with others effectively ssary. S85-064

Administrative Assistant, Office of Career Services, to prepare recruiting posters, involving catching errors on com pany input, making decisions on material to be used, calling companies for missing data, typing, proofing, and makeup. Will maintain large office library; collect statistical data from the 3 graduating classes each year and tabulate for use by the director and associate director; keep track of salary offers and record; set up system for organization/recordkeeping and billing for ads in Careers Handbook. Must be a good typist and able to use the IBM PCAT word processor. Ability to prioritize and work under pressure during the peak recruiting periods essential. Will work as a team member to help students write resumes, and find resource material, as well as sharing the responsi bility of answering telephones. Interest in learning more about computers preferred.
Minimum 4.5 years direct/related experience required. S85-054

Sr. Office Assistant, Resource Devel ment Office, to assist in the compilation and maintenance of background informa-tion on gift prospects and donors. Will maintain donor relations files and tickler system. Will compile gift histories of prospects through a close review of Develop ment Office files and reference books and ment Office files and reference books and compose written reports as needed. Assist in notifying faculty, staff and others when a report is due to donor, and maintain files on reports and status of reporting to files on reports and status or reports.

donors. Will perform some research donors for outside corporations and foundations and prepare a short memo on in-formation found. High School graduate or equivalent is necessary. Minimum 2.5 years direct/related experience required. Strong organizational skills and knowledge of grammar and spelling important. Good typing of 40 wp m and familiarity with and/or willingness to learn word pro-cessing and computer skills essential. Analytical skills and pleasant telephone manner desirable. NON-SMOKING OF-FICE \$85-065

Sr. Office Assistant, Personnel Depart ment/Compensation Office, to provide pri-mary administrative and technical sup-port for all wage and salary projects, including annual salary reviews and com-pensation surveys. Responsibilities in clude collecting, proofing and inputting data via IBM 3279 computer terminal to wage and salary database. Will extract and develop data for use in various com pensation reports; maintain and/or in-itiate files and various record-keeping systems as necessary. Will operate Easytrieve programs, develop new programs as needed, assist in conducting two major surveys; contact survey participants, prepare correspondence on DEC word pro-cessing equipment. Wage and salary section conducts 5-6 major salary reviews throughout the academic year and responds to some 40 compensations surveys. Together these responsibilities 60%-70% of individual's time. In addition, will maintain office in after noons (part-time person works 9-1); answer telephone inquiries, word proce correspondence when necessary; perfor other related tasks, such as major mail ings, and compensation analysis projects Data entry, excellent typing skills and word processing skills essential. Experience with running Easytrieve similar computer programs and facility with figures necessary. Excellent in terpersonal skills and the ability to exercise discretion in dealing with sensitive information essential. Flexibility and the ability to respond positively in an often stressful climate due to deadlines and a heavy workload required. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE S85-060

Sr. Office Assistant, Office of the Dean for Student Affairs, to provide support in the Undergraduate Academic Support Office, with primary areas of responsibility being the Wellesley-MIT Exchange Program and the Independent Activities Period. Duties will include answering inquiries; gathering information on programs; interpreting and applying their policies and procedures; producing, distributing and processing forms and question naires; maintaining mailing lists and car rying out mass mailings. Clerical and ac inting duties will include typing and reproducing correspondence and reports, scheduling meetings, and processing monthly accounts. Will assist in production of publications. Familiarity with MIT help-ful, excellent interpersonal and organiza-

tional skills essential. Experience with and/or willingness to learn word process ing necessary. Minimum 2.5 years direct related experience required. NON SMOKING OFFICE S85-046

Sr. Office Assistant, Center for Transportation Studies, to assist Administrative Officer in day-to-day administrative and accounting duties. Will be responsible for monitoring and recon be responsible for monitoring and ciling research, fund and general ac-counts, preparing research budgets and follow through MIT systems; payment of invoices, maintaining requisitions, petty cash, payroll, and other payments. Will help in preparation of monthly and fiscal help in preparation of monthly and fiscal reports via an IBM/PC. Will perform additional duties as necessary. Aptitude for figures and the ability to work in a diverse and busy office with a variety faculty and staff necessary. Familiar with and/or willingness to learn IBM/PC and word processing essential. Minimum and word processing essential. Minimum 2.5 years direct/related experience re quired. S85-042

Sr. Office Assistant, MIT Libraries Administrative Services, to be respon Administrative Services, to be responsible for daily operations of the MIT Libraries Mail and Messenger Unit. Duties will include coordinating priorities to assure adequate coverage for peak loads. Will schedule, direct work, and train assistants. Will coordinate processing of mail and other materials distributed mail and other materials distributed through central Mail Unit according to established guidelines. Responsibilities include maintaining equipment and facilities and adhering to appropriate security/safety procedures. Will instruct staff on and maintain up-to-date information. tion on current postal and shipping regulations/procedures. Will prepare monthly reports, compile statistics; inventory equipment; update procedures, and per-form additional duties as requested. High School graduate or equivalent necessary. Minimum 2.5 years direct/related experience required. Good organizational skills and de nstrated ability to train staff important. Massachusetts driver's licer and 3 years driving experience essential.

Physical strength required for lifting materials of 50 lbs or more. Knowledge of calculator needed. Willingness to learn computer preferred. NON-SMOKING OF-

Sr. Office Assistant, Alumni Associa tion, to assist in the implementation of a Reunion Gift Program. Position will in-volve extensive handling of major mailings, inventory maintenance, scheduling typing, filing, and extensive phone work with alumni, and meeting arrangements. Additional duties will be assigned as needed. Familiarity with and/or will gness to learn word processing essen al. Good interpersonal skills desirable Excellent typing required. Occasional overtime may be required. Minimum 2.5 years direct/related experience required. NON-SMOKING OFFICE S85-936

Word Processor/Data Entry Marketing Assistant, Center for Advanced Engineering Study (part-time), to perform for the Video Course Program all input to the word processing system; maintain mer and responder mailing lists, and data entry for sales/financial report generation. Will evaluate commercial software and train colleagues on software application. Excellent typing skills and attention to detail essential. Good organizational skills and both oral and written communication skills necessary. Mini-mum 2.5 years direct/related experience required. (20 hrs/wk). S85-045

Office Assistant, Personnel-Faculty and Information Services, to maintain person-nel computer file, answer telephone requests for employment verification, assist with special records projects as assigned, and assist in salary review processes. Will use the Digital word proces sor to prepare letters of notification and maintain hard-copy records. Minimum 1 year direct/related experience required. Familiarity with word processing and computer termi-nals or data entry desirable. Must have absolute discretion in dealing with confidential information, S85-062

Office Assistant, Bursar's Office, to pro vide administrative and office support to the Student Loan Collection Area. Will telephone students and alumni borrowers for past due balances and/or deferment forms. Schedule collection letters, mailgrams and telegrams; run credit checks; skip-trace lost borrowers through Institute offices, government and com cial agencies or other sources; schedule al and group Exit Interviews for degree candidates; prepare and mail Exit Interview material to students who have left the Institute; distribute mail, answ telephones and respond to requests for information; type correspondence and re-ports, file and perform general office duties. Minimum 1 year direct/related experience in an educational or business of-fice required. Excellent interpersonal and organizational skills important. Ability to communicate with students, alumni, fac-ulty, Institute offices and outside organizations as well as work independently essential S85-061

Benefits Specialist, Personnel, to be re sponsible for communicating benefits in-formation to all segments of the MIT community. Will answer heavy volume of benefits questions by telephone, in person, and in writing, providing detailed information and solving administrative prob-lems, often in sensitive circumstances. Will act as liaison between MIT and insurance carriers, particularly Blue Cross/ Blue Shield, explaining coverages and processing claim reviews. Will provide adninistrative support; develop and arrange workshops and meetings; develop and conduct orientation programs for new personnel. Will do typing and word process ing and perform other projects as assign ed Excellent communication and organi zational skills, ability to interact with a wide variety of people essential. Must solve administrative problems quickly and tactfully, be able to work indepen dently with little supervision, and per form under pressure, Good writing skills and previous experience in the insurance or benefits area preferred. Good typing and DEC word processing experience or willingness to learn desirable. Knowledge of MIT helpful. Minimum 1 year direct/related experience required. NON-**SMOKING OFFICE B85-058, B85-059**

Office Assistant, Registrar, to assist in the registration of students including the maintenance of student permanent rec ords, use of recordkeeping terminals (IBM), handling of student requests, regis-

tration corrections (drops/adds), typing of form letters, and filing. Ability to work in a busy environment essential. Good typ-ing, accuracy with figures and attention to detail necessary. College experience as a student or employee preferred. Minimum 1 year direct/related experience remum 1 year dire quired. S85-052

Clerical Assistant/Switchboard Operator, Laboratory for Nuclear Science (located in Middleton, MA at the Bates Laboratory, 25 miles north of MIT campus), to attend the switchboard, inter nal paging system, and make nouncements, including some of emergency nature. Will type memos, let ters, and travel vouchers. Additional duties include maintaining the library, property and office supply records, and property and once supply records, and receiving and directing visitors. Good in-terpersonal skills essential, and flexibili-ty needed in this busy office. High School education required. Will be trained in all duties assigned. S85-035

Service Staff

Technician A (electronic), Laboratory for Computer Science, to assist in labora earch, or analytical work under tory, re direction or supervision of scientific per-sonnel. Operates highly technical experimental apparatus. Has demonstrated con-siderable skill and good performance in the particular field of activity. Requires some supervision. Prototype Assembly and Test — Schematically capture, assemble and test simple prototype circuits, cable assemblies and enclosi es. Emulation Facility Support - Implem of engineering changes to wirewrap, Multiwire and PWB boards. Diagnose and repair defective cables and connectors. Diagnose at board-level and repair circuit and packet switch cards. Co rds. Complete Imvare Lab – Prepare plementation of Hardy for installation of LISP processors Graduation from a two-year day technical school or its equivalent and a minimum of two years of applicable experience are required. Experience with digital prototype fabrication and checkout in wire and po boards. The applicant must be familiar with oscilloscopes, logic analyzers, and function generators. Stock room manage-ment, CAD schematic capture, helpful. Must be highly motivated and able to work in an unstructured environment. H85-292

Porter, Faculty Club (part-time), to break down, set or reset all areas of Faculty Club for evening business to include mov-ing tables, chairs and other equipment Will vacuum all carpeted areas of Club, eas, and assist head sweep noncarpeted a bartender in setup or party bars. Will per form additional duties as necessary. Abili ty to read and speak English essential. Requires some heavy lifting. H85-288. H85-289

Counter Person, Faculty Club (temperature) rary, part-time), to set up, serve; and break down the deli bar of the bar lounge area. Setup will include getting all the meats, rolls, salads and condiments from the kitchen area and properly assembling at the deli for ordered sandwiches. Will garnish meat pans and salads for effective presentation. Serving includes slicing meats for sandwiches, scooping salad within portion control guidelines, and assisting customers with soups and con-diments. Breakdown includes cleaning station, emptying trash, bringing properly wrapped foods back to the kitchen for proper storage. Will perform additional related duties as assigned. Ability to work ndently and to speak English required. H85-286

Technician A (electronic), Haystack Observatory, to assist in laboratory, research or analytical work under direction or supervision of scientific personnel. Operates highly technical experimental apparatus. Has demonstrated con-siderable skill and good performance in the particular field of activity. Requires some supervision. This person will primarily be involved in the maintenance and operation of a high-power radar nitter under the direction of engineering personnel. This work include construction and assembly work in transmitter high voltage, microwave, water cooling and electronic control systems. In addition, the work involves maintenance and construction in associated areas such as waveguide, coaxial cable, digital integrated circuitry control logic and power supplies. Graduation from a two-year day technical school or its equivalent and a minimum of two years of applicable experience are required. Par-ticular experience in the areas of microwave circuitry, high-power transmitter components, or high voltage transmitter power supplies is required. Familiari ty with digital construction techniques such as wirewrap and p.c. boards is desirable. The applicant should be proficient in the use of standard electronic test equipment such as oscilloscopes, signal generators, counter, and familiar with th use of standard shop tools from mechanical assembly work. The work assignment requires climbing of the antenna tower by otected ladders and stens as well as out of-normal hours coverage of transmitter operations. H85-282

Technician A (E-M), Microsystems Technology Laboratories - Electrical Engineering and Computer Science, to assist in laboratory, research or analytical work under direction of scientific person nel. Operates highly technical experimental apparatus, has demonstrated con siderable skill and good performance in the particular field of activity. Requires some supervision. Will assist in thin film, dry etch, and ion implant technology der the direction of scientific personnel Individual will be involved in the support of personnel doing thin film deposition and evaluations as they pertain to semiconductor devices and integrated circuits, from preparation to final process. Will also be required to work in a clean room environment and be willing to operate and maintain vacuum systems and construct simple electronic circuits used in the fabrication and evaluation of used in the fabrication and evaluation of semiconductor devices. Will give support in related fabrication areas as well as building support systems. Graduation from a two-year day technical school or its equivalent and a minimum of two years. of applicable experience is required. In dividual should be familiar with the operation and maintenance of equipm required in thin film processes of the state-of-the-art IC's. H85-271

Busperson, Faculty Club (part-time,25 hrs/wk), to bus tables in bar/lounge areas. Will clean tables, ashtrays, and run dishwasher; supply hors d'oeurves out to bar from kitchen, and furnish front bar with liquor, ice, fruit, and glassware. Per with induor, ice, fruit, and giassware. Per-form routine sanitation procedures under direction of head bartender, set up and break down party bars and provide sup-plies as needed. Perform other related duties as necessary. Ability to read, understand, and speak English, as well as prior bar experience desirable. H85-264

Technician A (Electronic), Francis Bit-

ter National Magnet Laboratory, to ass in laboratory research, or analytical work, under the direction or supervision of scientific personnel. Will operate highly technical experimental apparatus. Must have understanding of the theoretical aspects of the experiments and demon strated considerable skills and good per formance in the particular field of activ ity. Requires some supervision. Will construct, operate and maintain highly com plex nuclear magnetic resonance spe trometers which employ VHF-UHF ele tronics, analog and digital circuitry and pulse systems. Will lay out, construct and test prototype circuits and systems; perform routine maintenance of superco ing magnets; and assist visitors in the use of spectrometers. Graduation from a twoof spectrometers. Graduation from a two-year day technical school or its equivalent and a minimum of two years of applicable and a minimum of two years of applicable experience are required. Strong back-ground in VHF-UHF electronics and digital and analog circuitry preferred. Ability to select suitable components and subsystems and to combine these to serve specific purposes necessary. Must work with little or no supervision. Familiarity with machine shop practices and cryo-genics is desirable. H85-242

The following positions were still available at Tech Talk deadline. Complete 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

ni Association

A85-633, Assistant Director, Research Development Officer A85-631, 630, Sr. Editor, Alumni

Association C85-163, Assistant Acquisitions Librarian I The Libraries

C85-162, Administrative Officer, Physics A85-624, Analyst Programmer II, Alum-

A85-623, Construction Coordinator, Physical Plant

A85-622, Assistant Dean for Development, Dean's Office, School of Archite

ture and Planning A85-621, Assistant Dean for Development, School of Humanities and Social

A85-618. Assistant Director, Undergraduate Opportunities Program
A85-616, Systems Programmer II-

Operations and Software Development, Project Athena A85-615, Deployment Manager, Project

Athena C85-161, Postdoctoral Associate, Applied

Biological Science C85-160, Librarian I-Cataloguer, MIT

Libraries A85-606, Sr. Systems Analyst, Administrative Systems

C85-159, Records Management Officer, The Libraries A85-600, Auditor I, Audit Division

A85-594, Safety Assistant, Safety Office A85-589, Network Manager, Telecommunications Systems

C85-158, Sr. Dental Hygenist, Medical C85-157, Patient Care Coordinator-Inpatient Unit, Medical

A85-586, Manager, Financial Services A85-583, Director-Graduate Alumni Pro-

grams, Alumni Association C85-154, Nurse Practitioner-Dermatology,

C85-152, C85-153, Postdoctoral Scientist, Spectroscopy Laboratory C85-151, Comparative Pathologist, Divi-

sion of Comparative Medicine C85-143, Assistant Dewey Librarian I,

MIT Libraries A85-557, Sr. Analyst Programmer, Administrative Systems
A85-553, Sr. Analyst Programmer,

Comptroller's Accounting Office A85-552, Analyst Programmer II, Comp troller's Accounting Office C85-149, Director of Health Education

Service, Medical C85-148, Archival Manuscript Specialists, The Libraries

C85-147, Academic Staff-Technical Instructor, Electrical Engineering C85-146, Postdoctoral Associate, Applied

Biological Sciences C85-144, Audiologist, Medical (parttime) C85-142, Asst. Science Librarian for the

C85-141, Librarian I, Roman Jakobson A85-512, Systems Programmer, Information Systems

A84-419, Systems Analyst, ministrative Information Systems 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 A85-512, Systems Programmer, Informa-

tion Systems A85-500, Director of the News Office, News Office

C85-133, Assistant Humanities Libra Libraries C84-131, Librarian I (PT), Libraries

C84-130, Postdoctoral Associate, Nutrition & Food Science C84-129. Postdoctoral Associate. Nutri-

tion & Food Science C84-128, Nurse Practitioner (pt), Medical C84-126, Nurse Practitioner, Medical

SPONSORED RESEARCH STAFF:

R85-839, Technical Assistant-Molecular Biology, Applied Biological Sciences R85-831, Research Specialist (temp-lyr), Materials Science & Engineering

R85-830, Technical Assistant, Biology R85-828, Registered Nurse, Clinical

Research Center R85-827, Fiscal Officer, Laboratory of Architecture and Planning R85-826, Sponsored Research Technical

Staff-Physicist, Llaboratory for Nuclear

Staff, Laboratory for Nuclear Science (located 25 miles north of MIT) 85-822, Research Scientist, Research

Laboratory of Electronics

R85-821. Research Specialist, Cell

R85-817, Research Specialist, Energy Laboratory R85-814, Technical Assistant, Biology

R85-813, Research Technologist, Division of Comparative Medicine R85-808, Project Engineer, Harvard-MIT Division of Health Sciences and

Technology 85-801, Programming Analyst, R85-801,

ing, Aga Khan Program
R85-800, Systems Prog
Laboratory for Nuclear Scien Programmer, R85-799, Technical Assistant, Chemical

Engineering R85-796, Research Scientist, Laboratory for Electromagnetic and Electronic

R85-795, Research Engineer, Civil R85-784, Staff Accountant, Laboratory for

Nuclear Science R85-776, Research Staff, Francis Bitter National Magnet Laboratory R85-770, Research Specialist, Center for

Materials Science and Engineering R85-761. Technical Assistant-PC Coordinator, Media Laboratory R85.750 Research Engineer, Energy

Laboratory R85-749, Research Engineer, Energy Laboratory R85-747, Technical Supervisor, Plasma Fusion Center R85-746, Research Specialist, Harvard-MIT Division of Health Sciences and

Technology R85-743. Assistant Group Leader-

Diagnostics, Plasma Fusion Center R85-731, Research Engineer, Aeronautics and Astronautics R85-727, Research Associate, (temp. 3 mths), Research Laboratory of

Electronics R85-723, Scientific Research Staff, Center for Space Research R85-722, Scientific Research Staff (Project

Scientist), Center for Space Research R85-721, Scientific Researcher, Center fo Space Research

R85-719, Theoretical Space Plasma Physicist, Center for Space Research R85-717, Program Manager, Center for ce Research R85-715, R85-716, Electrical Engineer,

Center for Space Research R85-714, Mechnical Engineer, Center for R85-713, Quality Control Engineer/ Manager, Center for Space Research R85-712, Contract Administrator/Project

Coordinator, Center for Space Research R85-711, Research Staff, Haystack Observatory R85-706, Research Specialist/Associate,

Civil Engineering R85-702, Program Manager, Center for Space Research R85-681, Research Scientist, Plasma Fu-

R85-645, Principal Research Scientist, Materials Processing Center R85-641, Program Manager (tmp)

Harvard-MIT Division of Health Sciences and Technology
R85-631, Research Specialist, Earth, Atmospheric, and Planetary Sciences R85-627, Research Engineer, Materials

Science and Engineering R84-475, Postdoctoral Associate, Energy

R84-549, Research Scientist, Energy R84-519, Research Scientist (temp).

Haystack Observatory R84-492, Research Associate, Energy

R84-433, RF Engineer, Plasma Fusion R84-426 Research Scientist, Plasma Fusion Center

R84-381, R84-383, R84-384, SRS Postdoctoral Positions, Spectroscopy Lab R84-373, Research Engineer, Aeronautics

& Astronautics R84-370 Research Scientist, Artificial Intelligence Laboratory
R84-358, Principal Research Scientist,

Lab for Nuclear Science R84-340, Research Scientist, A.I. Lab. R84-333, R84-332, R84-331, Research

Staff and Principal Research Staff, Electrical Engineering and Computer Science

R83-210. Research Specialist, Artificial Intelligence Laboratory R83-135, Research Scientist, Earth, At-

mospheric & Planetary Sciences R83-988, Experimental Physicist, Center

for Space Research LIBRARY SUPPORT STAFF

L85-994, Library Assistant III, Hayden Circulation (evenings, temporary)
L85-973, Library Assistant III, (part-time) The Libraries-Retrospective Collection

SECRETARY/STAFF ASSISTANT B85-024, Sr. Secretary, Treasurer's Office B85-022, Sr. Secretary, Biology B85-020, Sr. Staff Assistant/Assistant

Production Manager, Center for Ad vanced Engineering Study B85-026, Secretary, Applied Biological

B85-015, Secretary, Officer of Sponsored Programs

B85-004, Administrative Staff, Biology B85-996, Sr. Secretary, Materials Process-ing Center/Ceramics Processing

Research Laboratory B85-964, Sr. Secretary, Office of the Dean for Student Affairs

B85-849, Sr. Medical Secretary,

Psychiatric Services B85-862, Sr. Secretary, Center for Infor

mation Systems Research B85-984, Secretary, Earth, Atmospheric, and Planetary Sciences (part-time)

B85-963, Sr. Secretary, Physics B85-959, Sr. Staff Assistant, MIT Press B85-950, Sr. Secretary, Sloan School of Management

B85-944, Sr. Secretary-Technical, Operations Research Center B85-940, Sr. Staff Assistant, Research

Laboratory of Electronics (part-time) B85-932, Sr. Secretary, Center for Cancer Research (part-time) B85-929, Sr. Secretary, Political Science

(part-time) B85-931, Secretary, Medical B85-916, Sr. Secretary, Mathematics B85-914, Sr. Secretary, Mechanical

Engineering B85-915, Staff Assistant, Personnel

R85-824, Sponsored Research Technical Tech Talk, November 6, 1985, Page 7



The McGraw Hill Foundation, Inc., presented its first installment of a \$50,000 pledge that will support an economics fellowship named for Institute Professor Paul A. Samuelson. At the presentation in the President's office were (clockwise from left): Professor Samuelson; Mary Cooper, president of the McGraw Hill Foundation and senior vice president of administrative services; Robert C. Bowen, group vice president of Higher Education and Training and the McGraw Hill Book Company; Peter J. Bradley, president of the McGraw Hill Book Company; E. Cary Brown, associate dean and head of foreign languages and literatures; President Paul E. Gray, and Ann F. Friedlaender, dean of the School of Humanities and -Photo by Calvin Campbell

CRC to launch seminar series

The Clinical Research Center (CRC), MIT's major center for biomedical research involving human subjects, has announced a series of research seminars that relate to the major areas under investigation at the CRC.

The first focus for the seminars—which will beg in at 10:30am, Tuesday, Nov. 12, in Rm E25-401—will be depression. The inaugural speaker will be Richard J. Wurtman, M.D., director of the CRC and professor of neuroendocrine regulation in the Department of Applied Biological Sciences.

Dr. Wurtman's topic will be "Nutrition, Neurotransmitter Synthesis and Depression. Seminar speakers on the five successive Tuesdays will cover other aspects of depression. All seminars will begin at 10:30am in Rm E25-401 and will conclude at 11:30am.

A subsequent series will begin in the spring term and focus on research in nutritional biochemistry and metabolism, obesity, and neurology/psychology. Dates, times and places for the spring seminars will be announced later.

A lecture at 3:30pm, Friday, November 15, in Rm E17-615, is also part of the CRC seminar series. Michael Fant, MD, PhD, of Harvard Medical School and the MIT Department of Applied Biological Sciences, will discuss "Autocrine/Paracrine Role of Insulin-like Growth Factors in Human Placental Growth."

Following Dr. Wurtman in the seminar on

depression will be:

search Directions."

November 19-Dermot A. O'Rourke, M.D., assistant program director, CRC, "Depression

November 26-Jerrold G. Bernstein, M.D., assistant clinical professor of psychiatry, Harvard Medical School, assistant psychiatrist, Massachusetts General Hospital, "Depression: Pharmacology and Treatment Limita-

December 3-Dr. O'Rourke, "Depression in the Physiologically Compromised Patient." December 10-Dr. Bernstein and Dr. O'Rourke, "Depression: Problems and Re-

December 17—Harris R. Lieberman, PhD, research scientist, MIT Department of Psychology, "Behavioral Effects of Food and Drugs.

The MIT community is invited to attend the

(Dedham, MA)

Productivity

Plant

CRC, located in building E17, is small, fully equipped and staffed research hospital with 12 beds and an outpatient unit.It was established in 1964 to enable scientists to perform research with normal and diseased

OFFICE ASSISTANT

tions and Systems

Energy Laboratory

Development Office

tion Systems

Development

Office

S85-023, Administrative Assistant,

Biology S85-013, Account Representative, Opera-

S85-012, Sr. Account Representative,

Operations and Systems S85-016, Office Assistant, (part-time),

S85-011, Accounting Assistant V, Comptroller's Accounting Office
S85-009, Administrative Assistant,

S85-008, Administrative Assistant,

Resource Development Office S85-007, Sr. Office Assistant, Resource

S85-006, Sr. Office Assistant, Resource

Development Office S85-005, Sr. Office Assistant, Resource

Development Office S85-995, Jr. Computer Operator, Informa-

S85-962, Office Assistant, Resource

S85-917, Office Assistant, Plasma Fusion

S85-871, Sr. Office Assistant, Artificial In-

telligence Laboratory
S85-909, Assistant Communications Con-

S85-958, Office Assistant, Admission

Resource Development Office

Program for Islamic Architecture S85-861, Word Processing Operator, MIT

S85-846, Clerical Assistant II, Haystack Observatory (Westford, MA)

S85-794, Waiter/Waitress, Endicott House

S85-761, Clerk Typist/Receptionist, Naval

Science, (part-time)
SERVICE STAFF
H85-272, Electrical M/S (Sr.), Francis Bit-

ter National Magnet Laboratory H85-241, Sr. Technician (electronic), Laboratory for Manufacturing and

H85-252, Engineer 2nd Class, Physical

H85-253, Electrician, Physical Plant H85-243, Technician B (electronic),

Haystack Observatory H85-173, Technician B (electronics),

H85-161, Technician A (E-M), Energy

Laboratory H85-153, FCS Instrument Systems

Worker, Physical Plant H85-109, Technician A (E-M), Energy

Laboratory H84-006, Technician A (E-M), Electrical

Plasma Fusion Center

human subjects. The CRC allows students at all levels to gain experience with human subjects and human disease.

At present, most of the CRC research activities are associated with three clinical areas and involve three groups of scientists, each led unofficially by a senior professor. These are: nutrition/metabolism, Dr. Vernon R. Young; neurochemistry/neuropsychopharmacology, Dr. Wurtman; and human neuropsychology, Dr. Suzanne Corkin. The CRC also has a growing commmitment

to the understanding and treatment of Alzheimer's Disease. The Massachusetts Alzheimer's Disease Research Center (ADRC), one of five federally funded centers established in 1984 by the National Institute on Aging, has as its principal investigator Dr. John H. Growdon, who is an attending physician at the CRC and a member of its executive committee. Dr. Wurtman is a member of the ADRC scientific advisory board and Dr. Corkin is a member of the scientific advisory board and the ADRC executive committee. T. John Rosen, who heads the ADRC's data management core, is a research statistician in the MIT Department of Psychology and supervise data management and analysis for all of Dr. Corkin's research at the CRC.

Wang Fellows named

Two graduate students from the People's Republic of China have been appointed An Wang Fellows at MIT under a program established by a gift from Dr. Wang, board chairman and chief executive officer of Wang Laboratories, Inc.

The An Wang Graduate Fellowship Fund supports master's and doctoral candidates who are admitted to any of MIT's graduate degree programs. Graduate students receiving support from the fund signify that they will return to the PRC after their graduate tenure at MIT to contribute to the educational, research or development of that country for a significant period of time.

The new appointments-Jin-SongHuang, who holds the BS from Peking University, in the Department of Mathematics, and Chengguo Tang, who holds the MS from Peking University, in the Department of Chemistry-bring to five the number of An Wang Fellows studying at MIT. Three of the fellows are in their second year of study. The support provided by the An Wang Fund consists of tuition plus a monthly stipend for the

nine-month academic year.

sole Operator, Physical Plant S85-866, Receptionist, The Laboratory for

Architecture and Planning, Aga Khan B85-894, Administrative Secretary, Alumni Association

B85-905, Sr. Secretary, Sloan School of Management B85-897, Sr. Secretary, Laboratory for

Nuclear Science B85-865, Sr. Secretary, Biology B85-862, Sr. Secretary, Center for Information Systems Research B85-617, Sr. Secretary, Biology

B85-708, Sr. Secretary, Materials Science and Engineering B85-706, Staff Assistant, The Libraries, Microreproduction Laboratory 85-547, Sr. Secretary-Tech.,

Mathematics B85-501, Secretary, MIT Press B85-465, Sr. Secretary, Physical Plant B85-593, Sr. Secretary, Upward Bound

Program
B84-231, Receptionist/Word Proce Operator, Civil Engineering TECHNICAL SUPPORT STAFF T85-979, Technical Assistant IV,

Registrar T85-971, Ophthalmic Assistant, Medical T85-621, T85-620, Technical Assistant,

Telecommunications Systems
T84-319, Reactor Operator, Nuclear Reac tor Laboratory

Rasmussen wins Fermi Award

in the nuclear regulatory process to establish relative risks and determine areas where effort should be concentrated in plant modification, maintenance and operation.

Professor Rasmussen is the second MIT faculty member to receive the Fermi Award, which was established in 1954 to honor the leader of the scientists who achieved the first self-sustained, controlled nuclear reaction. Dr. Manson Benedict, Institute Professor Emeritus and the first head of the Department of Nuclear Engineering, received the award in 1972. Other recipients include John van Neumann, Ernest O. Lawrence, Eugene P. Wigner, Glenn Seaborg, Hans A. Bethe, Edward Teller, J. Robert Oppenheimer, Hyman G. Rickover, Otto Hahn, Lise Meitner, Fritz Strassman, John A. Wheeler, Walter H. Zinn, Norris E. Bradbury, Shields Warren, Stafford L. Warren, William L. Russell, Harold M. Agnew, Wolfgang K. H. Panofsky, Rudolf E. Peierls, Alvin M. Weinberg, W. Bennett Lewis, Herbert Anderson, Seth Neddermeyer, Alexander Hollaender and John Lawrence.

Professor Rasmussen, 57, has been a member of the nuclear engineering faculty at MIT since 1958 when the department was formed. He headed the department from 1975 to 1981.

Since 1983 he has been the McAfee Professor

of Engineering. For many years he has headed the MIT summer program in nuclear power reactor safety which provided advanced training for many of the technological leaders in the nuclear industry in this country and abroad.

A native of Harrisburg, Pa., Dr. Rasmussen attended grade school in Hershey, Pa., and high school in Gettysburg, Pa. He served in the Navy from June 1945 to August 1946 and entered Gettysburg College in September 1946, graduating cum laude in 1950.

He entered the MIT graduate school in 1950 and received his PhD in physics in 1956. He was an instructor in the department of physics

from 1956-58.

His early research was in the area of radiation detection, the interaction of radiation with matter, high-resolution gamma ray spectroscopy, the analysis of spent reactor fuel, studies of the use of captured gamma rays in activation analysis and the use of gamma ray spectroscopy in safeguarding nuclear materials.



Dr. Rasmussen has been a frequent consultant and adviser to government and in-dustry on nuclear power. He is a fellow of the American Nuclear Society and a member of the American Association for the Advancement of Science and the Institute of Nuclear Materials Management.

In June 1976 he received the American Nuclear Society's Special Award for Assess ments of Nuclear Power Reactor Safety. In July 1976, the Health Physics Society gave him its Distinguished Achievement Award. In October 1976 he received the Distinguished Service Award of the Nuclear Regulatory Commission. In May 1977 he was elected to the National Academy of Engineering and in 1979 to the National Academy of Sciences. He has been awarded honorary doctorates from Gettysburg College and the Catholic University of Leuven.

In 1982 he was appointed to a six-year term on the National Science Board by President

Dr. Rasmussen and his wife, the former Thalia Tichenor, live in Sudbury. Their son Neil is an electrical engineering alumnus of MIT. Arlene, their daughter, is a graduate of Keene State College.

NIH funds new resource center

MIT's George R. Harrison Spectroscopy Laboratory has been awarded a four-year, \$1.6 million grant from the National Institutes of Health to establish a Biotechnology Resource Center for research in lasers and medi-

The new facility will pursue research at the frontier of biomedicine, using laser light and optical techniques. The goal is to provide a basic understanding of the photobiological processes needed for developing optical scalpels for microsurgery and optical fiber probes for diagnosing tissue in inaccessible parts of the body. Basic aspects of photomedicine also will be studied.

The new center will function in parallel

with the MIT Laser Research Center, an NSFsupported facility housed in the Spectroscopy Laboratory. The new research facilities will be available to scientists and physicians throughout the United States.

Professor Michael S. Feld of the Department of Physics is director of the Spectroscopy Laboratory and the new Center. Dr. Carter Kittrell will be research coordinator for the laboratory's laser facilities, Dr. Dasari said. Current research includes the use of lasers in treating atherosclerosis, in microsurgery and in diagnosing tissue changes in living systems. Collaborative projects are underway with the Cleveland Clinic foundation and Harvard Medical School.

Dramashop to introduce video

MIT Dramashop will use interactive video for the first time in a play directed by Jean Alpers '86 for this year's second Evening of One-Acts November 14-16 at 8pm.

The roles of receptionist, teacher and founder of a health spa will be entirely conveyed by means of a 25-inch video screen set up on stage throughout Half Time at Halcyon Days, a contemporary satire by Carol K. Mack. The action revolves around five energetic women who have come to the spa for treatment. Computer-generated color changes on the video screen help to carry the action forward.

The voice and face of the receptionist will be that of Anna Lisa Fear '85, who also will be costume designer for the play. The video role of the founder will be played by Lee Higgins, Wellesley '87. The five women on stage will be Kelley Campbell, Wellesley '87; Patricia Zeitler 88; Cheryl McCullum, Kristi Trostel and Rena Miller, all class of '89.

Others collaborating on this play will be: stage manager Michael Guenette '82, set designer Sanjay Govindjee '86 and video director Edward Love '86.

The other play for the evening will be The Apollo of Bellac by Jean Giraudoux, adapted by Maurice Valency and directed by Leslie Meicer '88. A contemporary comedy, this one has to do with a woman played by Kerry O'Neill '86 who's been told she can get ahead in the business world by telling men how handsome they are.

The cast also is made up of Joel Friedman and Shankar Raman, '86; Brian Linden and Anne LaFlamme '88; Scott Ramsay, Mark R. Kordos, Michael Malek, Derek Clark, Robert Gates, all '89; and MIT staff member Elizabeth Young.

Stage manager is Saul Resnikoff'87 and set designer is Aaron McPherson '89. Other members of the crew: Ms. Fear, costumes; John Mailhot '88, lighting; Samuel Lippert '88; sound/video James Janosky '87 and David

Waldes '89, set crew chief. Professional leadership for the student-run one-acts comes from Dr. Robert N. Scanlan, director of the Drama Program; Edward Darna, technical director, William Fregosi, set designer, Margaret Hall, costumer and Jeanette I. Mitrano, administrative assistant.

Admission to the one-acters is free. A critique and coffee hour follows each evening's performance.

Mabel Farrell

Mabel Farrell, a telephone operator at MIT from 1945 until her retirement in 1965, has died at the age of 81. Mrs. Farrell, who died October 18, is survived by a son, Frederick Gilliatt of Quincy.

Michael Grimolizzi

Word has been received of the October 29 death of Michael Grimolizzi, an instrument maker at Lincoln Laboratory from 1952 until his retirement in 1981. He was 67 and lived in Lowell, where he leaves a sister, Alice.

Rose memorial

A memorial service for Professor Emeritus David J. Rose, who died October 24, will be held in the MIT Chapel Friday, Nov. 8, at 3:30pm.

Morse memorial

A memorial service for Dr. Philip Morse of the Departmentof Physics, who died September 5, will be held at 3:30pm Saturday, Nov. 16, in the MIT Chapel.

Randall Brad Smith

Randall Brad Smith, a senior in aeronautics and astronautics, died late in September following a car accident in Colorado. On leave from MIT, he had been studying in Colorado and expected to return in the spring to receive his SB degree. He was a member of Phi Gamma Delta fraternity.

Mr. Smith, who came from Owensboro, Kentucky, is survived by his parents, a brother

and a sister.

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Engineering & Computer Science