

One of the light posts casts a flower-like shadow of itself in McDermott Court. —Photo by Calvin Campbell

MacEachen Addresses Alumni N-Power Sharing Seen as Duty

By ROBERT C. Di IORIO
Staff Writer

The industrialized nations of the world have a duty to make nuclear technology available to energy-poor countries for peaceful purposes, Allan J. MacEachen, deputy leader of the Opposition and Opposition Leader in Canada's House of Commons, said at MIT Saturday, Sept. 29, as he delivered the third annual Robert H. Richards Lecture at the 1979 Alumni Officers Conference.

"To do otherwise," Mr. MacEachen said, "would be to reserve to the industrialized countries a valuable energy source that we ourselves are using."

This duty of the haves to share with the have-nots is complicated by the fact that the fear of diver-

sion of nuclear power to military and political ends remains a major concern of national governments, Mr. MacEachen, a member of the MIT Corporation, said.

The Richards Lecture honors the founder of the 66,000-member MIT Alumni Association. The lecturer is chosen from the ranks of those with close ties to MIT who are active in public service. An underlying theme of the lectureship is the responsibility of MIT alumni to speak out on public issues.

Earlier in the meeting it was announced by MIT Provost Walter A. Rosenblith that funding had been completed for the Ellen Swallow Richards Professorship. The chair will honor MIT's first alumna and first woman faculty member. She and Robert Richards

were married. Marjorie Pierce, Class of 1922, who headed the committee that raised funds for the chair, said she hoped the establishment of the professorship would inspire women to pioneer new research directions.

Mr. MacEachen, deputy prime minister and president of the Privy Council during the Trudeau administration, said the energy crisis in the broad sense has brought fundamental changes to international and domestic politics.

"However, the crisis is often deceptive when viewed close up," he said. Its most pronounced result is not political, but rather "a shift in international economic power."

Mr. MacEachen said he was

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Arms Experts Favor SALT II

The United States is "entirely unconstrained" by SALT II from upgrading its armed forces in ways that will most deter the Soviet Union, according to two specialists in arms control at MIT.

The issues being raised against the treaty are not substantive, say Dr. Howard Margolis and Professor Jack Ruina, writing in the

October issue of *Technology Review*, the journal of science and society edited at MIT.

The SALT agreement, they say, does not undermine the determination of the United States "to do whatever is necessary to maintain balance."

Professor Ruina, director of the Arms Control and Defense Policy

Program at the MIT Center for International Studies, and Dr. Margolis, a research fellow at the center, dismissed criticism of SALT II that is based on the exclusion of the Soviet Backfire bomber or on the fact that the United States has not insisted on

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Program is Announced For Stress Symposium

The program has been announced for the day-long Symposium on the Management of Stress in Women, sponsored by the MIT Women's Forum in cooperation with the Medical Department, to be held Saturday, Oct. 13, in the Student Center.

Some 170 members of the community have preregistered for the symposium, for which registration is now closed. The \$5 registration fee will become nonrefundable after noon Friday, Oct. 5.

The symposium will open at 9:15 with a welcome by Susan Black, symposium coordinator, and introductory remarks by Dr. Stephen Aronson of North Country Consultants. Morning workshops will be held from 10:15-11:45 with the following topics and speakers:

Stress Management through Time Management—Marilyn Chase of the Roxbury Multi-Service Center.

What you Should Know about Holistic Health and How to Attain

It (Or What Can I Do for My Back?)—Elizabeth Spark, MD, of Beacon Hill Health Associates.

Coping with Stress (Some of the Psychological Aspects of Stress and the Techniques for Dealing with Them)—Dr. Aronson.

Nutrition and Stress—Maggie Lettvin, lecturer in physical education.

After a break for luncheon in the Sala de Puerto Rico, Dr. Herbert Benson of the Harvard Medical School and Beth Israel Hospital will give the keynote address, "Your Innate Asset for Controlling Stress."

Afternoon workshops will be held from 2:45-4:15 with the following topics and speakers:

The Management of Time in Women's Careers—Leo Dauwer, supervisor of elementary education/director of curriculum, Plymouth Public Schools.

Substance Abuse and Stress—Ronald Fleming, coordinator of the MIT Personal Assistance Program.

Are There Remedies for Stress in the Working Woman?—Joanne B. Bluestone, executive director of the Health Planning Council for Greater Boston.

Fitness Techniques for the Reduction of Stress—Maggie Lettvin.

The symposium will close with a brief evaluation session followed by refreshments.

Wine Appreciation Course Re-Offered

Dr. Brian M. McCay, instructor in mathematics, who gave a very popular wine appreciation course last spring, will repeat the course beginning Wednesday, Oct. 10. The course will meet for five consecutive Wednesdays, and is limited to 15 registrants. The fee of \$50 will cover all costs. To register, call Dr. McCay at x3-7770.

Arts Forum To Show Community Works

A four-day Arts Forum, open to the entire MIT Community, will be held in the Hayden Courtyard Tuesday, Oct. 23, through Friday, Oct. 26.

Presentations will begin daily at 1pm and will last as long as the audiences and artists wish to participate. Members of the faculty, staff and all students are invited to present artistic works in progress or in completed form. All artistic disciplines will be considered for public display or performance. The forum is intended to be experimental in nature used as a showcase for artists and would-be artists who have had limited opportunities to present their work.

'Boston Monthly' Features MIT Art, Technology

The subject of art and technology at MIT is featured in the October issue of *The Boston Monthly*, Boston's new literary/arts tabloid.

Entitled "MIT—Invoking the Electronic Muse," the piece was written by free-lancer Patricia Wild and focuses on "lasers, computers, video screens and electronic cameras...among the artistic tools employed by creative minds at the Massachusetts Insti-

tute of Technology."

"Using the technology of today and the vast resources of the Institute, these artists are creating innovative, exciting works," Ms. Wild writes. "Their presence at MIT, an institution generally associated with pure science and research, is indicative of the Institute's commitment to art and technology working together."

"The holographers, kinetic artists and celebrationists at the

center (CAVS) are not the only artists at MIT. Photographers, filmmakers, musicians—a wide assortment of creative, vital people—can be found there, using the tools of their age," Ms. Wild continues.

The article discusses developments at the Center for Advanced Visual Studies, the MIT Film/Video Section, the Architecture Machine Group, the MIT Experimental Music Studio and the Visible Language Workshop.

Individuals interested in presenting works on audio tape must leave their tapes, title of musical piece, name and phone number in the office of the Committee on the Visual Arts, Rm 7-145, no later than Wednesday, Oct. 17, so that compositions may be transferred to a master tape.

People who wish to participate in Day 2 or Day 3 should give a brief description of their work, their name and number to the CVA office, but it is not required.

Address all inquiries and entries to Cindy Carter, Committee on the Visual Arts, Rm 7-145 or call x3-4400.

Area Coordinators, Solicitors Announced For Charity Drive

Songs in close harmony by the Logarithms and the Chorallaries and free balloons for passersby will be highlights of MIT's United Way/Boston Black United Fund Drive kick-off in the Rogers Lobby at noon today (Wednesday, Oct. 3).

The Fund Drive is MIT's only charity drive, except for the Community Service Fund. The community's response has always been generous to the United Way, and last year, MIT's was the largest single employee donation to the Black United Fund in its first year of operation. Of the \$92,000 raised by the BBUF, \$17,500 came from MIT.

The United Way of Massachusetts Bay contributes to the support of 162 different human care agencies, filling needs in the large general areas of health and rehabilitation, social service and child care, youth associations, neighborhood centers and independent camps, community organizations and special services, and services to armed forces personnel. Your contribution can be directed to a single agency among the 162 if you like, or can be treated as a general donation. Whichever way you choose, 88c of every dollar

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Faculty Club Closing Notice

The MIT Faculty Club will be closed for lunch on Friday, Oct. 5, because of a luncheon for members of the MIT Corporation and their guests.

"We regret any inconvenience this may cause our regular members, but space limitations force us to take this step for this occasion," Brian Smith, manager of the Faculty Club said.

The Faculty Club will return to its regular schedule after the Corporation luncheon and will be open as usual for dinner on October 5.

Plant Sale

On Thursday

"Every room for living needs a living plant," is the slogan this year for the annual Plant Sale of the MIT Women's League.

The sale will begin at 9am Thursday, Oct. 4, on the Student Center steps and continue until all the plants are sold. Many plant sizes will be available from cuttings to established plants of various types. Prices are nominal and proceeds go to fund other student services of the Women's League.

Advice on the care of plants chosen will also be available from members of the Women's League notable for their green thumbs.



Members of the LaSalle Quartet, (left to right): Walter Levin, violin, Henry Meyer, violin, Peter Kamnitzer, viola, and Lee Fiser, cello, are pictured here with composer Gerhard Samuel (center, standing). The Quartet will give the local premiere of Mr. Samuel's Quartet No. 1 in Room 10-250 on Sunday, October 7, at 8pm.

LaSalle Quartet to Perform In Guest Artists Series

The LaSalle String Quartet will give the opening concert of the 1979-80 MIT Guest Artist Series on Sunday, October 7, at 8pm, in Huntington Hall, Rm 10-250.

Echoes

October 3-9

50 Years Ago

At a well attended meeting of the freshman class in room 10-250 on Monday afternoon, President Stratton stressed the value of dividing time between studies and extra-curricular activities. He stated that, "Not only does participation in an activity develop the social side of the scientist but also prospective employers are interested in a man's record outside of the lecture rooms. He also complimented the class on its ready adoption of the freshman tie saying "The tie is beneficial both as an aid to class organization and as a means of furthering acquaintanceships."

40 Years Ago

Jimmy Dorsey and his orchestra have been signed for the Sophomore Dance to be held in the Main Ballroom of the Hotel Copley Plaza November 24. Helen O'Connell and Bob Eberly will provide the vocal inspiration while the band will play music to please dancers and jitterbugs alike.

Stressing the importance of the outside activities of the Institute as one of the most potent means of finding jobs for students, President Compton addressed the 5:15 Club Wednesday afternoon. He estimated that the Institute faculty serves on 1500 committees encompassing many activities throughout the nation including the increased training of naval reserves in warship and torpedo design.

25 Years Ago

New laboratories dedicated to the fundamental research which will exploit the vast peacetime potential of electronic and nuclear science will be built as a memorial to the Institute's late chairman, Dr. Karl T. Compton. Preliminary drawings for a \$3,000,000.00 building have already been made by Skidmore, Owings and Merrill of New York. In addition, a fund will be provided for unrestricted support of the Institute's work in these fields.

The Dramashop, dormant for the past several years, is being reorganized. The group, whose existence dates back to 1927, has had a rich history at the Institute. The Dramashop will stage its productions in the Little Theatre of the new auditorium which is nearing completion.

Prepared by Edward J. Halligan, Jr., assistant curator of MIT Historical Collections, x4444.

Sponsored by the MIT Music Section with assistance from the Council for the Arts at MIT, this event is free and open to the public.

The concert will feature the Cambridge premiere of Gerhard Samuel's Quartet No. 1, a work written especially for the LaSalle Quartet. Also on the program will be Mozart's Quartet in A Major, K. 464, and Mendelssohn's Quartet in A minor, Opus 13.

In 1978, Cincinnati Enquirer critic Nancy Malitz reviewed the LaSalle's debut of Samuel's Quartet No. 1 saying, "The single-movement work is a genuinely beautiful composition destined to become a part of the active repertoire."

The work is an example of great lyric expression, with long, melodic contrapuntal lines. The composer noted that his close friendship with LaSalle members, colleagues at the University of Cincinnati, influenced his composition.

Mr. Samuel said, "Writing for four musicians whose work I know so well, gave an extra dimension to it all...unconsciously I provided them with many of the things they do best."

Formed at the Juilliard School in New York, the LaSalle Quartet took its name from the nearby street where the four musicians rehearsed as students. In 1953 they took their current position as resident string quartet at the College Conservatory of Music at the University of Cincinnati.

Since its 1954 European debut, the LaSalle Quartet has performed throughout Europe, Asia and North and South America. Die Welt (Berlin) called the LaSalle, "true leaders in the world of quartets." A.J.P. Taylor of New Statesman (London) said, "This is one of the greatest American quartets, indeed among the finest I have ever heard," in a review of a recent performance.

The LaSalle Quartet plays with a matched set of Amati instruments and is known for a wide range of recordings. The album, "New Vienna School," won more awards than any other chamber music album to date, including the Grand Prix du Disque. Last year, LaSalle won this award for a second time for its recording of the five late quartets of Beethoven.

Cleveland Alumni To Hear Seamans

Dean Robert C. Seamans, Jr., of the School of Engineering, will be the keynote speaker Oct. 27 at a symposium on "Technology: A Future Necessity?" to be presented in University Heights, Ohio, by the MIT Club of Cleveland.

James A. Hester, executive vice-president of the Alumni Association, said the symposium is unusual in that Cleveland area alumni will be seminar leaders, rather than MIT faculty members.

"We think this is a novel means of demonstrating the breadth of intellectual talents among MIT graduates at a public forum in a large urban area," Mr. Hester said.

INSTITUTE NOTICES

CEP Meetings

Summary of CEP Meeting on 27 September 1979

Discussion of the review and recommendations regarding the Experimental Study Group.

Agenda for CEP Meeting on 4 October 1979

Discussion of Concourse Program with Professors David Adler and Jerome Lettvin.

Continued CEP discussion of proposals regarding ESG.

Announcements

Add Date October 12**—Last day to add subjects to registration.

Juniors and Seniors***—October 12 is last day to change an elective to or from pass-fail grading.

Freshman Evaluation Forms**—Available in living groups or UAS, Rm 7-103, Friday, Oct. 3. Complete a form for each subject and give to instructor by Friday, Oct. 19. Plan to discuss evaluations with your advisor in early November. If you and your advisor don't work well together, contact UAS, Rm 7-103.

Freshman IDs and pictures are available in Rm 7-103.

Rule 5*—now accepting contributions of writing or artwork now until IAP in Rm 14N-305. Info: Ben Pless, 862-3072.

MIT Furniture Exchange**—Open Tuesdays and Thursdays, 10am-2pm at 25 Windsor St. to buy or sell used furniture. Letters given for tax deductible donations. Info: x3-4293 during hours above.

The Advisory Committee on Shareholder Responsibility will meet at 1pm, Thursday, Oct. 4 in the Emma Rogers Room (10-340). The agenda will include a number of proxy questions. Info: Walter Milne, x3-5278.

Club Notes

MIT/DL Bridge Club**—ACBL Duplicate Bridge, Tuesdays 6pm, Rm W20-491.

MIT Duplicate Bridge Club*—Thursdays, 7pm, Rm 473 Student Center. All bridge players invited. Info: Adam Wildavsky, dl5-7687.

Cable TV

October 3-9, 1979	
Wednesday, October 3	Channel 8: 1-2pm THE EFFECT OF DEFORMATION OF THE EARTH ON LOCAL GRAVITY—Joseph Walsh, Dept. of Earth and Planetary Sciences. SKY LADDERS—Elizabeth Goldring, Center for Advanced Visual Studies. 3-4pm POLITICS, TELEVISION AND THE NEWS—David Sawyer, Media Consultant for the 1979 Mayor White Campaign; Ed Diamond, Dept. of Political Science.
Channel 12: 12-2pm CLASSIC LUNCH—"Hiroshima Mon Amour"—Directed by Alan Resnais—A French actress falls in love with a Japanese architect while working on a peace film in Hiroshima. 2-4pm CABLE VIEWER'S DEMAND—Call x7363 to request repeat of program or movie.	
Thursday, October 4	1-2:15pm THE IMPACT OF MODERNIZATION ON WOMEN'S ROLES IN DEVELOPING NATIONS—Carolyn Elliot, Center for Research on Women, Wellesley College. 2:15-4pm THE ROLE OF TELECOMMUNICATIONS IN DEVELOPING COUNTRIES—Robert J. Saunders, Chief, Telecommunications Division, World Bank; Nino Ursano, Director, Market Research and Business Planning, Western Electric International; John A. McCarthy, U.P. Engineering, American Bell International.

Chess Club*—Tournaments, speed chess for people of all strengths, every Saturday afternoon, fourth floor, Student Center. Info: Brad, 536-9596.

MIT Chinese Martial Arts Club-Wu-Tang*—Learn physical and mental discipline through the practice of Chinese Martial Arts, Kung-fu. Beginners welcome. New classes. Mondays and Wednesdays, 7-10pm; Saturdays, 11am-2pm, W20-491.

Folk Dance Club*—Sundays, International, all levels, 7:30-11pm, Sala de Puerto Rico; Tuesdays, Balkan, advanced, 7:30-11pm, Rm 407, Student Center; Wednesdays, Israeli, all levels, 7-11pm, Sala de Puerto Rico. Admission: 25¢ donation, optional. Info: dl5-9165.

Hobby Shop**—Complete facilities for woodworking, metalworking, and darkroom. Mon-Fri, 10am-6pm; Wed. 10am-9pm, W31-031. Fees: \$10/term students, \$15/term community. Info: 3-4343.

MIT Go Club*—Meets Mondays 8pm, Rm 4-145. Instruction for novices and beginners. Players of all ranks.

Rugby Football Club**—Practice every Tuesday and Thursday, 5:30pm, on the Pitch, Briggs Field. Matches and social every Saturday.

Beginning Sailing Instruction**—Every Monday and Thursday at 5:15pm in the Shore School of the Sailing Pavilion.

MIT Rocket Society*—Regular meeting, club business and launch information, first Tuesday of each month, 7pm, International Student Lounge (W50-210), one floor below MITRS Club Room.

MIT Shotokan Karate Club**—Rigorous training for self defense and physical and mental development. Black belt instruction. Practice Tuesdays and Fridays, 6-8pm, Varsity Club Lounge; Thursdays, 6-8pm, Dance Room. Beginners welcome. Info: Jim x3-3283.

MIT Table Tennis Club**—Meets every Monday, 8-10pm, T-Club Lounge, duPont Gymnasium.

MIT Tae Kwon-Do Club**—Korean martial arts, Wednesday, 7-9pm, Saturdays, noon-2pm, T-Club Lounge. Beginners welcome. Info: Chung Sun Kang, dl5-9272.

MIT Tiddlywinks Association*—Club meetings Wednesday, 8pm, usually West Lounge, Student Center, otherwise Rm W20-473 or 437; Saturdays, 1pm Student Center fourth floor. Beginners welcome.

Religious Activities

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

MIT Catholic Community*—Sunday Masses: 9am, 12 noon, 5pm, MIT Chapel. Weekday Masses: Tuesdays and Thursdays, 5:05pm, Fridays, 1:05pm; MIT Chapel. Charismatic prayer meeting following potluck supper, Mondays, 6:30pm, Ashdown Dining Rm. Info: Marjorie, x3-7222, Karen, 266-9525. Gospel Study and Prayer, Wednesdays, 8pm, 312 Memorial Dr.

Lutheran-Episcopal Ministry*—Interdenominational service of Holy Communion, Wednesdays, 5:10pm, MIT chapel. Supper follows in basement of 312 Memorial Dr.

Jewish Religious Services*—Orthodox: Fridays Sundown, K kosher Kitchen (50-005); Saturdays, 9am Bush Room (10-105); daily, 8am, Rm 7-102. Conservative/Reform: Fridays, 5pm, MIT Chapel.

MIT Vedanta Society*—Meditation and discourses on the Gita by Swami Sarvagatananda of the Ramakrishna Vedanta Society of Boston. Fridays, 5pm, Chapel.

Prayer Time and Bible Class*—1-2pm, Fridays, Rm 20E-207. Guest speakers, music, refreshments. Led by Miriam R. Eccles, founder and director, Alpha and Omega Missionary Society.

New UROP Listings

For more detailed information on UROP opportunities listed, MIT undergraduates should call or visit the Undergraduate Research Opportunities Program Office, Room 20B-141, Ext. 3-5049 or 3-4849 unless otherwise specified in the listing. Undergraduates are also urged to check with the UROP bulletin board in the main corridor of the Institute.

8-9pm	Prof. Ithiel De Sola Pool, Pol. Sci., Research Program of Comm. Policy. PHYSICS 8.01 LECTURE.
Channel 12: 12-2pm	CLASSIC LUNCH—"Threepenny Opera"—The screen version of Brecht's famous stage play. 2-4pm CABLE VIEWER'S DEMAND
Friday, October 5	Channel 8: 1-2pm AMERICAN TELEVISION: A CULTURAL HISTORY—"Aspects of Visual Literacy"—Prof. David Thorburn, Dept. of Humanities. 2-3pm VLB: A RADIO TELESCOPE AS BIG AS THE EARTH—Prof. Bernard Burke, Dept. of Physics. 3-4pm COMMUNITY TELEVISION—Tomas Rivera, Director, South End Telecommunications Demonstration Project IBA.
Channel 12: 12-2pm	CLASSIC LUNCH—"Threepenny Opera"—Repeat, Thursday, Oct. 4. 2-4pm CABLE VIEWER'S DEMAND.
Monday, October 8	NO PROGRAMMING—INSTITUTE HOLIDAY
Tuesday, October 9	Channel 8: 10am-12pm MIT At M.I.T. 2.1—CAVS Course on Communication & Mixed Media. Environmental Psychology and Environmental Art. Live. 9-10:30pm PHYSICS 8.01 HELP SESSION—Call your questions in to your tutor Lawrence Krauss and they will be answered. Dial x3-7212.

A REMINDER

Proposals for fall UROP support are now being accepted. Please submit them to the UROP coordinator in your faculty research supervisor's department.

MCLEAN HOSPITAL

Brainstem and thalamic nuclei important in visuo-motor control have in common high densities of opiate binding sites. Changes in the input-output functions of the visuo-motor system after pharmacological manipulations having known sites of action can be used to explore the role of opiate binding neurons and of endogenous opiates in visuo-motor control. Student(s) will assist in the collection and analysis of data using a PDP-11/40 mini-computer.

DEPARTMENT OF MATHEMATICS

A student is invited to help with a computer based empirical study of certain asymptotic properties of random sequences. Credit only. Contact Prof. Hartley Rogers at x3-2681.

CHILDREN'S HOSPITAL—DEPT. OF NEUROSCIENCE

Two research opportunities for students interested in neurophysiology, neuroanatomy and/or animal psychophysics. The research deals primarily with the effects of visual experience on the development of the central visual pathways, particularly as these effects relate to the human condition of amblyopia.

SOFT X-RAY SPECTROSCOPY

A student is invited to participate in the development and testing of diffractors for soft X-ray spectroscopy ultimately aiming toward a satellite X-ray astronomy instrument. Research will involve deposition of multilayer diffractors, and testing of those diffractors in a computer controlled, vacuum, soft X-ray facility. Contact Prof. C. Canizares, 37-501, x3-7500.

CHILDREN'S HOSPITAL

The Gait Analysis Lab is engaged in a series of biomechanical research projects aimed at improving knowledge of normal gait, as well as developing improved methods for evaluating and treating patients with gait pathologies. A student is invited to work on the interfacing of measurement instruments to a computer for data acquisition and processing, and on the evaluation and interpretation of the data obtained from these tests.

STELLAR INTERFEROMETER
A stellar astrometric interferometer is currently being developed which will ultimately be used 1) to measure the diameter of stars, 2) to measure the gravitational deflection of light, 3) to search for planets around other stars, and 4) to survey the Galaxy. Students with interest or experience in one or more of the following topics will be welcome: optical interferometers, real time minicomputer hardware/software, bit-slice microprogrammed signal processors, active optics or astronomy. Contact M. Shao, 26-315, x3-8130 or Prof. D.H. Staelin, 26-341, x3-3711.

LASER DIAGNOSTIC FOR COMBUSTION SOURCES

Tunable laser probes are being developed for monitoring trace species in fossil fuel combustions. Emphasis is on laser induced fluorescence excitation spectroscopy of potentially carcinogenic polynuclear aromatic hydrocarbons. A student is invited to assist in the following: 1) Development of interfaced modules for tunable dye lasers, data acquisition instrumentation 2) Measurement of excitation profiles for a series of PAH species. Contact Prof. J.I. Steinfeld, 2-221, x3-4525, or Dr. D. Coe, 2-011, x3-4524 or x3-6675.

Graduate Studies

GSC Executive Committee Meeting, 50-220, 5pm.

Pre- and Postdoctoral Study and Research Exchanges with USSR and Eastern Europe**—Applications available for 1980-81 academic year through National Academy of Sciences (NAS) and International Research and Exchanges Board (IREX). Applications and info: IREX, 655 Third Ave., New York, NY 10017, deadline Nov. 1. NAS, Section on USSR and Eastern Europe, Commission on International Relations, 2101 Constitution Ave., Washington, DC 20418. Deadline, Nov. 16.

Danforth Foundation Fellowships*—MIT Seniors entering first year of graduate study in September 1980 may apply for Danforth Foundation Prebaccalaureate Fellowship Awards. Submit a brief essay describing undergraduate educational and extra-curricular activities, detailed plans for doctoral study and career objectives in university teaching, and letter of nomination from a faculty advisor or counselor, to Dean Jeanne Richard, Graduate School Office, Rm 3-136 before Oct. 19. Personal interviews will be scheduled for Saturday, Nov. 3. Info: Dean Jeanne Richard, x3-4869.

Danforth Postbaccalaureate Fellowship Awards**—Graduate students may apply by submitting a short essay describing their graduate studies and plans for a career in university teaching in the US. Applicants must be pursuing a PhD program and hold a Master's degree or have 24 graduate course credits. Info: Graduate School Office, 3-136, x3-4869.

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Arms Experts Favor SALT II

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the right to build a missile equal in throw weight to the Soviet SS-18.

"The SS-18 is limited to 10 MIRVs (multiple independent re-entry vehicles), the same number as permitted for a new US missile. Since the military capability of these weapons depends primarily on their reliability, targetting flexibility, and accuracy—rather than on payload—the military significance of the extra Soviet throw weight of the SS-18s is not great. That is why there has been no serious US interest in building an ICBM as large as the SS-18 whether or not the treaty permitted it...Giving up the US right to build an equivalent weapon was giving up nothing the US was considering anyway...

"This suggests that if the SS-18 issue is the hottest substantive issue in SALT II there must be a shortage of substantive things to argue about."

While the Backfire bomber has the potential to attack US targets, it is not designed for intercontinental missions, the MIT experts say. Its exclusion from the limits placed on Russia "must be considered in the context of an overall bargain under which a variety of US and allied forces capable of nuclear attacks on the Soviet Union are not counted in the US aggregate—notably the Strategic Air Command's FB-111s, US bombers based in England, carrier-based aircraft and the French and British strategic forces..."

SALT II, the MIT arms experts say, is "the outcome of a bargaining process, not the outcome of a disinterested cooperative effort to define the 'best' answer to the

problem of controlling strategic armaments."

"A mistake made by some of the more passionate critics of SALT is to suppose that what is involved is a kind of zero sum game, so that if the agreement is good for the Russians, it must be no good for us. SALT takes place under the shadow of the nuclear threat to both

countries, and to humanity, that makes even the most tough-minded recognition of other conflicts of interest between the Soviet Union and the United States appear quite trivial.

"Given the very large forces on both sides, there is plenty of room for a bargain which will leave both sides, and the world, better off."

Area Coordinators, Solicitors Announced For Charity Drive

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you give will go to the agencies for services.

The Boston Black United Fund is dedicated to furthering self-help in Boston's black community. Fund Contributions will go to toward the funding of groups involved in the economic development and rehabilitation of Black neighborhoods, for education and job training, and community oriented projects.

Solicitors will have pledge cards for both the Boston Black United Fund and the United Way. Your pledges to either or both of the fund drives may be honored through payroll deduction.

Area Coordinators and chief solicitors for the 1979 United Way/BBUF Drive are:

Office of the President and Chancellor—area coordinator, Mary Morrissey, Rm 7-121, x3-1475; chief solicitors, Information Processing Services, Charles W. Libby, Rm 39-491, x3-7968; Office of the President and Chancellor, O. Jean Messier, Rm 3-209, x3-5912; News Office, Robert M. Byers, Rm 5-111, x3-2705; Dean for Student Affairs, Jane Dickson, Rm 7-101, x3-4164; Campus Information Services, Donald Longmeir, Rm 4-237, x3-1701; Athletics, Walter Alessi, Rm W32-127, x3-4919; MIT Press, Mary E.J. DeSesa, E32, x3-5646.

Office of the Provost—area coordinator, Joel Orlan, Rm 3-234, x3-7968; chief solicitors, Artificial Intelligence Laboratory, Karen Prendergast, Rm NE 43-817, x3-6218; Lowell Institute, Marie Faxio, Rm E19-738, x3-4895; Center for Cancer Research, Janet Romaine, Rm E17-227, x3-3025; Summer Session, Maria Murphy, Rm E19-356, x3-2101; Army ROTC/Naval Science, Mary Hovanian, Rm 20E-126, x3-4471; Center for International Studies, Dorothy L. Rice, Rm E38-659, x3-3132 and Jessie Janjigian, E38-656, x3-8067; Libraries, Frances Needleman, 14E-210, x3-5657; Aerospace Studies, Susan Warrington, 20E-111, x3-4472; Harvard/MIT Division of Health Sciences and Technology, Susan DeLyser, Rm 16-522, x3-4433; DSRE, Michael Garet, 20C-120B, x3-7354; Sea Grant, Lawrence McKinnon, E38-303, x3-7138, and Rita Queen, E38-366, x3-7138; Cell Culture Center, Natalie Sears, E17-321, x3-6430; Laboratory for Information and Decision Systems, Richard Osborne, Rm 35-308A, x3-2182.

School of Architecture and Planning—area coordinator, Donna Herlihy, Rm 4-209, x3-1524; chief solicitors, Dean's Office, Anne Russell, Rm 7-233, x3-4401; Department of Architecture, Nancy Jones, Rm 7-303, x3-4408; Department of Urban Studies and Planning, Mary Kathleen Grenham, Rm 7-338, x3-2022.

School of Engineering—area coordinator, Frederick J. Quivey, Rm E52-470, x3-2964; chief solicitors, Department of Aeronautics and Astronautics, Donna Savicki, Rm 33-211, x3-2269; Department of Electrical Engineering, Peggy Carney, Rm 38-444, x3-4603; High Voltage Research Laboratory, Rosemary Borneo, Rm N10-010, x3-2591; Center for Advanced Engineering Studies, Doreen Lopes, Rm 9-223, x3-7400; Department of Nuclear

Engineering, Clare Egan, Rm 24-204, x3-3814; Department of Civil Engineering, Trond Kaalstad, Rm 1-290, x3-7102; Center for Transportation Studies, Pam Shepherd, Rm 1-123, x3-7970; Department of Chemical Engineering, Selim Senkan, Rm 66-501, x3-3178; Department of Materials Science and Engineering, Joseph Dhosi, Rm 8-309A, x3-3301, and Heather Kraemer, Rm 8-309, x3-3525; Center for Policy Alternatives, Trish Alexander, Rm E40-250, x3-1663; Dean's Office, John Martuccelli, Rm 1-211, x3-8061.

School of Humanities and Social Science—area coordinator, Harriet Ritvo, 20D-204, x3-3470; chief solicitors, Department of Economics, Idella Tapley, Rm 52-373B, x3-3366; Department of Humanities, Robert MacMaster, Rm 14N-421, x3-2641.

Sloan School of Management—area coordinator, Esther Merrill, Rm E52-455C, x3-2931; chief solicitor, Operations Research Center, Martha Heigham, Rm 24-215, x3-3601.

School of Science—area coordinator, Robert Alberty, Rm 6-215, x3-2456; chief solicitors, Department of Meteorology, Edward Lorenz, Rm 54-1712, x3-4850; Department of Nutrition and Food Science, Michael Moskowitz, Rm 37-311, x3-3465 and Ramon Yi, Rm 16-318, x3-5100; Department of Biology, Elaine Petrino, Rm 56-519, x3-7924; Department of Mathematics, Barbara Baker, Rm 2-236, x3-4382; Department of Chemistry, Lawrence Ryan, Jr., Rm 18-388, x3-1802; Department of Physics, Felix Villars, Rm 6-311, x3-4843; Neurosciences Research Program, Nancy Burke, 522-6700; Department of Earth and Planetary Sciences, Douglas Pfeiffer, Rm 54-914, x3-2132; Dean's Office, Robert Alberty, Rm 6-215, x3-2456.

Office of the Vice President for Business and Fiscal Relations—area coordinator, John Doyle, E19-702, x3-3867; chief solicitors, Office of Sponsored Programs, Anthony R. Davis, Rm E19-702, x3-1441; Comptroller's Accounting Office, Edward Donnelly, Rm E19-530, x3-2769; Student Accounts, Etsuko Kumai, Rm E19-215, x3-4133; Lincoln Laboratory Fiscal Office, Margaret Fahey, Lin A-270, x181-662; Audit Division, Mary Jane Burke, Rm E19-655, x3-4136.

Office of the Vice President, Operations—area coordinator, John Terence Meehan, Rm E19-451, x3-6169; chief solicitors, Safety Office, John Fresina, Rm E19-207, x3-4736; Campus Patrol, Carol Hayes, Rm W31-215, x3-2996; Housing and Food Services, John Rutledge, Rm E18-306, x3-5146; Graphic Arts, Don Collupy, N42, x3-4765; Audio Visual, Marie Seamon, Rm 4-017, x3-2808; Physical Plant, Ted Doan, Rm E18-210, x3-4757; Planning Office, O.R. Simha, Rm 12-156, x3-5831; Purchasing, Mary Sullivan, Rm E18-360, x3-360, x3-7256; Office of Lab Supplies, Linda Warren, Rm 4-364, x3-4954; Endicott House, Ruth Norton, 326-5151; Faculty Club, Elizabeth Bedrosian, E52-6th floor, x3-2124.

Office of the Vice President for Administration and Personnel—area coordinator, Julia McLellan, Rm 3-108, x3-4791; chief solicitors, Admissions, H. Dany Siler, Rm 3-107, x3-4791; Personnel, Kathleen Rick, Rm E19-238, x3-4269, and Pat DePamphilis, Rm E19-239, x3-1674; Career Planning and Placement, Jane Wells, Rm 12-170, x3-4733; Quarter Century Club, Ann Perkins, Rm 50-356, x3-7914; Office of the Vice President, Lynda Linton, Rm 7-205, x3-4515.

Office of the Vice President of the Graduate School—chief solicitors, Arteriosclerosis Center, Josefa Sabio, Rm E17-416, x3-3022; Registrar, Mary Munroe, Rm E19-335, x3-4784; Medical Department, Bruce Biller, MD, 11-3rd fl, x3-7802, and Shirley Hjort, Rm 12-132, x3-1322; Radioactivity Center, Jane Winter, Rm 4-063, x3-4831.

Office of the Vice President for Research—area coordinator, Lillian Giuliana, Rm 7-206, x3-5914; chief solicitors, Laboratory for Nuclear Science, Brenden Costello, Rm 26-529, x3-7784 and Patricia Ryan, Rm 26-529, x3-7784; Center for Materials Science and Engineering, Deborah Asaiante, Rm 13-2098, x3-6850; Energy Laboratory, Barbara Johnson, Rm E40-115, x3-6126, and Diane Overlan, Rm 31-253, x3-1760; Research Laboratory of Electronics, John Peck, Rm 36-413, x3-2529; Center for Space Research, Anne Bowes, Rm 37-691, x3-3769; National Magnet Laboratory, James Coffin, Jr., Rm NW14-1110, x3-5506, and Daniel Sliski, Rm NW13-274, x3-5556; Nuclear Reactor Laboratory, Henry Bondar, Rm NW 12-210B, x3-4199.

Vice President, Resource Development—area coordinator, Roberta Carrara, Rm 10-256, x3-3841; Office of Planned Giving, Elizabeth Norton, Rm 10-282, x3-3827; Industrial Liaison Program, Janet Anderson, Rm 39-615, x3-2691.

Vice President and Treasurer of the Institute—area coordinator, Kimball Valentine, Rm 4-105, x3-2822.

Secretary of the Institute—area coordinator and chief solicitor, Ellen Reinhard, Rm 7-211, x3-2058.

Other Departments—Alumni Association, Ann Perry, Rm 10-115M, x3-8230; Credit Union, Kenneth Levie, Rm E19-601, x3-2844; MIT Associates, Janet L. Cronin, Rm 4-240, x3-6291; Lincoln Laboratory, John Kessler, LinA-163, x181-225, and Judith Crotty, Haystack, x181-56141; System Dynamics Group, Cherie Walleit, Rm E40-253, x3-1549; Micro-reproduction Lab, James Paton, Rm 14-0551, x3-5668.



Dr. Samuel A. Goldblith, right, professor of food science and vice president for resource development at MIT, receives a commemorative plaque at the close of a symposium and dinner held recently in his honor at MIT. Presenting the plaque is George C. Seybolt, chairman and chief executive officer of the Wm. Underwood Co., of Westwood, Mass. Dr. Goldblith was honored during the events on Monday, Sept. 24, 1979, for his contributions to food science and technology and also in celebration of his 60th birthday and his appointment as a vice president. Dr. Goldblith was the first Underwood-Prescott Professor of Food Science, a chair he held from 1974 to 1978. —Photo by Calvin Campbell

Dramashop Hopes to Perform Despite Closing Of Theater

MIT Dramashop is hoping to open its 1979-80 season on schedule, despite the loss of theater space because of the unexpected closing of Kresge Auditorium.

On the evenings of October 11, 12 and 13 the group is planning to present two one-act plays. *Don Perlimplin* by Federico Garcia Lorca and *Deathwatch* by Jean Genet. Though tickets are not normally required, free tickets may be issued to accommodate the MIT community if the event is forced to move to an off-campus location.

The space for this production is yet to be found. Assistant Professor Robert Scanlan, director of Dramashop, said he will try to keep this event and subsequent

one-act performances on campus in Walker Gym (third floor of the Walker Memorial Building). The Old Cambridge Baptist Church in Harvard Square is also being considered.

Since Kresge Auditorium was closed on Sept. 21, rehearsals have been scheduled primarily in dormitory living areas. Drama classes have been held in Burton Conner Dining Hall. The most serious problem the group has had to face to stay on schedule has been delays in securing shop space for the construction of sets and costumes.

According to Dr. Scanlan, the current situation highlights a growing need for space that he has explored in various proposals in the past two years.

Dr. Scanlan said he hopes to keep most drama activities on campus while Kresge Auditorium is closed. He expects to relocate the major performances during IAP and the spring term to off-campus theaters to meet the requirements of these large-scale productions.

Exhibit Planned On Building 20

The Compton Gallery Committee invites the MIT Community to participate in a special exhibition documenting past and present activities of Building 20.

Planned for the spring of 1980, the exhibition will focus on the history of Building 20, where the Institute's commitment to interdisciplinary and interdepartmental research began, which have grown to become a hallmark of MIT.

By concentrating on Building 20—a structure originally intended for temporary use only—the exhibition also promises to illuminate the relationship of the physical environment to evolving educational practices and research programs.

The Compton Gallery Committee is eager to find and identify as much documentation as possible. All photographs, mementos and anecdotes relating to any affiliation with Building 20 will be welcomed. Call Virginia Gunter, x3-5014, bring your materials to her Rm 7-145.

Cambridge Forum to Hear Susskind

Dr. Lawrence E. Susskind, professor and head of the MIT Department of Urban Studies and Planning, will be the first MIT speaker in this year's Cambridge Forum series on Problems and Prospects.

Professor Susskind will discuss "The Housing/Land Use/Growth Controversy" tonight (Wednesday, Oct. 3) at 8pm at The First Parish in Cambridge, 3 Church Street.

Next week's speaker, on Wednesday, Oct. 10, will be Dr. Jay W.

Forrester, Germeshausen Professor in the Sloan School of Management, whose topic will be "Inflation."

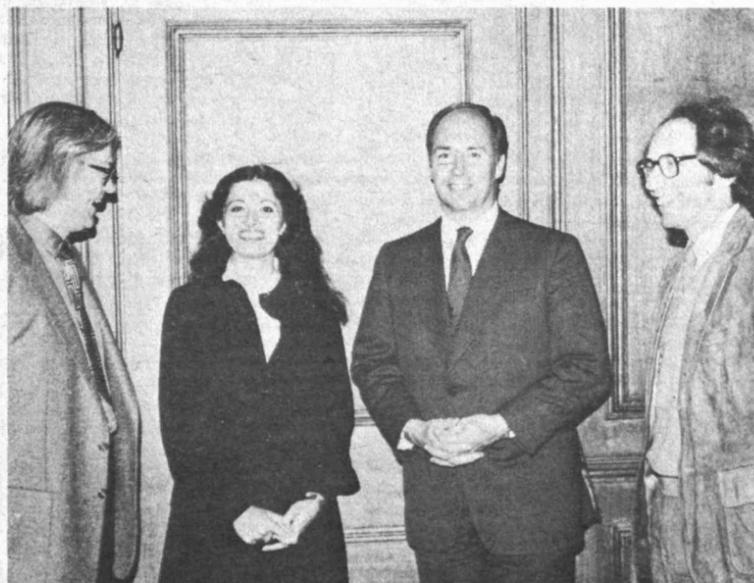
Cosponsors of the Cambridge Forum are The First Parish, the Lowell Institute, the MIT Chaplains and the United Ministry at Harvard and Radcliffe. All meetings are open to the public free of charge.

GSC Nominations For Committees

The Graduate Student Council (GSC) will hold interviews with graduate students interested in membership on several committees of the faculty and the Institute on Wednesday, Oct. 10, in Rms 4-159 and 161.

Faculty Committees with openings are: the Committee on Student Affairs, the Committee on Library Systems, the Committee on Discipline; Presidential Committees are: the Advisory Committee on Shareholder Responsibility, the Committee on Safety, the Commencement Committee, the Community Service Fund Board, the Committee on the Use of Humans as Experimental Subjects, the Committee on Radiation Protection, the Committee on Toxic Chemicals and the Committee on Assessment of Biohazards.

Graduate students interested in membership on any of these committees can make appointments for interviews by calling the GSC office, x3-2195. Sharon King, GSC vice president, is coordinator for the interviews.



His Highness The Aga Khan came to Cambridge Thursday (Sept. 27) to inaugurate the new MIT-Harvard Islamic architecture program and at MIT met Ms. Mina Marefat of Iran, the first MIT graduate student to receive a fellow Harvard Islamic architecture program and at MIT met Ms. Mina Marefat of Iran, the first MIT graduate student to receive a fellowship under the program. With them are Dean William L. Porter of the School of Architecture and Planning, right, and Stanford Anderson, professor of history and architecture and chairman of the search committee that will select the first Aga Khan professor at MIT. The Aga Khan established the architecture program last spring with a gift of \$11.5 million to MIT and Harvard.

THE INSTITUTE CALENDAR X3-3270

October 3
through
October 14

Events of Special Interest

10th Annual Plant Sale** — Sponsored by the Women's League. Thurs, Oct 4, starts at 9am, Student Center.

Fall Foliage Tour** — Sponsored by the Women's League. Fall Foliage tour to Old Sturbridge Village. Sat, Oct 13, 9am-5:30pm, leave from Sloan School parking lot. Tickets \$8 adults, \$4 children, cider & doughnuts served. Bring your lunch or buy it at Old Sturbridge Village.

Boris Amaratov, Greatest Russian Mime* — Sponsored by the Foreign Languages and Literatures Section of the Department of Humanities. Sun, Oct 14, 8pm, Rm 10-250. Free. For further information call Julia Alisandratos x3-4774.

Seminars & Lectures

Wednesday, Oct 3

On Campus Annuity Seminars* — Representatives will present tax deferred seminars. Prudential: 9am, noon, 3pm. TIAA/CREF: 10:30am, 1:30pm, 4pm. Rm 10-105.

Arabs in Israel, Indians in the Persian Gulf: Report on a Trip* — Prof Myron Weiner, political science. Center for International Studies, noon-2pm, CIS Seminar Room 2, E38-762.

Finite Amplitude Baroclinic Waves* — Joseph Pedlosky, W.H.O.I. Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-915. Coffee and tea provided.

The Numerical Computation of Nonlinear Supersonic Potential Flows* — Dr. Bernard Grossman, head, Theoretical Aerodynamics Laboratory, Grumman Aerospace Corporation. Aeronautics and Astronautics General Seminar, 3pm, Rm 36-153.

Minimum Time Attitude Control of a Spacecraft Spinning at a Constant Rate About Its Axis of Symmetry* — Charles Tse, doctoral thesis presentation, Aeronautics and Astronautics, 3:30pm, Rm 33-206.

Lead Effect on Temperature Regulation During Development* — Dr. A. Lorenzo, Children's Hospital Medical Center, Boston. Nutrition and Food Science Seminar, 4pm, Rm 66-168.

On the Numerical Solution of Nonlinear Equations and Nonlinear Least Squares* — Dr. Jorge More, applied mathematical division, Argonne National Laboratory. Laboratory for Information and Decision Systems Colloquium, 4pm, Rm 39-500.

Undergraduate Research in Physics Symposium* — Anthony Mezacappa, Quantum Communications, 4pm; Richard Furnstahl, Alcatel C Neutron Diagnostics, 4:20pm; Avery Meiksin, Observations of SCOX-1, 4:40pm, Rm 4-339. Refreshments served.

Thursday, Oct 4

Lincoln Laboratory Annuity Seminars* — Representatives will present tax deferred seminars. Prudential: 10:30am, 1:30pm, 4pm. TIAA/CREF: 9am, noon, 3pm, Lincoln Conference Rm A-166.

Reflections on the IEA, ORNL, MIT Joint Energy Workshop* — Prof David Rose. Nuclear Engineering Energy Assessment Group Seminar, 1-2:30pm, Rm 24-112.

Gravity Dominated Two-Phase flows in Vertical Rod Bundles* — Baldeo Singh, doctoral thesis presentation, mechanical engineering, 2pm, Rm 5-234

Analytical Techniques in Forensic Chemistry* — Dr. Michael J. Camp, Northeastern University. Analytical Chemistry Seminar, 4pm, Rm 8-205.

Approximations for Maximizing Submodular Functions: Theory and Applications* — Prof George L. Nemhauser, School of Operations Research and Industrial Engineering, Cornell University. Operations Research Center Seminar, 4pm, Rm24-121. Coffee and cookies served after the seminar.

Communications Services for the US Government* — Frank Carr, General Services Administration, Edward Zimmerman, NTIA and Joseph Licklider. Research Program on Communications Policy Seminar, 4-6pm, Rm 37-252.

Diagnostic and Prognostic Use of the Infant Cry* — H.L. Golub, PhD in Electrical Engineering, medical student in HST Program. Committee on Biomedical Engineering Seminar 4-5:30pm, Rm 37-212. Refreshments served.

Mixing in Laminar Flow* — Prof Lewis Erwin, Fluid Mechanics Seminar Series, 4pm, Rm 5-233. Refreshments served at 3:50pm.

The Perverse Behavior of Electrons in Amorphous Solids: There is More to Glasses than Meets the Eye* — Prof Marc Kastner, Physics Colloquium, 4pm, Rm 26-100. Tea served at 3:30pm, Rm 26-110.

A Simple Mechanism for Blocking* — Lee-Or Merkin, mathematics, Technion, Haifa, Israel and Eugenia Rivas, Laboratory for Atmospheric Sciences, NASA Goddard Space Flight Center, Greenbelt, Maryland, Meteorology Seminar, 4pm, Rm 54-425. Tea and coffee served at 3:30, Rm 54-923.

User Charges for Aircraft Operations: Implications and Problems* — Norman P. Seagrave, counselor, International and Regulatory Services, Pan American World Airways, Inc. Flight Transportation Laboratory Seminar Series, 4-5pm, Rm 35-225.

Roman Catholic Faith in the 20th Century* — Father Robert Moran, director, Tech Catholic Community. Sponsored by the Baptist Student Fellowship, 8pm, Ashdown House, 3rd Floor Lobby. Question/answer discussion following the seminar.

Friday, Oct 5

Chemical Engineering Seminars* — Daniel Dershowitz, Factors Affecting Degradation of Polymers in Dilute Solution Undergoing Extensional Flow, 2pm; Prof W. John Thomas, head, School of Chemical Engineering, University of Bath, U.K., The Effect of Surface Diffusion on the Catalytic Selectivity of Concurrent and Consecutive Reactions, 3pm, Rm 66-110.

Elemental Analysis CT — The Role of Data Processing Software* — David Laning, doctoral candidate, Nuclear Engineering Applied Radiation Physics Seminar, 3pm, Rm 24-115. Refreshments served.

Plasma in the Jovian Magnetosphere Post Voyager* — Prof John Belcher, Physics and Center for Space Research. Plasma Fusion Center Seminar, 3pm, Rm NW16-212.

The Free Surfaces of Liquid and Solid He* — Prof David Edwards, Ohio State University, physics. Center for Materials Science and Engineering Colloquium, 4pm, Rm 10-105. Coffee at 3:30pm.

Tuesday, Oct 9

Gas Chromatographic Mass Spectrometry (GCMS): Principles and Application* — Prof Klaus Biemann, chemistry. Center for Health Effects of Fossil Fuels Utilization Seminar, 3:30pm, Rm 66-360.

Binary X-Ray Pulsars* — Prof Saul A. Rappaport, Astrophysics Colloquium, 4:15pm, Rm 37-252. Coffee at 3:45pm.

Classical Aerodynamics Applies to Turbomachinery! (Despite allegations to the contrary)* — Prof J.E. McCune, aeronautics and astronautics. Aeronautics and Astronautics Seminar, 4:15pm, Rm 31-161.

Fibronectins, Cytoskeletons and Cellular Behavior* — Dr. Richard O. Hynes, biology. Biology Colloquium, 4:30pm, Rm 6-120. Coffee served at 4pm, Vestibule, 5th Floor, Bldg 56.

Wednesday, Oct 10

New Techniques for Global Positioning System Signal Tracking* — Michael Bowles, Draper Laboratory. Aeronautics and Astronautics General Seminar, 3pm, Rm 37-212.

Why Get an MBA* — James J. Foley, Associate Director of Admissions, Harvard Business School. Career Seminar, 3pm, Rm 4-149.

Seminars in Nuclear Engineering* — M. Modarres, 4pm and D. Litai, 4:45pm, Rm NW12-222.

Thursday, Oct. 11

Getting Along with Your Teenager* — Jennifer Coplon, M.S.W., Family Service Association of Greater Boston; Myra Rodrigues, M.S.W., medical department; and Mark Goldstein, MD, pediatrician will speak on adolescent growth and development at one of the sessions. Six-session group sponsored by the Medical Department, 11:30-1pm, Rm 10-340. For information and registration call the Health Information and Education Office, x3-1316.

Advanced Isotope Separation for Uranium: A Policy Survey* — Prof Richard Lester, Nuclear Engineering Energy Assessment Group Seminar, 1-2:30pm, Rm 24-112.

Magnetic Fields Generated by the Human Body* — Dr. David Cohen, research technical staff, National Magnet Laboratory. Committee on Biomedical Engineering Seminar, 4-5:30pm, Rm NW14. Refreshments served.

Multielectrode Voltammetry for Picogram Analyses* — Dr. Wayne Matson, Environmental Sciences Associates Inc. Analytical Chemistry Seminar, 4pm, Rm 8-205.

Particle Physics at Ultrahigh Energies* — S.C.C. Ting, Physics Colloquium, 4pm, Rm 26-100.

Salt II and the Strategic Balance* — Prof Jack Ruina, director of Arms Control and Defense Studies Program at MIT Center for International Studies. Disarmament Study Group Seminar, 5:15-6:30pm, Rm 4-231.

Friday, Oct 12

The Current State of Finite Element Methods and Some Exciting Developments* — Jurgen Bathe, Mechanical Engineering Seminar, 3pm, Rm 3-133.

Innovations in the Chemical Processing Industry* — Dr. Ralph Landau, chairman, Halcon International, Inc., Warren K. Lewis Lectureship. Chemical Engineering Seminar, 3pm, Rm 66-110.

Saturday, Oct 13

Symposium on the Management of Stress in Women** — Sponsored by the Womens Forum in Cooperation with the Medical Department. Registration, 2nd Floor Stratton Student Center, 8:30-9:15am; Introductory Remarks: Susan Black, and Dr. Stephen Aronson, 9:15-10am; Morning Workshop Sessions: Dr. Marilyn Chase, Dr. Stephen Aronson, Elizabeth Spark, MD, 10:15-11:45am; luncheon served, Sala de Puerto Rico, 11:45-12:45pm; Keynote Address, all participants and Dr. Herber Benson, 1-2:30pm; Afternoon Workshop Sessions: Leo Dauwer, Ronald Fleming, Joanne Bluestone, Maggie Lettvin, 2:45-4:15pm; closing remarks and refreshments served, 4:30-5:30pm, Stratton Student Center. No childcare provided. Registration is closed. Effective Oct 5, noon: Registration fee non-refundable.

Community Meetings

Bioelectrical Engineering Open House** — Sponsored by the Area VII, A.K.A. Bioelectrical Engineering of the Electrical Engineering and Computer Science Department. Tour some of the labs, excellent opportunity for new graduate students to meet faculty members and to discover what Area VII has to offer. Wed, Oct 3, 3-6pm, Rm 36-428. Refreshments will be served.

Wives'Group** — Robert Sherwood, Associate Dean of Student Affairs, will speak on "Life at MIT". Wed, Oct 3, 3-5pm, West Lounge, Student Center. Babysitting provided, Rm 473, Student Center. All women in the community cordially invited.

Association of Computing Machinery Meeting* — Sponsored by the Chapter of ACM. Regular chapter meeting, to be followed immediately a planning meeting of all those interested in helping out for the programming contest. Thurs, Oct 4, 5pm, Rm 8-105.

IAP in Germany** — Meeting for students interested in a three week trip in Jan 1980 to Germany. Thurs, Oct 4, 7pm, Rm 14N-313. Call for information: Prof Jay Rosellini x3-4775.

Meeting Needs and Setting Limits** — Susan Jacobson, MSW, from Beth Israel Hospital will speak. Prenatal and Parent Education Group Meeting. Wed, Oct 10, noon, 3rd Floor conference room, Infirmary, Bldg W5. Bring your lunch, beverages provided. Information call x3-1316.

Wives'Group** — "Seeing Boston and Surroundings," presented by Tunie Barriger. Wed, Oct 10, 3-5pm, West Lounge, Student Center. All women in the community cordially invited.

Parent-Toddler Art Ages 2-3* — Sponsored by the Student Art Association. Eight, one hour sessions, interacting with your toddler in a variety of art media, several choices such as paint, plasticene pasting will be provided. Registration: \$30 for students; \$40 for others. Starting early Oct, Wed, 10am, Rm 425 Student Center. For information call x3-7019.

24 Hour Access to Darkroom Available at Student Art Association** Chemicals provided also room in special projects in photography for people who know basics. Call 253-7019 between 1-5pm, Student Center, Rm W20-429.

Lobby 7 Events

United Way Fund Campaign Begins* — Wed, Oct 3, 11am-2pm.

Greg Greenway Band* — Thurs, Oct 4, noon-1pm.

Photographs from the Student Art Association* — On view in the Bldg 7 display cases through Oct 22.

Brass Ensemble* — Fri, Oct 5, noon-1pm.

Amy Davidson Quartet* — Wed, Oct 10, noon-1pm.

Brass Ensemble* — Fri, Oct 12, noon-1pm.

Social Events

Undergraduate Economics Association Faculty Lunch** — Prof Farber will speak, freshmen welcome. Wed, Oct 3, noon, Rm E52-391.

Wine Tasting Gathering** — Prof Brian McCay, mathematics will speak. Sponsored by the Technology Wives Organization. Wine tasting lecture and experience. Thurs, Oct 4, 7:30pm, Eastgate Lounge. Fee:\$3 members & spouses; \$5 non-members/two guests. Enrollment limited to 30 people. Call Donna Behmer 876-5777.

Octoberfest*** — German buffet with assorted breads and apple strudel, \$8.50 incl. tax. Wed, Oct 10, Faculty Club. For reservations call x3-4896.

Faculty Club*** — Open Monday through Friday: Luncheon served noon-2pm; Dinner served 5:30-8pm. Happy Hour: Monday through Friday, 4:30-6:30pm, wide variety of drinks \$1.05.

Movies

Love of Jeanne** — Department of Humanities Film Series. Wed, Oct 3, 7pm, Rm 66-110. Free.

Cousin, Cousine** — LSC Movie. Fri, Oct 5, 7 & 9:30pm, Rm 26-100. Admission: 75c w/MIT or Wellesley ID.

The Blue Angel** — LSC Classic Film Series. Fri, Oct 5, 7:30pm, Rm 10-250. Admission: 75c w/MIT or Wellesley ID.

Interiors** — LSC Movie. Sat, Oct 6, 7 & 9:30pm, Rm 26-100. Admission: 75c w/MIT or Wellesley ID.

Three Penny Opera** — Department of Humanities Film Series. German w/English subtitles. Sat, Oct 6, 7pm, Rm 66-110. Free.

Lolita** — LSC Movie. Sun, Oct 7, 6 & 9:30pm, Rm 26-100. Admission: 75c w/MIT or Wellesley ID.

Childhood of Maxim Gorky** — Department of Humanities Film Series. Russian w/English subtitles. Wed, Oct 10, 7pm, Rm 9-150. Free.

M** — Department of Humanities Film Series. German w/English subtitles. Wed, Oct 10, 7pm, Rm 66-110. Free.

Death on the Nile** — LSC Movie. Fri, Oct 12, 7 & 10pm, Rm 26-100. Admission: 75c w/MIT or Wellesley ID.

The China Syndrome** — LSC Movie. Sat, Oct 13, 7 & 10pm, Kresge Auditorium. Admission: 75c w/MIT or Wellesley ID.

Psycho** — LSC Movie. Sun, Oct 14, 6:30 & 9pm, Rm 26-100. Admission: 75c w/MIT or Wellesley ID.

Music

Guest Artist Concert* — From the Music Section. LaSalle String Quartet, program will include Mozart's Quartet in A Major, K. 464, Samuel's Quartet No. 1 (Boston premiere) and Mendelssohn's Quartet in A Minor, Op. 13. Sun, Oct 7, 8pm, Rm 10-250. Free.

Chamber Players* — Students and faculty with guest musicians will perform Holst's Terzetto, Ravel's Piano Trio, Schuller's Trio for oboe, horn & viola, and Beethoven's Sextet. Sat, Oct 13, 8pm, Rm 10-250. Free.

Exhibits

Exhibition and Sale of Original Graphic Art** — Leading American and European artists, both contemporary and old masters, Beardsley, Daumier, Homer, Calder, Chagall, Gia Cometti, Maillol, Miro, etc. Speaker representative from Marson Graphics Inc. Sponsored by the Student Art Association. Oct 4 & 5, 10am-6:30pm, West Lounge. Information call 253-7019.

Corners* — From the Committee on the Visual Arts. On view daily 10am-4pm; Wed evenings, 6-9pm, through Nov 4, Hayden Gallery, 160 Memorial Drive, Camb, Mass.

Jim Pomeroy* — From the Committee on the Visual Arts. On view daily 10am-4pm; Wed evening, 6-9pm, through Nov 4, Hayden Corridor Gallery, 160 Memorial Drive, Camb, Mass.

Fantastic Photography* — Sponsored by the Creative Photography Gallery. American premier at MIT, includes the work of some 39 European and American photographers. Organized by the Canon Photo Gallery, Amsterdam, The Netherlands. On view Mon-Fri, 9am-10pm; Sat 10am-6pm; Sun noon-8pm, through Oct 18. For information call x3-4424, Creative Photography Gallery, 120 Mass Ave, 3rd floor, Camb, Mass.

Don Mili* — Sponsored by the Compton Gallery Committee. A '27 graduate of MIT, he is a noted photographer whose work for Time-LIFE Magazine; his vioneer use of strobe lighting; and his documentation of MIT will be exhibited. On view daily, Mon-Fri, 10am-5pm; weekends, 1-5pm, through Jan 31, 1980, Margaret Hutchinson Compton Gallery, Alumni Center, Rm 10-105. For information call 253-5014.

Hart Nautical Museum* — Permanent exhibit of rigged merchant and naval ship models, half models of yachts and engine models. Open daily in Bldg 5, 1st floor.

MIT Historical Collections* — Vannevar Bush, '16, Bldg 4 corridor. The New Technology Exhibit, 2nd floor balcony of Lobby 7. Energy Exhibit, Bldg E40, 1st floor. Solar Energy, Bldg 8, main corridor. Harvard-MIT Rehabilitation Engineering Center, main corridor, Bldg 4. Rogers Building Exhibit, Bldg 4. Meteorology, main corridor, Bldg 8. Norbert Wiener, and Karl Taylor Compton, Bldg 4. Laboratory for Physical Chemistry, Bldg 6.

New Records* — Music Library, Rm 14E-109. Exhibit of record jackets or recent Library purchases.

The Outdoor Collection* — There are many fine pieces of contemporary sculpture displayed on the MIT campus, including works by Alexander Calder, Louise Nevelson, Pablo Picasso, Henry Moore, Tony Smith and Jacques Lipschitz. For information and guides to the campus, call the Information Center, x3-4795.

Photographs* — Exhibition of works by Linda Cuccurullo, Rotch Library catalogue. On view through Oct 5, Mon-Fri, 8:30am-6pm, Rotch Library Visual Collections, Rm 7-304.

MIT Science Fiction Society* — Come and visit the world's largest lending science fiction library. Hours posted on door, Rm W20-421.

Strobe Alley* — High speed photographs by Harold E. Edgerton, Institute Professor and Professor of Electrical Measurement, Emeritus. Bldg 4, 4th floor.

Athletics

Home Schedule* — Oct 3: M Tennis, Boston University, 3pm; W Tennis, Tufts, 3:30pm; Water Polo, Boston College, 5pm. Oct 4: Baseball, Brandeis, 3:30pm; Field Hockey, Endicott Jr College, 4:30pm; W Volleyball, Boston College, 7pm. Oct 5: Cross Country, Lowell, 3:30pm, (Franklin Park); JV Soccer, Harvard, 3pm. Oct 6: Baseball, Babson, noon; M Sailing, 3-Crew team race, 9:30am; W Volleyball, Eastern Nazarene & Smith, 1pm. Oct 6 & 7: W Tennis, GBCAA. Oct 7: Frosh Sailing, MIT Invitational, 9:30am. Oct 8: Baseball, Lowell (2), noon. Oct 10: Water Polo, Phillips Exeter, 3:30; JV Water Polo, Phillips Exeter, 3:30pm. Oct 11: W Tennis, Clark, 4pm. Oct 12: V W Tennis, Holy Cross College, 3pm. Oct 13: Baseball, Bentley, 11:30am; Field Hockey, Clark, 10:30am; Club Football, NY Maritime, 1:30pm; JV Soccer, Emerson, 10am; M Sailing, New England Team Racing Championship Elimination, 9:30am; W Volleyball, Massachusetts, 1pm; JV W Volleyball, 1pm.

Dance

Informal Dance* — Sponsored by the Ballroom Dance Club. An informal dance. Fri, Oct 5, 8pm-midnight, Sala de Puerto Rico, Student Center. Admission: \$1. Information call Haroon 536-1300.

Advanced Cha-Cha Workshop* — Sponsored by the Ballroom Dance Club. An advanced workshop in Cha-Cha, taught by a professional. Sun, Oct 7, 2-4pm, Sala de Puerto Rico, Student Center. Admission: \$1. Required: membership card and attendance of 3 previous workshops including beginning Cha-Cha. Information call: Haroon 536-1300.

Dance Workshop* — Regular meetings Technique classes, Mon & Wed, 3-5pm; Improvisation, Thurs, 1-3pm, T-Club Lounge, DuPont Center. For information call 253-4456.

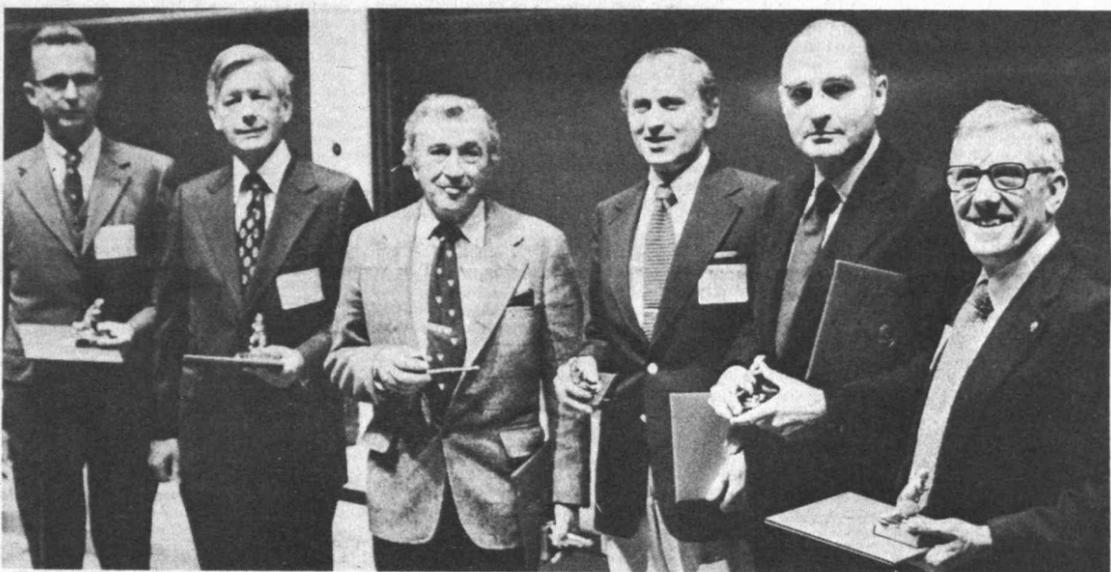
Freshmen are encouraged to attend departmental lectures and seminars. Even when these are highly technical they provide students one means to learn more about professional work in a department and field.

*Open to the public
**Open to the MIT community only
***Open to members only
Send notices for Oct 10 through Oct 21 to Calendar Editor, Rm 5-113, x3-3270, before Noon, Friday, Oct 5.



ALUMNI PRESIDENTIAL CITATION was awarded during the Alumni Officers Conference to the Building 10 Sponsoring Committee which coordinated the renovation of Huntington Hall and the creation of

the Alumni Center and Compton Gallery. From the left are Breene M. Kerr, committee chairman; Kenneth G. Fettig, Kenneth J. Germeshausen, Paul Hotte, Paul P. Shepherd and John J. Wilson.



BRONZE BEAVER WINNERS—The Alumni Association's highest award was given to these men at the 1979 Alumni Officers Conference. From the left are Thomas H. Farquhar, Jack Page, MIT President

Jerome B. Wiesner, S. James Goldstein, Hugh Parker and Peter M. Bernays. Edward J. Hanley, also presented a Bronze Beaver, could not attend because of illness.



EDUCATIONAL COUNSELORS HONORED—Recognized for exceptional service with the initial presentations of the George B. Morgan Award, named for the "dean" of educational counselors, who is seated at center, were, standing from left, Walter

L. Helmreich, Paul A. Lux, Edwin Newton and Victor Ransom. Flanking Mr. Morgan, who holds the award given to his colleagues, are James S. Offutt, left, and Albert L. Kaye.

—Photos by Calvin Campbell

Alumni Contributions Cited At Annual Conference

The MIT Alumni Association honored seven of its members with the Bronze Beaver—the association's highest award—at the 1979 Alumni Officers Conference Friday and Saturday, Sept. 28-29.

Among those honored was Dr. Jerome B. Wiesner, president of MIT, who will retire at the end of the academic year. Dr. Wiesner, an honorary member of the Alumni Association, received a standing ovation when his name was announced.

Other Bronze Beaver recipients were:

Edward J. Hanley, '24; Peter M. Bernays, '39; Hugh Parker, '43; S. James Goldstein, '46; Jack C. Page, '48; and Thomas H. Farquhar, '60.

The association also honored 12 of its members with the Harold E. Lobbell '17 Distinguished Service Award. Claude W. Brenner, '47, association president, said the Lobbell award—named for the former dean of students at MIT—recognizes superlative service in a specific area. The Bronze Beaver is reserved for those whose service, because of their longer association with MIT, has been superlative in many areas.

Recipients of the Lobbell Award were:

Eugene Becken, '52, New York; Carroll J. Brown, '46, New York; Vito A. Caravito, '62, Akron, Ohio; Raymond Danon, '58, Mexico; Myron A. Exelbert, '63, New York; Arnold A. Kramer, '52, Worcester; Robert Lindquist, '51, Portland, Maine; Joseph P. McBrien, '31, San Francisco; Terence K. McMahon, '57, Northern New Jersey; Philip L. Molten, '55, Northern California; Gregory L. Schaffer, '65, San Diego, and Frank R. Shaw, '24, Wellesley, Mass.

Also honored by the association were nine members of the Educational Council who received the initial presentations of a new award recognizing extraordinary service to the council. The award is named for George B. Morgan, Class of 1920, who was referred to as the "dean" of educational counselors. Mr. Morgan was on hand for the presentation.

Recipients of the Morgan awards were Walter L. Helmreich, '40, Ann Arbor, Mich.; Dr. Albert L. Kaye, '31, Chicago; Paul A. Lux, '52, St. Louis; Edwin Newton, '58, Rochester-Buffalo; James S. Offutt, '26, Chicago; Victor Ransom, '48, New Jersey; Beaumert Whitton, '33, Charlotte, N.C.; Lewis R. Aldrich, Jr., '29, Montana; Everett P. Weatherly, Jr., '29, Kansas City.

The Bronze Beaver awards, presented by Mr. Brenner, included the following citations:

Dr. Wiesner—Always sensitive to the needs of the alumni, he has been enthusiastically supportive whenever his advice or assistance were sought. To the lasting benefit of the association, his leadership has been direct, yet extraordinarily human.

Mr. Hanley—For five decades he has unstintingly served the association and MIT in an extraordinary variety of positions, outstanding among them being his 20

years of service on the MIT Corporation under four presidents and as the 66th president of the Alumni Association.

Mr. Bernays—With his organizational precision and infectious enthusiasm, he is Mr. MIT of the Columbus, Ohio, area... Many years of devoted service to the MIT Club of Central Ohio, the Alumni Fund, and the Educational Council exemplify the highest qualities of local leadership.

Mr. Parker—Innovative, energetic and thorough, Hugh has diligently maintained an MIT presence in Great Britain as the president of the MIT Club of London. Indeed, the very significant growth in MIT's interaction with British industry is attributable largely to Hugh's magnificent efforts. A highly effective ambassador throughout Europe, his efforts have encouraged a substantial number of organizations to affiliate with MIT through the Industrial Liaison Program.

Mr. Goldstein—Jim has brought unusual energy, creativity, and initiative to each of the many activities which he has served. He has a deep knowledge of the MIT community and has always looked beyond the immediate impact of alumni-related issues to the broader context of MIT's future success.

Mr. Page—A prime mover in countless association activities—locally and nationally—for the MIT Club of Dallas, the Class of 1948, the Alumni Fund, the Leadership Campaign and the Educational Council. His range of service over the years exemplifies the MIT spirit of excellence.

Mr. Farquhar—The Alumni Association has benefited profoundly from Tom's steadfast service as class officer, club and fund volunteer, and for the past two years, chairman of the Fund Board. Tom's incisive counsel on the design and implementation of crucial programs and his informed leadership of the fund was, in no small measure, responsible for the record-breaking successes in 1978 and 1979.

Joseph A. Edwards, director of the Education Council, presided at the meeting at which the Morgan Awards were presented. He referred to Mr. Morgan as the "dean" of educational counselors and said his work to interest high school students in MIT precedes the Educational Council by many years.

The association also presented a Presidential Citation to the Building 10 Sponsoring Committee. The group, headed by Breene M. Kerr, '51, chairman, coordinated the renovation of Huntington Hall, Rm 10-250, and the creation of the Compton Gallery and the Alumni Center.

Walker Wins Grant

James D. Walker, a senior in earth and planetary sciences, has been awarded a \$300 grant in aid for 1979-80 by the American Association of Petroleum Geologists. The grant was given to help support work described in Walker's proposal, "A Wind Tunnel Investigation of Wind Ripples."

CLASSIFIED ADS X3-3270

Ads are limited to one per person per issue and may not be repeated in successive issues. All ads must be accompanied by full name and Institute extension. Persons who have no extensions or who wish to list only home telephones may submit ads by coming in person to the *Tech Talk* office, Rm 5-113, and presenting Institute identification. Ads may be telephoned to x3-3270 or mailed to Rm 5-113. **Deadline is noon Friday before publication.**

For Sale, Etc.

Assorted contemp art prints, Wyeth, Picasso, etc. some framed, slip sofa, \$175; antique writing desk, \$35; oak chr. \$25. Call 6-11pm, 354-3656.

Wicker; desks; chrs; rugs; bureaus; bkcases; K set; beds; trunks; suit cases; ski & tennis equip; lg mirror; typewrtr & clothing, can be seen, 10am-4pm, Oct 6, 37 Croton St, Wellesley; or call 235-4133.

Smith corona port elect typewrtr, \$50; old fash white satin wedding dress, fl shirt & train, \$20; gr 8x10 rug \$15; lthr handbags. Call Lisa x3-4113 or 661-2955 eves.

Custom made walnut wall hung buffet w/classic mod lines, 7'L, 2 fitted drawers for flatware, 3 open sec for records, art, etc, \$100 or best. Call x3-3126 or 492-5834 eves.

2 chests of drawers, both 41hx30wx16d, \$20 ea; gr rug, 10x12, a bit worn, \$10; lg suitcase, \$5; bed frme adj, metal, on rollers, \$5; tie ski boots, sz 10 M. \$5; wood well planter, \$10. Call 547-3721.

Wedgewood Qu, nvr used, white 5 pc place settings, 4, org \$100, ask best: tw coil sprng matt, exc cond, \$15 ea & more; GE port Victrola, \$25. Call 965-2683.

10 spd M bike 21" Getane, exc cond, \$225, ask \$150. Call 354-4736 eves.

Prog calculator TI-59, brnd nw w/everything, \$160 or best. Call RM 965-4624 x188.

Nw Delco AM/FM car radio, org cost, \$120, sell for \$65. Call Rim x7501 Lincl.

Baled hay for sale. Call George x3-2398.

Hair dryer, port Dominion Relaxable bonnet w/4 ht settings, \$15. Call Helen x8-3505 Draper.

Brnd nw M imported 10 spd bike, org \$200, ask \$125. Call Judi x3-2686 from 9-1 daily.

Hoover port apt sz wash mach, 5 yrs old. Call x3-3821.

Panasonic all-in-one stereo w/csstt, \$100; refrig free if you move it. Call x5-6586 Dorm aft 3pm.

Solid rock maple bunk beds, complete w/ladder & side rail, springs, matt, \$250; hidabed sofa, black ltherette, exc cond, \$185. Call 648-7757.

Rigid blk wire mesh frpic screen, \$10. Call x7218 Lincl.

Ir snows 4 ply 155x13, \$30/pr, org \$25 ea, owner moved to AZ. Call x3-2184.

Free elect stove, you move from Quincy. Call Stephen x8280 Lincl.

Symphony tickets, pr lst bal seats, \$9.50 ea. Oct 16. Call Beth x3-3896.

Snows, C78-14, lk nw, \$25. Call x3-7783.

Stereo csstt FM/AM for sale, STAL mod SA-900 & pr Jensen B-Axial spkrs, \$125 or best. Call Brian Armstrong 494-0413 or lv msg at Burton Desk x3-3261.

Glass dine-K tble, 40" square, \$50; also Panasonic stereo & spkrs, \$75. Call x3-4602.

Marantz recvr, 15 wats pr chan, lss than 2 yrs old, \$125 or best. Call Bob 277-4823 eves.

Atlantic #124 wood stove, cast iron fire box, 23x-12x15, nw \$180. Call x3-5715.

3 working oil burners, mny nw parts, make an offer for all or part. Call x3-8355.

Baby carriage w/pad, \$20; red sisal-fiber rug, 12x15, \$35. Call 489-3161.

Pr snows, virtually unusr, 165 SR14, best. Call 353-0570 late eves.

Pr snows, studded w/rims F78-14, \$50! 600 hvb fr manila folders w/cloth bindings, 10c ea. Call Geo. Blair 492-1403 aft 5pm.

TI-59 calculator w/PC-100C printer, 12 volt adptr, spare cards & paper, all in exc cond w/org boxes, instruction books, etc. \$270. Call Nick x3-6809.

Epiphone guitar, D'Amico pickup, grover heads, \$50; Sears csstt recdr, \$35; drafting tble, \$50. Call 491-0241 eves, kp try.

BSO several prs, sat night tickets. Call Roger x3-2691.

Old oak sch teachers desk, 41" x27" w/5 drawers, complyt refinished, \$130; Mission oak bench or foot stool, 15" h w/dark br lthr top, \$22; old 3 drawer bureau 18x36", nds to be refinished. Call 862-0312.

Zildgen symbols, 20", 16" & 2 13" w/hi-hat. Call Dick x7440 Lincl.

Ford AM/FM stereo car radio guaranteed gd wkg cond w/2 underseat spkrs, \$60. Call Jack x8-3235 Draper.

K tble formica top, \$10; Hamilton Beach Dial-a-Pot slow cooker & fryer, br nw, \$8; 10x15 red rug, yr old, gd cond, \$45; set pots & pans, gd cond, \$8. Call 354-6337.

Dble bed box sprng & matt, \$50. Call Tim x3-1708.

Sankyo csstt deck, mod STD 1410 w/dolby, vy gd cond, \$70. Call x3-5797 or 868-3243 eves.

MCS recvr 33 w/ch; Bass Tred & Mid; dubbing, yr old, wrntty fr 2 more yrs, \$250; Sankyo STD 1410 csstt deck w/dolby, \$60. Call George B. 247-8764.

Westinghse refrig 16cf, gd cond, \$50. Call Phyllis x8-1308 Draper.

Rubber bike pedals, Motobecane, upright handlebars, sdpull brks, best; Westinghse roaster oven, \$20; Rotobroil broiler over, \$20; 25" 10 spd ike, nds chr & whls, \$40; Universal Tiger power amp, mono, 100 watts, \$70; & more. Call Gerald x3-4726 or 536-0823.

Sofa, \$350; match wing chr, \$175; club chr w/ottoman, \$200; beige carpet 9x12, \$150; DR set w/6 chrs, \$225; pink shag rug, 6x12, \$80; marble top coffee tble, \$175. Call x8-1533 Draper or 536-8483 eves.

Glass coffee tble on chrome base, 44" sq, \$75; org \$300; child's Trak x-country ski boots, sz 30, perfect cond, \$13; child's sz 12 dunham hiking boots, worn twice, \$11. Call Larry x3-7810

Lk nw OSI 8K 6502 computer, Monitor, modem & software, breakout, othello, disassembler, etc avail. Fast BASIC, mach language & graphics, \$550-800, nego. Call x5-7117 Dorm.

SCM elec typwrtr, \$75; sturdy typewrtr stand, \$15; 2 drawer file cab, \$40; 3 shelf bkcase, \$10. Call Bruce x3-7814 or 776-6427 eves.

Nw sz 9 M navy sneakers, nvr worn. Call x3-1316.

11x14 dk gr sculptured rug w/extra pc 11x23 padding for full rug \$100. Call x3-7883.

Pr soccer shoes, Puma King Pele, nw, sz 12 1/2, \$35 or best; pr alpine skis, Hart Cutlass, nw, sz 205 cm, \$35 or best; pr ski bindings, Salomon 555 Racing, exc cond, \$50 or best; pr ski boots, Nordica flow high-back, gd cond sz 12, \$20 or best. Call Eli 965-2775 eves or x3-3592.

Sofabed \$50; microwave oven, pans & cookbookm \$300. Call Scotti x3-6345

Teak and cane headboard for dble bed, \$75; lg teak desk w/3 drawers plus file drawer & bkshelve frnt, \$350, both in exc cond. Call x56-291 Haystack Obs, or 779-6473.

Microscope E. Lietz, binocular, medical type, gd cond, \$350; surgical lamp, \$100; high quality binoculars, usd, exc cond, \$35. Call 738-7734 aft 6pm.

12x15 gr rug, \$50; round trip ticket to Salt Lake City. Call x3-7669 or 734-5496 eves & wkends.

Pr F78-14 snows, bltd, gd cond, \$12 pr; 1 815-15 white wall, 4 ply exc spare, \$3; 1 E78-14 Delta Custom 78S, bltd, gd tread except line wear on out-sd, \$5. Call Irv x5782 Lincl.

Smith Corona 8000 port elect office typewrtr w-case rarely used just cleaned, \$350 or best. Call John x3-6848.

Old upright piano gd sound, nds tuning, \$300 or best. Call x3-6452 or 494-0213.

Kneissl skis w/Look-Nevada bindings; birdcage, lg metal, both exc cond, best. CCALL Jerry x3-2309 or 262-3894 eves.

40" playpen, brnd nw, \$50; sell for \$30; 19" B&W TV, \$20. Call 494-8259.

Pr Koss hdphones, mod K/6A, \$25. Call x5-7429 Dorm.

1-way plane ticket, United Air, Bos to Chicago or Cedar Rapids, riowa, bargain prc. Call 628-4098.

Bike Raleigh Sports, 3 spd W 26", lk nw, \$50; figure skates 3 prs Hsde, blk, sz 12 1/2 & 3. \$8 ea. Call x3-6168.

Pr Rossignol 102 skis, sz 180 w/bindings, \$100. Call Evelyn x3-6511.

15x16 GM whl, 5" dia bolt hole circle, \$8. Call x3-3403.

Baby clothes; tw bed sd tbles; single bed steel frme; bean bag chr; Greek Fl kati rug. Call 277-2193 eves.

Raleigh Sports M bike, 3 spd, gd cond, \$75; dble decker bunk bed w/foam matt, \$50. Call Bill x5809 Lincl.

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Animals

Free to gd home, part Pointer/Lab, 3 yrs old nds love & affection. Call x3-2851 or 876-2676 aft 6pm.

Burmese cats 2 adult neuter M, free to gd hme, org owner died, & I can't kp them. Pls call Jeannine x3-2163.

Temporary foster home wntd for 2 friendly well-trained adult dogs, for 1 to 2 wks, we wll pay \$50 per wk + all food. Call Wilson 876-6326.

AKC reg Golden Ret pups, 6 wks old, champ stock, M & F. Call x3-6085.

Lost and Found

Lost: Gold religious medal, Sacred Heart w/c n, high sentimental value, lost in area of gym or Briggs Field, reward! Call Charlie 536-3931.

Ring found in Mezz lng on Aug 28 at Rmmate Get-Together. Call Judy x3-1590 w/description.

Wanted

Furn rm or studio in Arl. Call Carol x3-4336.

Post doc in math nds sm sublet apt until Xmas. Call Carol x3-4336.

Babysitter needed for 2 mo old baby G, Oct 22, 3:30-midnight or 8am-midnight. Call 232-0206 aft 6pm.

Student to repr MIT-student installed home burglar sys, fee nego. Call A. Koumans x3-2916.

Nd ride to & from Newton Ctr area to MIT. Call Rachel x3-2584.

Couple arriving fm Canada nd 2 BR apt for yr starting 10/15, Camb or environs. Call D. Kelland x3-5550, 2 BR apt for yr starting 10/15, Camb or environs. Call D. Kelland x3-5550.

Old sofa vending mach, any cond. Call Robert 494-8452.

Rd to Montreal for Canadian Thanksgiving, desire Oct 4 departure. Call Gary 494-0290.

Family of 6 would lk to rent ski hse for 1 or 2 wksnds a mo for season. Call Dr. Rochelle Friedman x3-2916 or 965-0536 eves.

Someone to help design IAP activity for stamp collectors to meet informally & exchange stamps. Call Arturo 494-8170 eves pls.

Intermediate or advanced guitarists to join with, exchg songs/tech, acoustic & elect, pop/rock/folk. Call Paul x3-2298 or 494-8881 eves.

Quiet considerate post doc fellow sk 1 BR apt in quiet setting or to shr apt, non-smoker, no pets, car, vegetarian. Call Nancy 926-1086.

Steinway Grand piano to buy. Call 426-5252.

Roommates

Journalist & Harv student sk 2 non-smoking rmmates for spacious Harv Sq apt, 4 BR, \$230/mo per person. Call Lucas 864-5554 6-10pm.

Rmmate wntd for apt in Arl w/2 studios, own rm, drwwy park, \$150/mo incl ht & util, shr food, non-smokers, avail now. Call Beth x3-6032 or 643-3180.

Hse to shr, lovely sm hse in best Camb loc, vy safe, quiet residential st, 1 blk from river, \$300/mo + util. Call John x8-4118 Draper.

M Rmmte, nonsmoker, lks dogs to shr furn No End Bos apt, LR, K, sep BR, laundry fac, park, \$250/mo incl ht, gd T. Call Warren x3-4444.

Carpools

Nd additional member to join carpool betw Newton Ctr & MIT. Call x3-7595.

Riders or carpoolers, Westwood or vic via Kenmore Sq to MIT, 8-5pm approx. Call Dave x3-2273 or 326-1797.

Rd needed to Brkline from MIT around 5:30 T & Thurs, wl shr gas. Call Laurie 566-0084.

Riders wntd to & from Haverhill, Andover, No Andover, No Reading & Wilmington, hrs 8:30-5. Call Carl x3-2250.

Parking Stickers

Note to parking sticker swappers: please remember to inform your supervisor and the Campus Patrol of this exchange; you have made so that their records accurately reflect your new parking area.

Wl swap N10 lot for West gar. Call Frank x3-7266.

Wl trade Albany for East park stickers. Call Jennifer x3-4254.

Swap West for Albany or East. Call x3-4129.

Wl swap West gar for East or Albany Gar or Albany lot. Call George x3-7795.

Wl swap East gar for Sloan sticker. Call x3-6761.

Swap West for any space closer to Eastgate. Call x3-7462 or 729-1529.

Trade N10 for West. Call Susan x3-2105.

Wl swap West for Albany. Call x3-1926. Wl swap West gar for Albany or East. Call Charlie x3-4247.

Miscellaneous

Wl type thesis, gen typing. Call Beverly x8-4427 Draper.

Enjoy New England nature while you get reacquainted w/yourself, 1-day outdr "Life Goals" picnic & retreat, \$10, Oct 13, 14, 20 & 21. For info call Bill Kalt x3-8100 or write for flyer to Rm NW16-20.

Rent a writer, I'll get your msg across, letters, speeches, technical, ads, announcements, press releases, etc. Talk is cheap, so call 595-7448 eves.

Emily Huang, whogave an art flower demo at the Wive's Group meeting, is offering classes in Oct, board member of the Art Flower Teachers Assoc of Taiwan & has extensive teaching exper, 10 2 1/2 hr wky meetings, 8 different flowers will be taught. For info pls call 494-8507.

Wl do gen tech or thesis typing, IBM Correct Select, 11 yrs exp. Call x3-6695.

Classical piano lessons w/patient teacher, extensive performing experience, studies at NEC, beginners & interm, all ages welcome, reasonbl rates. Call x3-7791 10-1:30pm or 424-1253.

Learn to sing or play the piano, it's nvr too late. Experienced teach now has openings for students in all levels, prv lessons or group instruction, free introductory lesson, for brochure & more info call 643-5791.

Pr typing IBM Select, 10 yrs exp, papers hesis etc. Call Marie x3-4965.

Typing IBM Correct Select, tech or gen, located 5 min for MIT or pick up delivery arranged. Call 547-8695.

POSITIONS AVAILABLE

This list includes all non-academic 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 Assistant for Women and Work (10-215) and Minority Affairs (10-211), and in the Personnel Office, (E19-239).

machine dictation required. Shorthand desirable. B79-637 (10/3)

Sr. Secretary in the Dept. of Materials Science and Engineering will answer phones; type manuscripts, class material, and correspondence from handwritten draft and machine dictation; initiate purchase requisitions and follow up on purchases; maintain files and petty cash; arrange travel; maintain mailing lists and arrange mailings. Will also translate English/Spanish and Spanish/English documents and reports. Good secretarial skills, command of English language, fluency in Spanish and ability to handle several projects simultaneously required. Two and one half years' applicable experience also required. MIT experience a plus. B79-634 (10/3)

Sr. Secretary, Editorial, in the Graphic Arts Dept. will be responsible for typesetting for reproduction; operate computer typesetting unit and computer display type unit. Good typing skill including knowledge of leading, kerning, justified margins, proportional spacing and point size, familiarity with type faces and styles required. At least 2.5 years' applicable experience, or equivalent, also required. 40 hrs./wk., 8am-5pm B79-636 (10/3)

Sr. Secretary to perform general and specialized secretarial duties for one faculty member in the Dept. of Political Science: type correspondence, class materials, manuscripts; file; duplicate and xerox; arrange meetings and travel; maintain calendar and records; Position involves heavy student contact and possible use of computer console for manuscript typing, which involves mathematical symbols. Excellent typing and organizational skills, ability to follow through, and initiative required. College/secretarial school background, knowledge of MULTICS computer language and MIT experience a plus. B79-627 (10/3)

Sr. Secretary to 2 Associate Directors and 1 Assistant to the Director of the Admissions Dept. will perform secretarial duties: maintain calendars; arrange travel; answer phones; perform related tasks. Excellent typing, organizational and machine transcription skills, ability to work under pressure and with a wide variety of people necessary. At least 2.5 years applicable experience also necessary. B79-640 (10/3)

Sr. Secretary, in the Office of the Vice President for Financial Operations to arrange travel; schedule meetings; transcribe correspondence, reports and other materials from machine or verbal dictation; compose routine replies; maintain files and account records; order supplies. Position requires at least 2.5 years' applicable experience, good organizational and secretarial skills. Shorthand desirable. B79-639 (10/3)

Sr. Secretary to a faculty member in the Biology Dept. will perform secretarial and administrative duties: answer telephone; open mail; type letters, manuscripts, recommendations and proposals (usually from dictaphone); order supplies; administer petty cash; process requisitions and other routine procedures. High school graduation and two and one half years' applicable experience necessary. Excellent typing and interpersonal skills and ability to make independent decisions also necessary. B79-596 (9/26)

Sr. Secretary to several faculty members in the Economics Dept. will type correspondence, manuscripts and course materials; answer phones; arrange travel; file. Good typing skill required. High school graduation and at least 2.5 years experience also necessary. Technical typing skill and college study preferred. B79-599 (9/26)

Sr. Secretary will provide reception and secretarial support to a health care team for the Medical Dept.: answer phones; schedule appointments; order records; coordinate lab tests with preparation of necessary forms; transcribe medical notes; type correspondence and reports; arrange travel; maintain files; provide support occasionally to other areas. May be asked to assist with routine physical exams. Good organizational and excellent typing skills, ability to respond maturely and sensitively to patients' needs and ability to transcribe medical terminology necessary. At least 2.5 years applicable experience also necessary. 37.5 hrs./wk. B79-611 (9/26)

Sr. Secretary in the Center for Materials Processing reporting to a senior faculty member will type correspondence (from machine and dictation), technical reports, proposals and course material; arrange travel and appointments; monitor research accounts; answer and place large volume of calls; organize records and filing system; compose and edit correspondence. Good secretarial skills essential. At least 2.5 years direct/related experience, or equivalent, also necessary. B79-584 (9/26)

Sr. Secretary in the Nuclear Reactor Laboratory to the Director of Reactor Operations and the Administrative Asst. will arrange various committee meetings; schedule appointments; arrange travel; type correspondence, technical reports and proposals; maintain files; assist in a variety of related duties. Excellent secretarial (including technical typing skills) and good interpersonal and organizational skills, ability to work with figures required. At least 2.5 years applicable experience also required. B79-601 (9/26)

Sr. Secretary in the Alumni Association will perform reception and secretarial duties; type correspondence; arrange travel; maintain calendar and files; perform reception duties. Excellent typing, good interpersonal and organizational skills required. At least 2.5 years applicable experience also required. Knowledge of MIT and/or MIT procedures helpful. B79-609 (9/26)

Sr. Secretary for MIT Leadership Campaign District Office to arrange travel, compose and transcribe correspondence, provide secretarial support to a variety of fund raising activities. Excellent typing, ability to organize work independently and 2.5 years or more applicable experience required. College training and familiarity with MIT preferred. B79-620 (9/26)

Sr. Staff Asst. to Financial Aid Officer, Nuclear Engineering Dept. will prepare and process graduate awards, financial aid notices, and maintain financial aid records; provide information to faculty staff and students; type draft and final technical research reports (equations), class notes, correspondence; answer phones; maintain files; arrange luncheon and dinner meetings; coordinate travel; arrange luncheon/dinner meetings; compose letters; edit and proof-read; supervise temporary help as required. Ability to work with frequent interruptions, and to set priorities required. At least 2.5 years' applicable experience also necessary. B79-616 (9/26)

Sr. Staff Asst. to 2 faculty members in Nuclear Engineering to type correspondence, technical reports from rough draft, and class notes; schedule classroom use; arrange travel; organize meetings; schedule appointments. Important part of job involves interaction with students and maintenance of undergraduate records. Technical typing is required. Very good secretarial and interpersonal skills, ability to set priorities also necessary, as is at least 2.5 years' applicable experience. B79-617 (9/26)

Sr. Secretary, in Educational Video Resources will receive and direct all inquiries and calls; maintain schedule and arrange access to all facilities; keep track of projects and provide necessary reminders and notifications; coordinate time cards, and billing and accounting activities, including expenditure reviews; type reports, correspondence, etc. Excellent interpersonal and good typing, writing and editing skills and ability to work with figures/accounts necessary. At least 2.5 years applicable experience also necessary. B79-555 (9/5)

Secretary, part-time, in the Dept. of Mechanical Engineering will type correspondence, reports; perform general secretarial duties. Excellent secretarial skills, including technical typing and ability to work with a busy staff required. High school graduation and at least 1 year's applicable

experience also required. 25-30 hrs./wk., flexible schedule. B79-625 (10/3)

Secretary to work under direction of the Assistant for Special Events, in Campus Information Services will perform general secretarial duties and assist in arrangements for conferences held at the Institute. Responsibilities include answering phones; typing correspondence; maintain files and records; schedule appointments and meetings. Will also provide backup secretarial assistance to the analytical Studies and Planning Group. Applicants must be able to work on concurrent projects, and handle detail with accuracy. Excellent typing and organization skills also required. Position requires some overtime work. 37.5 hrs./wk. B79-615 (9/26)

Secretary in the Dept. of Materials Science and Engineering to provide reception and secretarial support to headquarter's staff: answer phones; type forms, memos, correspondence; file; receive visitors; act as courier. Typing skill, ability to handle detail required. At least 1 year's experience also required. 37.5 hrs./wk. B79-610 (9/26)

Secretary to 2 faculty members in the Center for Cancer Research to type letters, grants and manuscripts; file; answer phones, order materials; maintain a variety of records. Good typing skill, initiative and ability to take responsibility required. At least 1 year related experience also required. Familiarity with chemical and/or biological terminology, use of dictaphone and MIT procedures desired. B79-351 (9/26)

Secretary will assist 3 faculty members and research staff in the Dept. of Chemical Engineering: type class materials, proposals, reports, etc.; arrange meetings; coordinate travel plans; maintain records; interact with students and advisees of the faculty members. Good organizational, typing and interpersonal skills and ability to transcribe from dictating equipment required. High school graduation and 1 year's applicable experience also required. Technical typing skill helpful, but will train if necessary. B79-594 (9/26)

Secretary, Technical, in the Plasma Fusion Center will type and proofread reports, manuscripts and correspondence; perform reception duties; handle a variety of headquarters related tasks (mailings, schedules, reproductions, etc.). Excellent typing, organization and interpersonal skills and ability to set priorities also required. At least 1 year's related/direct experience also required. 37.5 hrs./wk. B79-604 (9/26)

Secretary, part-time, in Biology to type and proofread correspondence and manuscripts from machine dictation or written draft; answer phones; maintain files and budget records; monitor expenditures; arrange travel and meetings. Typing skill, command of English grammar and ability to handle budget records; monitor expenditures; arrange travel and meetings. Typing skill, command of English grammar and ability to handle budget related activities required. 17.5 hrs./wk. B79-619 (9/26)

Sr. Secretary, technical, in the National Magnet Laboratory will type technical reports and correspondence; arrange travel; answer phones; xerox; maintain records and files; perform reception duties. High school graduation and one year of secretarial or technical typing experience necessary. Good typing also necessary, preferably technical typing skill. B79-537 (9/5)

Secretary in the National Magnet Laboratory to type technical manuscripts, reports and general correspondence; maintain files and records; schedule conference notes; arrange coffee set-ups and travel; assist in producing lab newsletter; assist in processing personnel actions. Excellent typing skill including technical typing skill or willingness to learn required. High school graduation with 1 year of secretarial experience and/or secretarial school graduation also required. Familiarity with IBM typewriter desired. B79-214 (5/2)

Administrative Asst., temporary, in the Office of Facilities Management Systems will act as central source of room function information; contact faculty and administrators regarding room use; judge decision-making about room use; record field data and report in written form; perform special field audits; assist in special studies; administer and assign space for storage facility. Good communication skills, tact, ability to read and scale measurements from floor plans. At least 4.5 years' applicable experience required, as well as thorough understanding of issues related to space allocation. Temporary for 6 months with possibility of becoming permanent. B79-631 (10/3)

Jr. Programmer in the Programming Technology Research group in the Laboratory for Computer Science will be trained in hardware and assembly language work for systems maintenance and will perform applications programming in MDL. Previous computer experience in hardware and assembly language and/or familiarity with TOPS-20 systems maintenance preferred. At least 4.5 years applicable experience required. 40 hrs./wk. B79-624 (10/3)

Technical Asst. in the Biology Dept. will prepare sterile tissue culture reagents; perform sterility testing and recording results; prepare and sterilize all culture supplies; prepare stains, fixatives and other general lab reagents; maintain cell culture; prepare mouse fibroblast feeder layers and chick embryo cell cultures; assist in experiments and miscellaneous duties as necessary. High school graduation required. One-two years college biology and facility with mathematics preferred. B79-633 (10/3)

Sr. Office Asst. in the Plasma Fusion Center will verify accounting statements; process invoices; maintain files and records; interact with Center's personnel and vendors regarding invoices and their payments. Good interpersonal and organizational skills, ability to set priorities and handle detail accurately required. At least 2.5 years applicable experience also required. B79-603 (9/26)

Sr. Office Asst. in the Dept. of Nutrition and Food Science will process purchase orders, packing slips and invoices; maintain related files; verify statements and initiate any appropriate action; handle petty cash; interact on telephone with vendors and staff members. Typing skill and good command of English language necessary. Two and one half years applicable experience, or 2 years of college level accounting courses, also necessary. B79-600 (9/26)

Office Asst., part-time, in the Naval Science Dept. will provide general office and reception support; answer phones; greet visitors; answer inquiries; assist with general office duties and file and record maintenance. Good typing and interpersonal skills, and ability to adopt to changing work environment required. High school graduation and at least 1 year's applicable experience, or equivalent, also required. 20 hrs./wk., M-F B79-622 (10/3)

Word Processing Operator will operate the Optical Character Reader (OCR) Printer and Text Editors in the Word Processing Center: enter through keyboard technical expressions and equations that cannot be read by the OCR; instruct new users; accept orders and complete appropriate forms; interpret proofreader and editor markings and enter into Text Editor; prepare copy and transmit it to Photo-typesetter; prepare related reports. High school graduation and at least 2.5 years' applicable experience necessary. Ability to organize equation elements and rapidly enter into Text Editor and knowledge of Greek alphabet and mathematical symbols also necessary. B79-628 (10/3)

Office Asst. in the Medical Dept.'s Information Processing Service will keypunch, verify, audit, edit and batch data. Minimum speed of 9000 strokes per hour and ability to work independently, efficiently and with little supervision required. Key punching and verifying experience also required. Will be operating Inforex 1300 systems. B79-632 (10/3)

Office Asst. in the Comptroller's Accounting Office will audit vendor invoices; extend and discount invoices; post invoice payments; code invoices; prepare order commitments; batch processed invoices; occasionally review vendor statements. Ability to work with figures and proficiency on adding machine required. High school graduation and at least 1 year's applicable experience also required. B79-614 (9/26)

Office Asst. in the Comptroller's Accounting Office will handle cash suspense for Accounts Receivable; reconcile cash on a monthly basis; make cash adjustments; research and credit accounts. Will also handle correspondence, telephone inquiries, terminations, refunds and vouchers for System. Typing skill required, as well as knowledge of bookkeeping and ability to deal with public and reconcile accounts. Position requires 1 year's experience. B79-613 (9/26)

Office Asst. in the Resource Planning and Development Office will complete payroll report; handle mail flow; maintain xerox machine and mailing machine; perform reception duties; answer large volume of calls; maintain lab supplies; assist in file maintenance. Occasionally will act as courier. Excellent typing, filing and organizing skills, ability to handle several duties simultaneously, and facility with figures necessary. At least 1 year's applicable experience also necessary. B79-612 (9/26)

Office Assistant in the Comptroller's Accounting Office to type vouchers; charge and credit various projects; file; perform miscellaneous duties as necessary. Good typing and bookkeeping skills including ability to clear and reconcile accounts required. One year's experience also necessary. B79-423 (9/26)

Console Communications Operator in the Telecommunications Office of the Physical Plant Dept. will attend, operate and monitor FCS console; follow non-emergency activities schedule; maintain communications with Work Control Center and Heat, Vent Shops and others, using a variety of communications equipment; respond to alarms and emergencies in accordance with specified procedures; perform related clerical duties; process and expedite incoming and outgoing calls; assist in processing of conference calls and in transferring calls. High school graduation required. English language skills and ability to react properly in an emergency also required. Related experience a plus. Applicants must be 18 years of age or older. Sat. and Sun. 12 mid-7am and 3 evenings a week or Sat. and Sun. 10.15 am-5:15pm, and 3 days during week. B79-597, B79-598 (9/26)

Office Asst. in the Plasma Fusion Center will prepare student and hourly payrolls; process travel vouchers, requisitions and materials related to accounting statements; update and maintain records and files; type vouchers and correspondence. Good typing and organizational skills, ability to handle detail accurately and facility with figures necessary. At least 1.5 years applicable experience also necessary. B79-606 (9/26)

Office Asst. in the Plasma Fusion Center will process invoices; maintain files and records; type and proofread budget reports and correspondence; interact with Center's personnel and vendors. Good typing and interpersonal skills and ability to handle detail accurately necessary. At least 1 year's applicable experience also necessary. B79-605 (9/26)

Clerical Asst. in Purchasing and Stores will type, distribute and mail purchase orders; maintain files. Good typing skill necessary. B79-621 (10/3)

Hourly Dish Washer, in Food Service will set up dish machine and wash dishes; clear dishroom, pantry and dining area between meals; sweep, mop and clean floors in pantry and dish room; perform other related duties as necessary. Applicants must understand and speak English, as well as have ability to follow verbal instructions. 6am-3pm. H79-148 (10/31/37)

The following positions were still available at *Tech Talk* deadline. The date following each position is the date of the most recent *Tech Talk* in which the position was described.

ADMINISTRATIVE STAFF:

- A77-3, Admin. Staff, Systems Programmer, Information Processing Services (2/16)
- A79-9, Admin. Staff, Mechanical Engineering (2/14)
- A79-35, Admin. Staff, Programming Analyst, Information Processing Services (5/30)
- A79-43, Admin. Staff, Director of Development, Resource Planning (7/11)
- A79-47, Admin. Staff, Mechanical Engineering Operations, Physical Plant (8/15)
- A79-49, Admin. Staff, Data Base Administrator, Information Processing Services (8/15)
- A79-51, Admin. Staff, Systems Programmer, Information Processing Services (8/29)
- A79-53, Admin Staff, Asst. Editor, Technology Review (8/29)
- A79-54, Admin. Staff, Director of Alumni Fund, Alumni Association (8/29)
- A79-55, Admin. Staff, Asst. to Manager of Central Utilities Plant, Physical Plant (8/29)
- A79-58, Admin. Staff, Industrial Liaison Officer, Industrial Liaison Program (9/5)
- A79-59, Admin. Staff, Systems Analyst, Information Processing Services (9/5)
- A79-60, Admin. Staff, Technical Supervisor, Information Processing Services (9/5)
- A79-62, A79-63, Admin. Staff, Applications Programmer, Information Processing Services Office (9/12)
- A79-64, A79-65, Admin. Staff, Systems Analyst, Information Processing Services Office (9/12)
- A79-66, Admin. Staff, Asst. Director of Purchasing and Subcontract Administration, Purchasing Office (9/12)
- A79-67, Admin. Staff, Building Maintenance Manager (Structural), Physical Plant (9/12)

SPONSORED RESEARCH STAFF:

- R77-91, Spons. Res. Staff, Sr. Accelerator Physicist, Lab for Nuclear Science (5/18)
- R77-137, Spons. Res. Staff, Experimental Physicist, Bates Linear Accel. (8/31)
- R77-228, Spons. Res. Staff, Plasma Physicist, Res. Lab of Electronics (1/)
- R78-93, Spons. Res. Staff, Res. Engineer, Civil Engineering (5/10)
- R79-102, Spons. Res. Staff, Research Associate, Mechanical Engineering (5/30)
- R78-105, Spons. Res. Staff, Temp., Lab for Nuclear Science (5/31)
- R78-117, Spons. Res. Staff, Temp., Economics (7/12)
- R78-135, Spons. Res. Staff, Research Lab of Electronics (7/26)
- R78-136, Spons. Res. Staff, Laboratory for Computer Science (9/12)
- R78-145, Spons. Res. Staff, Electronics Engineer, Lab for Computer Science (8/16)
- R78-168, Spons. Res. Staff, Programmer, Center for Space Research (8/30)
- R78-105, Spons. Res. Staff, Physicist, temporary, Laboratory for Nuclear Science (9/5)
- R78-208, Spons. Res. Staff, Postdoctoral Research, Nuclear Materials, Nuclear Reactor (9/27)
- R78-209, Spons. Res. Staff, Postdoctoral Research, Nuclear Materials, Nuclear Reactor (9/27)
- R78-217, Spons. Res. Staff, Research Associate, Civil Engineering (10/18)
- R78-228, Spons. Res. Staff, Research Engineer, temporary, Energy Lab (10/18)
- R78-246, Spons. Res. Staff, Systems Programmer, Lab for Computer Science (11/1)
- R78-279, Spons. Res. Staff, Electron Microscopy Engineer, Material Science and Engineering (12/13)
- R78-285, Spons. Res. Staff, Accelerator Physicist, Lab for Nuclear Science (12/13)
- R78-286, Spons. Res. Staff, Systems Programmer, Lab for Computer Science (12/13)
- R78-306, 307, 308, Spons. Res. Staff, Laboratory for Information and Decision Systems (1/10)

- R78-311, 312, Spons. Res. Staff, Lab for Computer Science (1/10)
- R79-11, Spons. Res. Staff, Postdoctoral Research, Center for Theoretical Physics (1/17)
- R79-21, Spons. Res. Staff, Research Scientist, Energy Lab (1/24)
- R79-22, Spons. Res. Staff, Lab for Nuclear Science (2/7)
- R79-24, Spons. Res. Staff, Research Associate, Heterocyclic Chemist, Chemistry (3/7)
- R79-27, 28, 29, Spons. Res. Staff, Transportation Systems, Center for Transportation Studies (2/14)
- R79-38, Spons. Res. Staff, Policy Analyst, Energy Laboratory (2/28)
- R79-43, Spons. Res. Staff, Laboratory for Nuclear Science (2/16)
- R79-55, Spons. Res. Staff, Research Scientist/Engineer, Energy Lab (5/2)
- R79-105, Spons. Res. Staff, Research Associate, Meteorology Dept. (5/2)
- R79-106, R79-107, Spons. Res. Staff, Experimental Plasma Physicist, National Magnet Laboratory (5/9)
- R79-117, Spons. Res. Staff, Research Associate, Earth and Planetary Sciences (5/16)
- R79-125, Spons. Res. Staff, Counselor, Upward Bound Program (6/6)
- R79-129, Spons. Res. Staff, Experimental Plasma Physicist, National Magnet Laboratory (6/6)
- R79-131, Spons. Res. Staff, Electrical Engineer, temporary, Center for Materials Science and Engineering (6/6)
- R79-135, Spons. Res. Staff, Microwave Engineer, Research Laboratory of Electronics (6/13)
- R79-147, Spons. Res. Staff, Research Associate, Architecture Dept. (6/27)
- R79-150, Spons. Res. Staff, Laboratory for Nuclear Science (7/11)
- R79-155, Spons. Res. Staff, Laboratory for Nuclear Science (7/11)
- R79-156, Spons. Res. Staff, Project Specialist, Center for Space Research (7/11)
- R79-157, Spons. Res. Staff, Technical Asst., Chemistry (7/11)
- R79-158, Spons. Res. Staff, Sr. Scientific Programmer, Meteorology (7/11)
- R79-160, Spons. Res. Staff, Research Specialist, Earth & Planetary Sciences (7/11)
- R79-170, Spons. Res. Staff, Research Specialist/Technical Asst., Biomechanics and Human Rehabilitation Laboratory, Mechanical Engineering (8/15)
- R79-171, Spons. Res. Staff, Research Specialist/Technical Asst., temporary, Mechanical Engineering (8/15)
- R79-172, Spons. Res. Staff, Research Specialist/Technical Assistant, temporary, Mechanical Engineering (8/15)
- R79-176, Spons. Res. Staff, Research Engineer, Electronic, Haystack Observatory (8/15)
- R79-179, Spons. Res. Staff, Electric Utility Systems, Programmer/Analyst, Energy Laboratory (8/15)
- R79-180, Spons. Res. Staff, Design Engineer, National Magnet Laboratory (8/15)
- R79-183, Spons. Res. Staff, Mechanical Design Engineer, National Magnet Laboratory (8/29)
- R79-186, Spons. Res. Staff, Research Associate, Earth and Planetary Sciences (8/29)
- R79-187, Spons. Res. Staff, Research Dietician, part-time, Clinical Research Center (8/29)
- R79-189, Spons. Res. Staff, Technical Asst., Nutrition and Food Science Dept. (8/29)
- R79-192, Spons. Res. Staff, Electronics Engineer, Lab for Nuclear Science (8/29)
- R79-193, R79-194, Spons. Res. Staff, Postdoctoral Associate, temporary, Laboratory for Nuclear Science (8/29)
- R79-196, Spons. Res. Staff, Lab for Computer Science (8/29)
- R79-201, Spons. Res. Staff, Technical Asst., Biology Dept. (8/29)
- R79-204, Spons. Res. Staff, temporary, Research Laboratory of Electronics (8/29)
- R79-206, Spons. Res. Staff, Computer Systems Engineer, Meteorology Dept. (8/29)
- R79-207, Spons. Res. Staff, Chemist, Nuclear Reactor Lab (8/29)
- R79-209, Spons. Res. Staff, Center for Space Research (8/29)
- R79-210, Spons. Res. Staff, Postdoctoral Associate, Lab for Nuclear Science (8/29)
- R79-211, Spons. Res. Staff, Research Scientist, Nuclear Engineering (8/29)
- R79-212, Spons. Res. Staff, Staff Scientist, National Magnet Laboratory (9/5)
- R79-213, Spons. Res. Staff, Plasma Physics Experimentalist, Plasma Fusion Center (9/5)
- R79-215, Spons. Res. Staff, Research Associate, Energy Laboratory (9/5)
- R79-216, Spons. Res. Staff, Technical Asst., Dept. of Nutrition and Food Science (9/5)
- R79-219, Spons. Res. Staff, Electrical Engineer, National Magnet Laboratory (9/5)
- R79-222, Spons. Res. Staff, Technical Writer, Energy Laboratory (9/5)
- R79-223, Spons. Res. Staff, Center for Transportation Studies, (9/5)
- R79-224, Spons. Res. Staff, Programmer, Center for Space Research (9/5)
- R79-225, Spons. Res. Staff, Research Associate, Materials Science and Engineering (9/5)
- R79-227, Spons. Res. Staff, Programmer, Meteorology Dept. (9/12)
- R79-228, Spons. Res. Staff, Research Associate, Division for Study and Research in Education (9/12)
- R79-229, Spons. Res. Staff, Technical Systems Programmer/Analyst, Energy Laboratory (9/12)
- R79-232, Spons. Res. Staff, Oil Market Analyst, part-time, Energy Lab (9/19)
- R79-235, Spons. Res. Staff, Research Specialist, Materials Science and Engineering (9/19)
- R79-238, Spons. Res. Staff, Technical Asst., Earth and Planetary Sciences (9/26)
- R79-239, Spons. Res. Staff, Technical Asst., part-time, Division for Study and Research in Education (9/26)
- R79-243, Spons. Res. Staff, Postdoctoral Physicist, part-time, Center for Space Research (9/26)
- R79-246, Spons. Res. Staff, Technical Asst., Center for Cancer Research (9/26)

ACADEMIC:

- C78-17, Acad. Staff, Research Associate (7/12)
- C79-7, Academic Staff, Associate Director of Libraries (5/9)
- R79-15, Academic Staff, Technical Manager, Department of Aeronautics and Astronautics (6/27)
- R79-16, Academic Staff, Postdoctoral Associate, Nutrition and Food Science (7/11)
- C79-17, Academic Staff, Asst. Librarian, Rotch Library (7/25)
- C79-20, Academic Staff, Assistant Director, Sloan School, Center for Information Systems Research (8/29)
- C79-21, Academic Staff, Librarian Documentation Specialist, Rotch Library (9/5)
- C79-23, Academic Staff, Radiation Protection Office, Medical Dept. (9/12)
- C79-24, Academic Staff, Asst. Librarian, Rotch Library (9/12)
- C79-25, Academic Staff, Administrative Officer, Division of Laboratory for Animal Medicine (9/26)

EXEMPT:

- E79-20, Exempt, Shift Supervisor, Physical Plant (7/11)
- E79-24, Exempt, Engineering Asst., National Magnet Laboratory (8/15)
- E79-25, Exempt, Engineering Asst., National Magnet Lab (8/29)
- E79-26, Exempt, Supervisor, Food Service (9/5)
- E79-28, Exempt, Asst. Auditor, Audit Division (9/5)
- E79-30, Exempt, Supervisor - Illustration Service, Graphic Arts (9/26)

SUPPORT STAFF:

- H79-167, Secretary, Medical Dept. (4/11)
- H79-179, Sr. Secretary, Material Science and Engineering (4/18)
- H79-185, Secretary, Energy Lab (4/25)

- B79-188, Accounting Assistant, Comptrollers Accounting Office (4/25)
- B79-210, Sr. Secretary, Earth & Planetary Sciences (5/9)
- B79-214, Secretary, National Magnet Laboratory (5/9)
- B79-234, Administrative Assistant, Center for International Studies (5/30)
- B79-255, Secretary/Receptionist, Graphic Arts (6/6)
- B79-261, Sr. Secretary, Physical Plant (6/6)
- B79-280, Secretary, Research Laboratory of Electronics (6/6)
- B79-293, Sr. Secretary, Sloan School of Management (8/29)
- B79-303, Sr. Secretary, MIT Press (6/27)
- B79-306, Sr. Secretary, Humanities Dept./Center for Materials Research in Archaeology and Ethnology (9/5)
- B79-320, Secretary, Electrical Engineering and Computer Science (7/11)
- B79-321, Sr. Secretary, Mechanical Engineering (7/11)
- B79-331, Secretary, Laboratory for Information and Decision Systems (7/11)
- B79-350, Sr. Secretary, Treasurer's Office (7/25)
- B79-357, Sr. Secretary, Physical Plant (7/25)
- B79-364, Sr. Secretary, Mechanical Engineering (7/25)
- B79-368, Sr. Secretary, Physical Plant (7/25)
- B79-373, Sr. Office Asst., Artificial Intelligence Laboratory (7/25)
- B79-387, Project Documentor, Information Processing Systems Office (9/5)
- B79-391, Library Asst., part-time, Center for Policy Alternatives (8/15)
- B79-395, Sr. Secretary, Nuclear Engineering Dept. (8/15)
- B79-413, Secretary, Military Science (8/29)
- B79-421, Office Asst., Registrar's Office (8/29)
- B79-423, Office Asst., Comptroller's Accounting Office (1/29)
- B79-426, Sr. Secretary, MIT Press (8/29)
- B79-436, Reactor Operator, Nuclear Reactor Lab (8/29)
- B79-440, Sr. Secretary, Alumni Association (8/29)
- B79-443, Library Asst., Lab for Computer Science (8/29)
- B79-448, Sr. Secretary, Chemical Engineering Dept. (8/29)
- B79-456, Sr. Secretary, Medical Dept.'s Social Work Service (8/29)
- B79-463, Sr. Secretary, Sloan School of Management/Systems Dynamics Group (8/29)
- B79-466, Admin. Asst., East and Planetary Sciences Dept. (8/29)
- B79-469, Sr. Secretary, School of Humanities (8/29)
- B79-474, Library Asst., part-time, Rotch Library (9/5)
- B79-481, Office Asst., Admissions Office (9/5)
- B79-488, B79-489, Secretary Chemical Engineering Dept. (9/5)
- B79-494, Sr. Office Asst., Treasurer's Office (9/5)
- B79-496, Sr. Secretary, Office of Minority Education (9/12)
- B79-498, B79-499, Sr. Secretary, Technical, Energy Laboratory (9/5)
- B79-500, Admin. Asst., Energy Laboratory (9/5)
- B79-501, Sr. Secretary, Technical, Mathematics Dept. (9/5)
- B79-503, Admin. Asst., Meteorology Dept. (9/5)
- B79-505, Sr. Secretary, Mechanical Engineering (9/5)
- B79-516, Secretary, temporary, Career Planning and Placement (9/5)
- B79-519, Sr. Secretary, Editorial, MIT Press (9/5)
- B79-525, Sr. Office Asst., Center for Space Research (9/11)
- B79-530, Secretary, Sloan School of Management (9/12)
- B79-531, Secretary, part-time, Sloan School of Management (9/12)
- B79-537, Secretary, Technical, National Magnet Laboratory (9/12)
- B79-542, Secretary, Personnel Dept./Benefits Section (9/12)
- B79-544, Sr. Secretary, Office of the Dean for School of Science (9/19)
- B79-548, Clerical Asst., part-time, Medical Dept. (9/12)
- B79-552, Secretary, National Magnet Laboratory (9/12)
- B79-554, Sr. Secretary, Technical (word processing), School of Engineering (9/12)
- B79-555, Sr. Secretary, Educational Video Resources (9/12)
- B79-559, Library Asst., part-time, Barker Engineering Library (9/19)
- B79-562, Tech. Asst., Psychology (9/28)
- B79-563, Office Asst., Information Processing Services (9/19)
- B79-564, B79-565, Secretary, Ocean Engineering (9/19)
- B79-567, Secretary, part-time, President's Office (9/19)
- B79-570, Office Asst., Comptroller's Accounting Office (9/26)
- B79-571, Sr. Secretary-Technical, Chemistry Dept. (9/26)
- B79-572, Account Representative, Information Processing Services Office (9/26)
- B79-575, Sr. Secretary, Physics Dept. (9/26)
- B79-577, Secretary, Sloan School of Management (9/26)
- B79-578, Secretary, Housing Office (9/26)
- B79-579, Office Asst., Comptroller's Accounting Office (9/26)
- B79-583, Sr. Secretary-Technical, Chemistry Dept. (9/26)
- B79-586, Secretary, part-time, Medical Dept.'s Environmental Medical Service (9/26)
- B79-587, Office Asst., Admissions Office (9/26)
- B79-588, Office Asst., part-time, Resource Planning and Development Office (9/26)
- B79-589, Secretary, Temporary, Biology Dept. (9/26)
- B79-590, Office Asst., part-time, Graphic Arts Dept. (9/26)
- B79-592, Office Asst., Graphic Arts Dept. (9/26)
- B79-593, Sr. Secretary, part-time, Clinical Research Center (9/26)

SERVICE STAFF:

- H78-106, Service Staff, Sr. Technician (Electronic), National Magnet Lab (8/16)
- H78-184, Service Staff, Technician A, Lab for Nuclear Science (12/6)
- H79-33, Service Staff, Technician A (Electronic), Chemistry (4/11)
- H79-85, Service Staff, Counter Person, Food Service (6/27)
- H79-96, Service Staff, Cook, Endicott House (7/11)
- H79-115, Service Staff, Technician B (Electronic), Laboratory of Nuclear Science (9/5)
- H79-118, Service Staff, Technician B (Electronic), Architecture Dept. (9/5)
- H79-121, Service Staff, Machinist A, Nuclear Reactor Laboratory (9/26)
- H79-122, Service Staff, Sr. Stock Clerk, Research Laboratory of Electronics (9/5)
- H79-123, Service Staff, Technician B, Materials Science and Engineering (9/12)
- H79-126, Service Staff, Technician A, National Magnet Lab (9/19)
- H79-129, Service Staff, Machinist A, Nuclear Reactor Laboratory (8/29)
- H79-134, Service Staff, Technician A (EM), Chemistry Dept. (9/5)
- H79-137, Service Staff, Swimming Pool Attendant, Physical Plant Dept. (9/12)
- H79-138, Service Staff, Swimming Pool Attendant, Physical Plant (9/19)
- H79-139, Service Staff, Lab. Asst., National Magnet Laboratory (9/19)

The following positions have been FILLED since the last issue of *Tech Talk*:
B79-520 Office Asst.
B79-522 Sr. Secretary

Russian Mime To Perform Here

Russian mime Boris Amarantov will be at MIT on Sunday, Oct. 14, 8pm, in Room 10-250 for a free, public performance sponsored by the Foreign Languages and Literature Section of the Department of Humanities.

Born into a family of teachers, Amarantov is widely recognized as one of the greatest of Russian mimes. He studied at the unique Academy of Circus Arts and the Choreographic Academy of the Bolshoi Theatre in Moscow.

In 1962, Amarantov won first prize in the Eighth International Competition for Mime Artists, held in Helsinki. His acclaimed character, "Ki-La-La," emerged a decade later.

Amarantov has worked closely with poet Bella Achmadulina and noted film director Grigorii Chuchrai. In 1977, the mime emigrated to the United States.

Steven A. Coons

Steven A. Coons, a former faculty member in the Graphics Division and the Department of Mechanical Engineering, died August 19 in Boulder, Colo. He was 67.

Professor Coons was a pioneer in the field of computer-aided design in which his skill as a designer and geometrician were combined in a technique for manipulating space figures that has become known as "Coon's Surfaces" or "Coon's Patches."

Professor Coons, who was a member of the MIT Class of 1936, joined the faculty in 1948 and resigned in 1966 to join the faculty at Syracuse University. Subsequently he spent several years conducting research for the Hungarian Academy of Science in Budapest. Most recently he was professor emeritus in the University Computing Center at the University of Colorado at Boulder.

Professor Coons is survived by his wife, who lives in Boulder.

Dr. E.S. Lamar

Word has been received of the recent death of Dr. Edward S. Lamar, 73, a former faculty member in the Department of Physics.

Dr. Lamar came to MIT from Princeton University in 1930 as a research associate when Dr. Karl Taylor Compton became president of MIT. He was appointed assistant professor in 1936 and left MIT in 1941 to become a scientific consultant to the Navy Department during World War II.

He remained with the Navy Department for the rest of his career, serving successively as chief scientist at the Navy's Bureau of Ordnance, the naval weapons command and the naval air systems command. He received the Navy's Superior Civilian Service Award on his retirement in 1975.

Dr. Lamar is survived by his widow, Mary Beth Wood Lamar, a daughter and a grandchild.



RICHARDS LECTURER Allan J. MacEachen, right, deputy leader of the Opposition and Opposition Leader in Canada's House of Commons, answers a question from the audience after delivering the third annual Robert H. Richards Lecture Saturday, Sept. 29, at the 1979 Alumni Officers Conference. MIT President Jerome B. Wiesner introduced Mr. MacEachen and moderated the question session.

MacEachen Gives Richards Lecture

(Continued from page 1)

keenly disappointed that the world community has been "unable to cope with the international (energy) question which many would regard as a sea change in the redistribution of economic and political power."

While there are useful dialogs under way between one or another industrialized country and parts of the oil-producing world, "Where do all the interests come together for reconciliation? Nowhere."

Such an international dialog has been made impossible, he said, by the refusal of OPEC to make the question of oil pricing part of the agenda for a worldwide energy discussion.

More than 500 alumni leaders and their guests were on campus for the two-day conference. On Friday, alumni officers attended workshops on fundraising at Endicott House, MIT Club luncheons for hometown students and a meeting of the Educational Councilors and alumni relations officers. Saturday's agenda, in addition to the Richards Lecture, included a business meeting of the Alumni Association and an afternoon program at which three MIT professors presented the latest developments in elementary particle physics, biomedical engineering and China policy. The professors were Francis E. Low, Karl Taylor Compton Professor of Physics and director of the Laboratory for Nuclear Science; Edward W. Merrill, Carbon P. Dubbs Professor of Chemical Engineering, and Lucian W. Pye, Ford International Professor of Political Science.

Claude W. Brenner, '47, president of the Alumni Association, who presided at the business meeting Saturday, told his fellow alumni that, as an institution, MIT has five components: the Corporation, the administration, the faculty, the students and the alumni. "Leave out any one, and you no longer have the institution."

The role of the alumni, he said, is "multi-faceted. Support is the common denominator."

"Alumni serve on the Corporation, in the administration, on the faculty, on Corporation visiting committees, on the Corporation Development Committee."

"We buttress this service by the support we offer through the Alumni Association and all its activities—the Alumni Fund and the Technology Review, for example."

"In turn, we have expectations, if not demands, of our Institute. We want MIT to maintain its pre-eminence, its uniqueness. MIT is a model, but never copied. It stands alone in higher education. No other institution is ever mentioned in the same breath as MIT—there is no companion to MIT as Yale to Harvard or Cambridge to Oxford—and we like that."

"So we demand that the standards be maintained. Sometimes when I meet with students, I point

out that "Tech is Hell" was the motto when I was an undergraduate, and Tech is still hell, and I'm glad of it. Now, out of context that sounds like an awful thing to say, and I'm sure our hardworking educational counselors and Admissions Office would not want the president of the Alumni Association to be quoted, as they compete with Ivy League universities for first-rate students. But in context, the point is made that the quality of the education that MIT offers, together with the demands that that places on the student, is not diminished, and the alumni expect this ever to be so...

"But in this interactive role we play as an autonomous member of the institution that is MIT, the Alumni Association and we alumni must also be responsive to the demands placed upon us. More than ever MIT needs our support. But we cannot be satisfied, either of us, with only the conventional and traditional ways of giving that support..."

"The Institute remains in delicate financial health, the success of the Leadership Campaign and the generosity of its benefactors notwithstanding. With inflation continuing as it is, I am sure we can anticipate increased costs, leading to increased tuition, and increased strains on the resources available for student aid."

Mr. Brenner said the imperative of freedom from federal intervention remains.

"It is inconceivable that MIT continue in any way but as a privately endowed institution. Aside from concerns that government dollars imply government direction—that is, as a colleague of mine once said, 'He who funds, runs,'—there is the succinct observation made by Vannevar Bush in a paper written some years ago: 'Government bureaus and officials will always interfere in a thousand ways and produce confusion.'"

Alumni also heard a report on the 1978-79 Alumni Fund, which totaled \$5,158,188—the first time the fund was over \$5 million and the sixth consecutive year of growth.

Donors totaled 21,891, the highest total reported since 1972. The number of gifts over \$100 increased by 231 from the 1978 total. Members of four of the five most recently graduated classes equalled or exceeded their 1978 percentage participation.

Christian J. Matthew, '43, a member of the Alumni Fund Board, who gave the report, called attention to the fact that alumni giving in the last three years had remained at the same level and an increase in matching funds from corporations employing alumni had accounted for the increase in the fund's total.

Thomas H. Farquhar, '60, chairman of the fund board, described a new alumni program based on personal contact that has been designed to increase giving.

Administrative Procedures Introductory Course Offered

The Office of Personnel Development has announced the fall schedule of the program "Introduction to Administrative Procedures at MIT."

Two seven-week programs will begin on October 23 and 24, respectively. The program is open to exempt and support staff.

Representatives of administrative and service departments will present procedural information and outline the services their departments offer to MIT employees. More than 400 participants have completed the program since it began in 1976.

Instructors for the program and their areas are:

Richard May, Comptroller's Accounting;
Paul Honiker, Accounts Payable;
Robert Sullivan, Travel;
Ruth Walsh, Transfer Voucher Section;
James Grayson and Patricia Greer, Office of Sponsored Programs;
Robert Babb, Purchasing Office;

Gene Brammer, Housing and Food Services;
James Coleman, Graphic Arts;
Howard Miller, Physical Plant;
Chief James Olivieri, Campus Patrol;
Virginia Bishop and Sally Hansen, Personnel Services;

Terri Viohl, Wage and Salary Office;
Vera Ballard, Personnel Development; and
Joseph Cullinan, Comptroller's Payroll.

Departments have been asked to nominate one or two employees from their area to attend one of the two programs this fall. Employees on the support staff and exempt payrolls should notify their supervisors if they are interested in attending one of the programs.

A copy of the program schedule and course outline can be obtained from the Administrative Officer. The nomination deadline for the programs is October 12. Letters will be sent to those selected for each of the programs by October 19.

Please call Judith Silverman, x4277, for further information.

MIT Takes Fourth Place In Water Polo Tournament

By KEN CERINO

Director of Sports Information
Water polo is a sport which doesn't attract a lot of media attention, but it is a skill sport which requires a lot of strength and outstanding swimming ability.

More and more schools are playing the sport on the intercollegiate level, and MIT coach John Benedict sees a few reasons for the increase in popularity.

"Some kinds are tired of swimming and they want to try something else," he notes. "It may be too late to take up basketball or football, so they try water polo."

"Many high schools now have water polo programs and some kids are devoting themselves exclusively to the sport. It takes a certain kind of individual to play water polo; it's a tough sport, but there's a lot of action."

MIT's water polo team gets back into action tonight hosting Boston College at 5pm in Alumni Pool. The Engineers are 1-2 on the year after beating Monmouth (16-15) and losing to Ohio State (14-10) and Fordham (18-8) last weekend at the MIT invitational. Tech was fourth in the tournament as Brown beat Ohio State for the championship.

Juniors Tony Gerst and John Weinert, and senior John Dieken are among the top players on Benedict's team.

THE SCOREBOARD:

MIT's cross-country team used the "pack-running" strategy to perfection Saturday in placing five runners in the top 10 to win a triangular meet against host Wesleyan and Coast Guard. Tech is now 4-0 on the season.

Colin Kerwin was second over the 4.9-mile course in 25:01 while Pat Hamilton was fourth, Bob Collins fifth, Norm Toplosky sixth, and Rudy Bellinger seventh.

"We'll see what we're made of against Lowell this Friday," says coach Chris Lane. The race starts

at 4pm in Boston's Franklin Park.

MIT's young soccer team dropped a tough 2-1 decision to Trinity last Saturday at Steinbrenner Stadium. Malcolm Duke, a freshman from Brooklyn, N.Y., scored the lone goal for the 1-3 Engineers.

"It was our best game of the season," noted coach Walt Alessi. "We just have to score more goals." Alessi also said he's been pleased with the play of Duke, John Busa, and Bill Uhle so far this season. The Engineers play at Bates this Saturday.

In other MIT sports, the volleyball team (1-1) blanked Northeastern, 3-0, Saturday, but it was a costly victory as senior co-captain Kathy Chrien suffered torn ligaments in her foot. She will miss the remainder of the season. Tech's field hockey team (1-1) lost to Framingham State, 6-0.

The club football team, meanwhile, downed Roger Williams, 20-0, for its second consecutive win of the season. Jeff Olsen, Steve Kosowsky, and Bruce Wrobel scored touchdowns for the Engineers, who were featured in last Sunday's *New York Times*. Tech plays a 7:30pm contest at Fairfield this Saturday.

Indoor Tennis Time Available

The J.B Carr indoor tennis courts will be available for pre-season play from Tuesday, Oct. 9, until Saturday, Oct. 30. Hours are 6-11pm Monday through Friday, and 8am-11pm Saturday and Sunday. Hourly rates are \$6 8am-noon, and \$8 noon-11pm. Reservations may be made by calling x3-1451 (Monday through Friday) 11am-3pm, up to one day in advance.



GOING MY WAY. MIT's Jay Walsh (52) starts downfield against Clark in recent soccer action at Steinbrenner Stadium. Jeff Muss (56) comes up to assist the play. MIT plays at Bates this Saturday. —Photo by Ken Cerino

B79-408	Sr. Secretary
B79-490	Secretary
B79-127	Service Staff
B79-528	Admin. Secretary
B79-526	Admin. Secretary
B79-504	Admin. Secretary
B79-581	Admin. Secretary
B79-489	Secretary
B79-290	Radio Astronomy Observer
B79-541	Service Asst.
B79-471	Technical Asst.
B79-377	Sr. Staff Asst.
B79-524	Admin. Secretary
R78-58	Spons. Research Staff
R79-197	Spons. Research Staff
B79-521	Sr. Technical Typist
B79-540	Receptionist
B79-518	Sr. Secretary
B79-479	Office Asst.
B79-397	Sr. Secretary
B79-511	Library Asst.
B79-508	Sr. Secretary
B79-396	Sr. Secretary
B79-602	Sr. Office Asst.
B79-184	Sr. Office Asst. (canceled)
B79-183	Sr. Secretary (canceled)
B79-459	Sr. Secretary (canceled)
B79-558	Sr. Secretary
B79-580	Sr. Office Asst.
B79-535	Technical Asst.
B79-582	Sr. Secretary
R79-221	Spons. Research Staff
R79-177	Spons. Research Staff
B79-575	Secretary
B79-417	Secretary
B79-409	Admin. Secretary
B79-428	Secretary
B79-110	Service Staff
B79-536	Sr. Secretary

The following positions are on HOLD pending further decision:

B79-538 Technical Asst.