



OFFICE OF THE
PRESIDENT AND CHANCELLOR

March 18, 1976

To Members of the M. I. T. Community:

We have asked Dr. Louis Menand III to inquire into alleged reports that a student taking photographs at a recent SACC Forum on Taiwan was performing some surveillance function for the government of the Republic of China on Taiwan.

Stimulated by these events, we wish to reaffirm to members of the M. I. T. community that the Institute is an open university whose public meetings can be attended by all who come on campus and who adhere to Institute requirements of good behavior. M. I. T. is also a university committed to assuring the free exchange of information and ideas. The SACC Forum was an example of that exchange. Consistent with the principles of an open university it is Institute policy to permit all members of the community to speak freely at open meetings. We would view it as being wholly improper for any member of this community to have his freely given public remarks place him in any personal, political, or legal jeopardy by any kind of governmental investigative agency.

While we reaffirm the openness of our campus, we would be indignant if any person came onto this campus for purposes of spying or surveillance. Any person present in the United States as an agent for a foreign government must register with the United States Department of State and sanctions are imposed for failure to do so. Information concerning "spying" activities will be referred to the Department of State.

Dr. Menand is continuing his inquiries into this incident.

Jerome B. Wiesner
President

Paul E. Gray
Chancellor

Committee to Review Taiwan Contract

An Ad Hoc Faculty Committee on International Institutional Commitments at MIT has opened discussions into the appropriateness of a Technology Training Program MIT is conducting for 15 graduate students from Taiwan under a contract from the National Taiwan University.

President Jerome B. Wiesner said that even though the Taiwan program, which started Jan. 1, 1975, was in place and operating nearly a year before the committee itself was established, the committee elected to inquire into its appropriateness because of concerns expressed by various groups of students and faculty.

At the same time, President Wiesner said he has asked Dr. Thomas F. Jones, vice president for research and a member of the ad hoc committee, to compile in detail all facts having to do with the Taiwan program, including its origins, its sponsors in Taiwan, and the content of the curriculum being provided to the Taiwan students.

The two-year non-degree course of instruction for the students from Taiwan is administered by the MIT Center for Advanced Engineering Study and is aimed at teaching the students how to develop highly sophisticated technical concepts into complex industrial systems and products and thus provide the National Taiwan University with a group of new entrepreneurs who can assume lead-

ership roles in developing new high technology industry for Taiwan.

The instruction is organized around one area of high technology, namely, complex electro-mechanical systems commonly known as inertial navigation systems, versions of which are used in navigating, guiding or controlling high performance vehicles. Central to the course of instruction is a laboratory project in which the students from Taiwan are designing and building—with commercially available components—a prototypical inertial navigation system.

Some students and faculty members have expressed concern that, while the program for students from Taiwan deals only with the fundamentals of inertial control, the students, when they return to Taiwan, could use their MIT training to design and build missile guidance systems for the Taiwan defense establishment.

The Ad Hoc Committee on International Institutional Commitments was appointed jointly by President Wiesner and Professor John Ross, chairman of the faculty, on recommendation of the faculty last year after MIT entered into a contract with the Atomic Energy Organization of Iran to train 54 Iranian graduate students over a three-year period in nuclear power reactor engineering as part of Iran's national plan to place its future reliance for

energy on nuclear power reactors.

The MIT faculty in November, 1975, recommended to the president that he establish the ad hoc committee to review the scale and nature of MIT's international contractual commitments for education and/or research or service, whether at MIT or abroad and to report to the faculty and to consult with the administration or faculty initiators of projects. Members of the committee were appointed and the committee was brought into being over the next several weeks. Its members include, besides Dr. Robbins and Dr. Jones, Provost Walter A. Rosenblith, five other faculty members, one graduate student and one undergraduate student.

Hobby Shop Overhaul

It's time for spring cleaning and the MIT Hobby Shop is no exception.

The Shop is reorganizing storage facilities, according to Shop supervisor George Pishenin. Before new storage shelves can be built, all lumber and projects must be claimed by Shop members.

Lumber and projects not claimed by April 5 will be discarded.

Energy Alternatives To be Seminar Topic

A seminar on alternative energy sources will be presented for industry representatives by undergraduate students at MIT Wednesday afternoon, March 31. The seminar is open to members of the MIT community.

Sponsors are the Undergraduate Research Opportunities Program (UROP) which encourages and supports project-based intellectual collaboration between faculty members and undergraduates, the MIT Industrial Liaison Program which provides an interface between MIT research and industry, and the MIT Chapter of the Society of Sigma Xi whose aim is to further the basic and applied sciences.

The seminar will give undergraduates the opportunity to present the results of their research to an audience who may be able to make use of their findings. Also, the seminar will give industrial representatives the opportunity to see how successful MIT's seven-year-old Undergraduate Research Opportunities Program has been in bringing undergraduate students into advanced, real-world research.

The seminar will present research work in four specific areas: coal gasification, fuel gas from seaweed, windmills for small power requirements, and thermic diode solar panels that convert solar energy into heat.

Kevin E. Bennet of Falls Church, Va., a senior in chemical engineering and a UROP member of a research team headed by Professor Jack Howard, will report on research he has been carrying out on the use of high pressure hydrogen to increase the yield of gas from coal and the impact this technology could have on coal gasification technology.

Ralph A. Troiano of Portland, Me., also a senior in chemical engineering, will describe work he has been doing on the anaerobic digestion of plants, specifically seaweed, in stirred tanks and in batch reactors to produce methane gas and the prospects the methods have for commer-

cial methane production. His research has been carried out under the direction of Professor Charles Cooney and Dr. Donald Wise of Dynatech R/D Company.

Thomas A. Davidson of Berkeley Heights, N.J., a junior in mechanical engineering, will speak on research he has been doing under Professor Wesley L. Harris on the potential use of the Darrieus type windmill as a power source for selected small power requirements. The Darrieus design, named for the French engineer who invented it several years ago, uses flexible panel blades mounted on a vertical axis, the panels moving outward by centrifugal force when blown by wind.

Final speaker on the program will be Gerald W. Fly of Cambridge, Mass., a junior in mechanical engineering. He will describe work he has been doing under the supervision of Professor Shawn Buckley on the thermic diode solar panels. These use two layers of circulating water to collect solar heat from the outside panel surface and transport it to the inside panel. Such prefabricated panels could be used in building walls.

Professor James D. Bruce, associate dean of the MIT School of Engineering, will serve as moderator of the seminar.

In recent years, half of all MIT's faculty members and three quarters of the school's 4,000 undergraduates have participated in Undergraduate Research Opportunities Program projects. Students engage in all phases of research activity: proposal writing, finance procurement, design of experiments, conduct of the research work, analysis and presentation or publication. Most students receive credit for the work and most projects run a full semester or more.

Echoes

50 Years Ago

A minor flu epidemic confined many of the faculty to their homes.

A new course on "Organization of Business" was offered to seniors by the Engineering Administration Dept.

40 Years Ago

A chapter of Veterans of Future Wars, founded as a satire on the veterans' bonus, was established at MIT. On the premise that wars are inevitable, the demand of the new organization was that every male citizen 18-36 be given a payment of \$1,000 before being drafted. This way, men would be assured of reaping the benefits of a bonus denied those killed in action.

Construction was begun in the testing materials lab of two large spectrographs, to be used in an expedition to the Ural Mountains to record the solar spectrum during the coming eclipse.

25 Years Ago

The Tech featured an article on William Schwann's Tech Record Shop, across from the dean's office on Mass. Ave. Schwann, a former MIT employee and expert on 16th and 17th century classical music, began the renowned LP record catalog, the first of its kind in the world.

The Carnegie Corporation presented \$150,000 to the newly established School of Humanities at MIT.

Prepared by Ethel I. Newell, MIT Historical Collections, x3-4444.

Ensemble at Yale

The MIT Shakespeare Ensemble, under the direction of Murray Biggs, is staging its recent production of *Henry IV, Part 1* at Yale University this week during MIT's spring vacation.

Professor Biggs, assistant professor of literature in the MIT Department of Humanities, will travel to New Haven with the 16 member acting troupe, staff and technicians. They go at the invitation of the Yale University English Department.

Since January the Shakespeare Ensemble has performed scenes from its repertory at Boston College, Belmont High School, Somerville High School and Needham High School. An April visit to Lexington High school is also planned.

Seminar Planned

"From the Industrial Revolution to the Sexual Revolution," a special seminar sponsored by the Lutheran Ministry, will begin Tuesday, March 30, 7:30-9pm in Rm 1-136. Conducted by novelist Rose Moss of Wellesley College, the seminar will focus on the interplay of technology and human feelings as dominant themes in literature for the past 200 years. Those interested in attending the five-week seminar, may pick up bibliographies at the Chaplain's House, 312 Memorial Drive.

THE INSTITUTE CALENDAR

March 24
through
April 4

Events of Special Interest

Alternative Energy Sources Symposium* – Sponsored by Industrial Liaison Program, Sigma Xi & UROP, Wed, Mar 31. Registration 12:30pm, Rm 9-150. Introduction by James D. Bruce, electrical engineering, associate dean, School of Engineering. Undergraduates presenting projects: Coal Gasification, Kevin Bennet, Chem E, 1:15pm. Fuel Gas from Seaweed, Ralph Troiano, Chem E, 2pm. Darrius Windmill for Small Power Requirements, Tom Davidson, M E, 3pm. Thermic Diode Solar Panels, Gerald W. Fly, M E, 3:45pm.

April Fools Day Open Reading* – Sponsored by Writing Program of the Humanities Department. Everyone is invited to come read their work or listen to others. Thurs, Apr 1, 5-7pm, Rm 14E-304. Refreshments 4:30pm, Rm 14E-310. Info: x3-7894.

Seminars and Lectures

Wednesday, March 24

History and Significance of Fish Protein Concentrate** – Ernst R. Pariser, advisory services officer, Sea Grant Program. Women's League Seminar. 11am, Rm 10-340. Followed by sherry, 12:30pm, & luncheon, 1pm. Cost: \$2.25. Reservations: Mary Pinson, Rm 10-342.

Thursday, March 25

Multistep Laser Spectroscopy in Atomic Uranium* – R. Solarz, Lawrence Livermore Laboratory, Berkeley, Calif. Laser Spectroscopy Seminar sponsored by Laser Physics Laboratory and Spectroscopy Laboratory. 11am, Rm 10-105. Coffee 10:30am.

DNA Repair in Various Cell Lines and Human Fibroblast Strains* – Dr. James D. Yager, Jr., biological sciences, Dartmouth College. Nutrition & Food Science Seminar. 4pm, Rm 16-134.

Distribution, Abundance, and Migration of Sharks in the Western North Atlantic* – Jack Casey, National Marine Fisheries Service, Narragansett, RI. Migrants in the Sea: Sharks, Whales, and Man, Lecture sponsored by New England Aquarium & MIT Sea Grant Program. 7pm, NE Aquarium auditorium.

Monday, March 29

Some Combinatorial Problems* – Paul Erdos, Hungarian Academy of Science, Hungary. Applied Mathematics Colloquium. 4pm, Rm 2-338. Coffee 3:30pm, Rm 2-349.

Interactive Man-Machine Locomotion Systems* – Rajko Tomovic, chairman of electrical engineering, University of Belgrade, Yugoslavia. RLE & ESL Seminar. 4pm, Rm 36-428.

Calculus with Set-Valued Derivatives* – Hubert Halkin, University of California. Control & Communications Seminar. 4pm, Rm 39-500.

Tuesday, March 30

Electron Heating and Profile Control in Tokamaks with Lower-Hybrid RF Power* – Abraham Bers, electrical engineering. RLE Plasma Theory Seminar. 11am, Rm 36-261.

Technology and Development** – Gustav Papanek, chairman of Department of Economics, Boston University. Seminar on Technology, Merit & Equality. 12n, Stu Ctr Mezzanine Lge.

The Design of Instruments for Use in the Sea* – William McFadden. Strobe Lab Seminar. 12n, Rm 4-402.

Design of a Thermal Operational Amplifier* – Roger L. McCarthy, G. Mechanical Engineering Systems & Design Division Seminar. 12n, Rm 3-465. Coffee & tea provided, bring lunch.

Limitations on the Formal Solution of Control Tasks* – Rajko Tomovic, chairman of electrical engineering, University of Belgrade, Yugoslavia. RLE & ESL Seminar. 3pm, Rm 39-500.

An Aerodynamic Theory of the Flute* – Michael S. Howe, assistant director of research in acoustics, University of Cambridge. Applied Mechanics Seminar. 3pm, Rm 3-133. Coffee 4pm, Rm 1-114.

Long Range Planning Issues in Defense Policy Making* – Charles Herzfeld, technical director, ITT's Defense-Space Group. Seminar on Technology and International Security. 4pm, Rm E53-482.

Optimizing Claims Fluctuation Reserves* – Christoph Haehling von Lanzener, visiting professor, Sloan School. Operations Research Center Seminar. 4pm, Rm 12-142. Refreshments.

Aero/Astro General Seminar* – Speaker to be announced. 4pm, Rm 35-225. Coffee 3:30pm, Rm 33-222.

Prospects for Syn Fuel from Coal* – Jack Howard, chemical engineering. Nuclear Engineering Energy Assessment Group Seminar. 4pm, Rm 24-121.

Raindrop Size Distributions Measured Simultaneously at Different Altitudes on a Mountain Slope in Switzerland* – Jung Joss, Centrale Meteorologica Svizzera, Observatorio Ticinese, Switzerland. Meteorology Seminar. 4pm, Rm 54-100. Refreshments 3:30pm, Rm 54-923.

Ultrasonic Absorption and the Kinetics of Internal Proton-Transfer Reactions in Proteins and Uniform Polypeptides* – Leon Slutsky, chemistry, University of Washington. Seminar in Physical Chemistry. 4pm, Rm 4-370. Coffee 3:45pm, Rm 6-321.

Regulation of Cyclic Amp-Dependent Protein Kinases* – Dr. Ora Rosen, medicine & molecular biology, Albert Einstein School of Medicine, NY. Biology Colloquium. 4:30pm, Rm 6-120. Coffee 4pm, Bldg 56, 5th fl vestibule.

Wednesday, March 31

Optimization Methods in Computer-Aided Design* – E. Polak, electrical engineering & computer sciences, University of California, Berkeley. EE & CS Systems & Control Seminar. 11am, Rm 39-500.

Holistic Teaching-Learning* – Alvin White, visiting scientist, DSRE. DSRE Luncheon Seminar. 12n, Rm 20C-117. Lunch \$1.

Pressure and Velocity Measurements in the Florida Straits* – Carl Wunsch, physical oceanography. Oceanography Sack Lunch Seminar. 12n, Rm 54-311. Bring lunch, coffee available.

Construction of 150 KV Pulsed Supply for a Duoplasmatron* – Alan Forbes, G. Nuclear Engineering Plasma & Controlled Fusion Seminar. 3pm, Rm 38-136.

A Technology of Social Production: Modern Management and the Expansion of Engineering* – D. Noble, postdoctoral fellow in humanities & engineering. Technology Studies Seminar. 4pm, Rm 20D-205. Coffee 3:30pm.

Grain Boundaries in Ceramics* – Rowland Cannon, ceramics. Materials Science Panel Seminars. 4pm, Rm 13-5101. Refreshments 3:30pm, Rm 13-5002.

Nuclear Engineering Seminar* – Eric C. Guyer, G. 4pm, Rm NW12-222.

Thursday, April 1

Laser Raman Spectroscopy of Biomolecules* – Richard C. Lord, chemistry, director of Spectroscopy Laboratory. 11am, Rm 10-105. Coffee 10:30am.

Materials Supplies and Public Policy* – J. Herbert Holomon, engineering, director of Center for Policy Alternatives. Seminar on Materials Resource Policy. 3pm, Rm 13-5101.

Spin Labels as Macromolecular Probes* – Walter Herlihy, G. Analytical Chemistry Seminar. 4pm, Rm 8-105.

Design of Water-Quality Sampling Programs for River Networks* – Graeme C. Dandy, G. Ralph M. Parsons Laboratory Water Resources and Environmental Engineering Seminar. 4pm, Rm 48-416. Coffee 3:45pm, Rm 48-410.

Giant Atoms* – Daniel Kleppner, physics. Physics Colloquium. 4:15pm, Rm 26-100. Refreshments 3:45pm, Rm 26-110.

Diving in Whales and Man* – John Kanwisher, WHOI. Migrants in the Sea: Sharks, Whales and Man, Lecture sponsored by New England Aquarium and MIT Sea Grant Program. 7pm, NE Aquarium auditorium.

Discussion of Life on a Kibbutz* – Don Tocker, American immigrant to Israel, part of group which founded Kibbutz Ketura. Sponsored by Hillel. 7pm, Burton Hse conference rm. Call Hillel, x3-2982, if plan to attend.

Friday, April 2

Some Thoughts on Process Synthesis* – Arthur W. Westerberg, University of Florida. Chemical Engineering Seminar. 2pm, Rm 66-110. Coffee.

Poetry Reading* – Robert Pinsky, English, Wellesley College; author of *Sadness and Halpiness* and *Contemporary Poetry and its Traditions*, will read from his works. Sponsored by Humanities Department & I. Austin Kelly 3rd Fund. 3pm, Rm 4-156.

Satellite Oceanography* – John N. Newman, naval architecture. Ocean Engineering Department Tankard Seminar. 3pm, Rm 3-446. Refreshments 4pm, Rm 5-314.

Parallax: Perspectives on Photography* – Elliott Erwitt, photographer. Sponsored by MIT Creative Photography Gallery & Polaroid Foundation in conjunction with Hayden Gallery exhibit. 8pm, Rm 26-100. Free.

Community Meetings

MIT Club of Boston Dinner Meeting* – John F. Collins, consulting professor of urban affairs at the Sloan School & former Mayor of Boston, will speak on "The Criminal Justice System – Can It Be Improved?" Meeting Wed, Mar 24, cocktails (cash bar) 6pm, chicken dinner 7pm, Faculty Club. Cost: \$7.50/prsn. Reservations.

Parents' Discussion Group** – Allison Lavin, parent educator from Brookline Early Education Project, will discuss "The Emergence of Language in Young Children". Sponsored by Medical Department. Fri, Mar 26, 12:30-2pm, 3rd fl conference rm, Infirmary.

MIT Faculty Club Dinner Dance*** – Fri, Mar 26, 7pm-12m. Dinner served 5:30-8pm, choice of roast sirloin of beef or poached fillet of sole with lobster sauce. Dancing begins 8:30pm. Cost: \$15/couple. Reservations: x3-4896.

MIT Women's Forum** – Meetings Mon, 12n, Rm 10-105 (Tues in case of holiday.)

Project MUG* – Micro Users Group meeting Tues, Mar 30, 7pm, Rm 16-310.

Sale of Original Prints* – Sponsored by MIT Student Art Association. Prints of lithographs, silk screens, woodcuts & etchings from Ferdinand Roten Galleries. Wed, Mar 31, 11am-6pm, Sala.

Oneg Shabbat* – Sponsored by Hillel. Daniel Shevitz, Hillel director at Northeastern, will speak on "Kabbalah". 9:30pm, Ashdown crafts lge.

The Wives' Discussion Group** – Led by Myra Rodrigues, social worker; Charlotte Schwartz, sociologist; & Carol Hulsizer, faculty family in residence, Ashdown. 2:15pm, Stu Ctr West Lge. Babysitting Stu Ctr Rm 473.

Social Events

Strat's Rat – Sat, Mar 27, 8:30pm, Sala or Lobdell. Free, light & dark beer sold (\$35/16 oz glass). Bottles of wine & coke also

available. WTBS providing live announcer & records. College ID required.

Israeli Party* – Wed, Mar 31, 8:30pm, Rm 10-105. Houmus & falafel, music & dancing. Sponsored by Hillel. Movie, "The Walls of Jerusalem", will be shown. Bring your friends.

Aero/Astro Annual Spring Picnic – Sat, Apr 3, Draper Laboratory Flight Facility. Undergraduates & graduates in Course XVI, first year students and undesignated sophomores are invited. Food, conversation, and working demonstrations of research related equipment, including model rockets & laser holography, will be featured. Transportation provided. Reservations: Mrs. Marks, x3-4926 (Rm 33-119) or David Akin, x3-2278 (Rm 33-222) by noon, Apr 2.

Trip to Newport – Sponsored by Hillel, Bentley College and other area universities, Sun, Apr 4. Will include trip to Tourro Synagogue. Info: Bob Schloss, x5-9623 Dorm or x3-2982.

24 Hour Coffeehouse* – Enjoy relaxing conversation, piano playing, inexpensive food, candy & drinks. Open 24 hours per day, 7 days per week, Stu Ctr 2nd fl lge.

Movies

The Juggernauts** – LSC. Fri, Mar 26, 7 & 9:30pm, Rm 26-100. Admission \$.75, MIT or Wellesley ID required.

Room at the Top* – MIT Film Society. Fri, Mar 26, 7:30 & 9:35pm, Rm 6-120. Admission \$1.

Pretty Maids All in a Row** – LSC. Sat, Mar 27, 7 & 9:30pm, Rm 26-100. Admission \$.75, MIT or Wellesley ID required.

Meet John Doe** – LSC. Sun, Mar 28, 6:30 & 9pm, Rm 26-100. Admission \$.75, MIT or Wellesley ID required.

Surface Tension; Low Reynolds Number Flow* – Fluid Mechanics Films. Mon, Mar 29, 4pm, Rm 33-319. Free.

Work** – Humanities Film. Mon, Mar 29, 8pm, Rm 14N-0615. Free.

The Plaintiff of Steve Kreines as Recorded by his Younger Brother Jeff (J. Kreines); David Holzman's Diary (McBride)** – Film Section. Tues, Mar 30, 7pm, Rm E21-010.

Pride and Prejudice** – Humanities Film. Tues, Mar 30, 7pm, Rm 10-250. Free.

Lady in the Lake (Montgomery)** – Film Section. Wed, Mar 31, 7pm, Rm E21-010.

Surface Tension; Low Reynolds Number Flow* – Fluid Mechanics Films. Thurs, Apr 1, 4pm, Rm 33-319. Free.

Jesus Christ Superstar** – LSC. Fri, Apr 2, 7 & 9:30pm, place TBA. Admission \$.75, MIT or Wellesley ID required.

Wind from the East* – Film Society. Fri, Apr 2, 7:30 & 9:30pm, Rm 6-120. Admission \$1.

The Magnificent Seven** – MidNite Movie. Fri, Apr 2, 12m, Lobdell or Sala. Free, MIT or Wellesley ID required. Bring blanket to sit on.

The Fortune** – LSC. Sat, Apr 3, 7 & 9:30pm, Rm 26-100. Admission \$.75, MIT or Wellesley ID required.

Twelve Angry Men** – LSC. Sun, Apr 4, 6:30 & 9pm, Rm 26-100. Admission \$.75, MIT or Wellesley ID required.

Lobby 7 Events

Suitcase Circus* – With Hank Chapin and Amy Darley. Wed, Mar 31, 12n, Bldg 7 Lobby. Free.

Music

Chamber Music Society Concerts* – Wed, 5:15pm, music library, Bldg 14E. Free. Info: x3-4892.

Theater and Shows

MIT Dramashop Auditions – Auditions for major spring production, Tennessee Williams' *The Night of the Iguana*, directed by Joseph Everingham. Mon-Wed, Mar 29-31, 7:30pm, Kresge Little Theatre.

Fiddler on the Roof* – MIT Musical Theatre Guild production. Performances Apr 2, 3, 9 & 10 at 8pm; Apr 4 & 10 at 2pm; Kresge. Tickets: \$3.50, \$2.50 with MIT ID, \$2 children under 12 with an adult. Reservations & info: x3-6294 or x5-9155 Dorm.

Dance

Folk Dance Club Spring Festival* – Workshops in Balkan dancing by Steve Murillo Sat, Mar 27, 10am-1pm & 2-5pm. Israeli workshops by Danny Vziel Sun, Mar 28, 10:30am-1pm & 2:30-5pm. Performance Sat, Mar 27, 7:30-9pm, followed by party until 12m. Admission \$1.25/session, \$5 for block of 5 if bought in advance. Prices higher for non-MIT. Info: Nina, x5-6548 Dorm or Paul, x5-6395 Dorm or come to Club events.

Folk Dance Performances* – Performances of Irish, Scottish, Morris, Israeli and belly dancing as well as Balkan singing & music. Sponsored by Folk Dance Club. Sat, Mar 27, 7:30-9pm, Sala. Admission \$.75. Tickets available at Club events and at door.

Advanced Swing (Jitterbug) Workshop* – MIT Ballroom Dance Club. Will review basic steps & learn more complex ones. Beginners welcome. Sun, Apr 4, 2-5pm, Sala. Info: Sharon Pastoriza, x5-8667 Dorm.

MIT Folk Dance Club – International: Sun, 7:30-11pm, Sala. **Balkan:** Tues, 7:30-11pm, Stu Ctr 491. **Informal:** Fri, 12n-2pm, Kresge Oval (in good weather). **Israeli:** Thurs, 7:30-11pm, Sala.

Exhibitions

Photographic Portraits of Historic Houses in Newton, Mass* – Rotch Library exhibit thru Fri, Mar 26, during library hours.

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 Special Assistants for Women and Work (10-215), and Minority Affairs (10-211), and in the Personnel Office (E19-239). Personnel interviewers will refer any qualified applicants on all biweekly jobs Grades II-IV as soon as possible after their receipt in Personnel. Persons who are not MIT employees should call the Personnel Office on extension 3-4251.

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

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|------------------------------|--------|
| Dick Higham | 3-4278 |
| Pat Williams | 3-1594 |
| Carolyn Scheer | 3-1595 |
| (secretary — Sally Erickson) | |
| Virginia Bishop | 3-1591 |
| Mike Parr | 3-4266 |
| Ken Hewitt | 3-4267 |
| (secretary — Joy Dukowitz) | |
| Sally Hansen | 3-4275 |
| Lewis Redding | 3-2928 |
| Richard Cerrato | 3-4269 |
| (secretary — Susan Bracht) | |

Exempt, House Manager to manage overall function of individual housing unit and to supervise unit employees. Will help establish and monitor budgets; plan long-range housekeeping and maintenance programs. Requires high school graduation, or its equivalent, plus 3 yrs. supervisory experience. Must be familiar with housekeeping and large building maintenance; basic accounting, clerical procedures. Must be able to plan, monitor work schedules; order supplies, services. E76-8.9 (3/24).

Sponsored Research Staff, Technical Asst., in Architecture Dept. lab for research and teaching related to computer-aided design. Duties include new facility design, assisting students and supervision of equipment maintenance. Candidates must have experience in digital circuit design, digital systems, computer graphic technologies, organization and administrative skills, knowledge of PL/I and LISP programming language. Position begins 8/1/76. D76-40 (3/24).

Sponsored Research Staff, Staff Scientist, in the Neurosciences Research Program to work on conceptual problems at various levels on brain research (molecular, cellular, neural, behavioral). PhD and sufficient related research experience to be able to critically evaluate scientific literature required. Applicants should have strong capability for creative conceptualizations and theoretical work. Appointment (beginning 7/1/76) is for 1 year but may be extended. D76-30,31,32. (3/17).

Sponsored Research Staff, Computational Physicist, in Research Laboratory of Electronics to develop numerical analysis of problems in experimental and theoretical programs in plasma physics. PhD in Physics with good knowledge of main theoretical methods in plasma physics, excellent familiarity with use of computers to solve complex and analytical problems required. D76-33 (3/17).

Sponsored Research Staff, Project Coordinator to work with Director of the Energy Laboratory. Duties include acting as liaison between Program Directors and Faculty Coordinators, contact with contracting agencies and industry. Coordination of report preparation, and of technical planning of new projects; assist Director in technical management and long-range planning; direct Committee work. Engineering degree, a broad technical, scientific background with extensive technical management experience, proven writing and speaking skills required. A Management degree (or comparable experience) also necessary. D76-34 (3/17).

Academic Staff, Systems Analyst/Senior Systems Analyst to be responsible for all aspects of Medical Department computer system: plan and define objectives and requirements; design, implement and document programs; maintain security of confidential data base; prepare and monitor budgets; act as liaison with departmental staff. Bachelors degree, extensive systems analysis, PLI programming and other computer related activities required. Familiarity with the Transactions Processing System (TPS) preferred. C76-3 (3/17).

Exempt, Nurse Practitioner or Physician Assistant in Medical Department Off-Hours Clinic: Duties include treatment of episodic illness, preventative health care, initiation of screening and diagnostic evaluation of patients. Mass. Registered Nurse who has completed an Adult or Family Nurse Practitioners Program or Physician Assistant Program, and has a minimum of 2 years nursing experience, preferable in Ambulatory care and/or Emergency Room, required. Schedule: 4pm-12m weekdays, with an occasional day shift; rotate 8am-4pm or 4pm-12m weekend and holiday shift. E76-7 (3/17).

Tech. Asst. IV, part time in Architecture, Design Evaluation Project, a post-construction evaluation of federal housing for the elderly. Duties include field work, data analysis, report preparation. Techniques used are interviewing, observation, behavior mapping and photography. BA in Architecture, or related field, strong design background including drafting experience, familiarity with behavioral science methodologies required. Candidates should also be able to do qualitative analysis of data and have written and graphic communications skills. 20 hrs/wk. B76-107 (3/24).

Secretary IV to Science Librarian and professional staff: type correspondence, reports; sort and distribute mail; prepare payroll reports; maintain files and records; collect fines; coordinate maintenance and repair; handle meeting room reservations. Secretarial school training plus two years experience necessary. Candidates must have organizational ability and be able to work without close supervision. B76-109. (3/24).

Secretary IV to three Chemistry faculty members: type correspondence, technical manuscripts, course materials; arrange appointments and travel; monitor research accounts. Ability to set priorities, good typing skill, experience with dictation equipment necessary. B76-113 (3/24).

Secretary IV in Chemistry Dept. to faculty member/Editor of the *Journal of Organic Chemistry*: will process large volume of manuscripts; maintain journal statistics; type reports, course material and handle other routine secretarial duties. Organization skill, ability to handle detailed work, English grammar skill, good typing required. Minimum of 2 years experience preferred. B76-117 (3/24).

Receptionist-Secretary IV in the MIT Planning Office to greet visitors, answer phones; answer inquiries about Office projects; provide information on Institute physical facilities or refer such inquiries to appropriate department or person. Will also assist with typing and other office duties as required. Typing skill, secretarial experience required. Familiarity with MIT, editorial and writing skills preferred. B76-108 (3/24).

Secretary IV in the Office of the Dean, School of Humanities and Social Science will handle general secretarial duties for Dean, Associate Dean and Administrative Officer; type; maintain calendars; answer phone; file. Will also act as information resource for students on matters such as Humanities programs, registration procedures, etc. Must have excellent typing and organizational skills. Flexibility, ability to work in service-oriented capacity and under occasional pressure also required. B76-115 (3/24).

Secretary IV to 3 Chemistry Department faculty members to type correspondence and technical material (class notes, manuscripts, reports); answer phones; file; arrange travel and appointments; monitor accounts; answer student inquiries. Requires good typing and organizational skills, flexibility, initiative. 2-3 years experience plus technical typing ability preferred. B76-117 (3/24).

Secretary IV in the Energy Lab to perform general secretarial duties for 3-4 persons: type correspondence and other material; answer phones; arrange appointments; monitor accounts; compile budget data; enter data into computer terminal (will be trained). Good typing, general secretarial skills required. Interest in computer-oriented projects helpful. B76-116 (3/24).

Editorial Secretary IV in Graphic Arts to prepare camera-ready justified and tabular material on IBM proportional spacing electric typewriter; operate Compugraphic Compu-Write I, II and 7200 phototypesetting and photoreading systems. Knowledge of typesetting terms, justification, quadding, leading, kerning, type styles, specification, required. High school graduate or equivalent, excellent typing and relevant working experience required. B76-19.

Secretary IV to several Mechanical Engineering Faculty members will type varied material; arrange travel, appointments, coffee seminars; maintain accounts; excellent typing, basic book-keeping skills, shorthand and/or machine dictation skill, ability to interact well with people required. B76-93 (3/17).

Editorial Secretary IV, temporary, Nutrition and Food Science to assist the editing of scientific manuscripts. Will type technical material consisting of tables, scientific terminology (few equations). Requires good typing, grammatical skills. Familiarity with chemistry and biology helpful. Will be trained to use MT/ST machine. Position will be for 3 months with possible extension up to 6 mos. B76-99 (3/17).

Secretary IV in Resource Development's Leadership Campaign Office to provide general support: arrange appointments; travel; compose correspondence; type from machine dictation. Requires excellent typing, organizational skills; ability to set priorities and work independently. At least 2 years experience necessary. College background plus MIT experience preferred. B76-100 (3/17).

Secretary IV in Nutrition and Food Science to type scientific manuscripts, correspondence; arrange travel for large research group; prepare purchase orders and other documents. At least 1 year's secretarial experience, excellent typing required. Knowledge of biological and/or chemical terminology, shorthand skill helpful. B76-104 (3/17).

Secretary IV to the Administrative Officer, Chemical Engineering. Duties include transcribing shorthand and machine dictation, maintaining files, grant and contract records. Will assist in departmental visit arrangements. Previous office experience and preferably, secretarial school training

required. Applicants should be able to organize and complete work with minimal supervision, to deal effectively with wide variety of people and be experienced in shorthand and machine dictation. B75-543

Secretary III-IV in Research Laboratory of Electronics to faculty members and research staff. Will perform general secretarial duties including technical typing of reports and proposals. B76-102 (3/17).

Secretary III-IV in the MIT Associates Program to transcribe shorthand dictation; arrange travel; maintain files. Secretarial or business school training, shorthand, English grammar skill, familiarity with office procedures required. 1-2 years secretarial experience helpful. B76-110 (3/24).

Secretary III-IV to two faculty members in Electrical Engineering and Computer Science Department will type course material (including technical typing), reports, proposals; arrange appointments, travel. Requires technical typing skills, initiative, ability to work without supervision. B76-97 (3/17).

Secretary III in the Industrial Liaison Office to assist in Conference preparations: type related materials; phone registrations; assist in registration process; handle travel-related duties: reservations, cash advances, itineraries; compile statistics; sort and distribute mail; may assist other secretaries or staff in peak loads. Strong typing skill, pleasant phone manner required. Familiarity with MT/ST and dictation equipment helpful, but not required. B76-114 (3/24).

Library Asst. III, part time, in the Science Library to expedite photocopy requests; identify required materials; search catalogues; obtain and charge materials; maintain records; make copies for rush requests; supervise student assistants; assist in bibliography preparation; type. Initiative, ability to work with minimal supervision, interest in bibliographic searching required. Typing skill also necessary. 10am-1pm, M-F. B76-118 (3/24).

Clerk Typist III in MIT Development Office to perform duties relating to fund-raising efforts of the Institute: filing; updating of files; typing — all in support of Development Office Analysts, strong organizational skills, accuracy with English grammar, good typing required. B76-103 (3/17).

Sr. Clk-Typist III for Neurosciences Research Program: type program Bulletin on IBM MTST/Selectric Composer System (will be trained). Will also provide audio/visual assistance: project and copy slides; tape-record meetings; set up conference rooms; maintain files, equipments, library and journal storage. Must have good typing skills. B76-39.

Jr. Accounting Clk. II, temporary, in the Summer Session Office to perform varied clerical duties: handle payment receipts, purchase orders; process refunds, housing and other charges; file; post payments; type order forms, vouchers; prepare statistics. Will also help with registration: answer phones, address envelopes. Requires ability to work under pressure, deal with public. Typing and organizational skills necessary. Must be able to report to work at 7:45am every Monday throughout summer. Temp., May-August, 1976. B76-98 (3/17).

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

- ADMINISTRATIVE STAFF:**
 A75-65, Aquisitions Editor, MIT Press (12/3)
 A75-71, Documentation Mgr., Off. of Admin. Inf. Syst. (1/7)
 A76-2, Prog. Analyst, Inf. Proc. Center (2/18)
 A76-4, Systems Programmer, Inf. Proc. Center (2/25)

- BIWEEKLY:**
 B76-65, Clk./Keypuncher III, Physical Plant (2/25)
 B76-69, Tech. Asst. V, Medical Dept. (2/25)
 B76-83, Sec. IV, Medical Dept. (3/10)
 B76-89, Clerk-Typist III, Summer Sessions Office (3/17)
 B76-90, Sec. IV, MIT Devel. Foundation (3/17)

- SPONS. RES. STAFF:**
 D75-48, Economist, Energy Lab. (6/25)
 D75-120, Systems Programmer, Lab. for Nuc. Sci. (11/26)
 D75-161, Economist/Policy Analyst, Energy Lab. (9/10)
 D75-219, continuing education, Chemical Eng. (11/5)
 D75-229, Research Engineer, Energy Lab. (11/19)
 D75-232, Programmer, Center for Space Research (11/26)
 D75-243, postdoc. res., computer science, Artificial Intell. Lab. (1/7)
 D75-244, postdoc. res., computer science, Artificial Intell. Lab. (1/7)
 D75-249, postdoc. res., physics, Lab. for Nuclear Sci. (1/14)
 D75-250, postdoc. res., physics, Lab. for Nuclear Sci. (1/14)
 D76-7, Project Coordinator, Energy Lab. (1/28)
 D76-12, postdoc. res., National Magnet Lab. (2/18)
 D76-14, Tech. Asst., Arteriosclerosis Center (2/18)
 D76-17, Biochemist, Res. Lab. Elec. (2/25)
 D76-18, postdoc. res., Lab. for Nuclear Sci. (3/3)
 D76-19, postdoc. res., Lab. for Nuclear Sci. (3/3)
 D76-21, Data Analyst, Energy Lab. (3/3)
 D76-22, Laser Physicist, National Magnet Lab. (3/3)
 D76-23, Programmer, Lab. for Comp. Sci. (3/10)

INSTITUTE NOTICES

Announcements

IPC April Courses—Introduction to Simscript, Apr 5, 7 & 9; Introduction to Multics, Apr 5, 7, 9, 12 & 14; Elementary PL/I, Apr 6, 8, 13, 15, 20 & 22; Improving Program Efficiency, Apr 21. Preregister with Lynne Penney, Rm 39-427, x3-6320.

Undergraduate Seminars—Faculty members are needed to teach undergraduate seminars next fall. Please call undergraduate seminar office (x3-3621) or Ernie Cravalho, faculty chairman (x3-3282) for information.

Preparation for Marriage Seminar—Conducted by married couples of MIT community, with assistance of associate chaplain Rev. Basil De Pinto. An explanation of questions and concerns of engaged couples. Afternoons, Sat, Mar 27 & Sun, Mar 28, W-2A, 312 Memorial Dr. Fee: \$10. Preregistration required, x3-2981.

Nominations—Award nominations are being accepted for Compton, Stewart, Murphy and Baker awards. Deadline is Wed, Apr 7. Information: Dean Robert Holden, Rm 7-101, x3-6774.

Discount Tickets—Discount tickets for Wed, Mar 24 BSO open rehearsal are on sale now at TCA office, Stu Ctr Rm 450, x3-4885, 11am-3pm.

Student Furniture Exchange—Open Tues & Thurs, 10am-2pm. Buy and sell to students, tax-free donations gratefully accepted. 25 Windsor St. x3-4293.

Guatemalan Relief Fund—Bring contributions to the Foreign Student Office, Rm 3-107. Cash, or checks payable to "CARE-Guatemalan Relief Fund."

MIT Hobby Shop—The Hobby Shop is reorganizing storage facilities. Shop members should claim lumber and projects by Mon, Apr 5, or else they will be discarded.

Child Care—Immediate opening for child 3-5 years old in Technology Childrens Center Day Care Program. Information: x3-1592 or drop by office, Rm 4-144.

Placement

The following companies will be interviewing during the time period covered by the current Institute Calendar. Those interested may sign up in the Career Planning and Placement Office, Mon-Fri, 9am-3pm, Rm 10-140, x3-4733.

Monday, March 29—General Atronics Corp, subsidiary of the Magnavox Co; Bell Telephone Labs, Inc; ACTION/Peace Corps. **Tuesday, March 30**—Bell Telephone Labs, Inc.; ACTION/Peace Corps. **Wednesday, March 31**—The Analytic Sciences Corp. **Thursday, April 1**—Metropolitan Life Insurance Co; Digital Communication Corp.

Graduate Studies

Marron W. Fort Fellowship
 This Fellowship was established at MIT in honor of the late Dr. Marron W. Fort, the first known black American to receive a PhD from MIT. Its purpose is to encourage MIT minority students with outstanding scholarly qualities to consider graduate study at MIT. Any minority senior may apply directly; persons may also be nominated by departments or faculty members at MIT. The Fellowship covers tuition and living expenses for nine months, a total of \$6,925 for 1976-77. Further information is available from Dean John B. Turner, Rm 3-136, x3-4846. Deadline for application, March 29, 1976.

- D76-24, Programmer, Artificial Intell. Lab. (3/10)
 D76-25, Asst. Proj. Dir., Joint Ctr. Urban Stud. (3/10)
 D76-28, Energy Analyst, Energy Lab. (3/17)

- HOURLY:**
 H75-55, Tech. B., Lab. for Nuclear Sci. (6/25)
 H75-143, 2nd. Cl. Eng. (10/15)
 H76-20, Cook, Endicott House, Dedham (2/25)

- The following positions have been FILLED since the last issue of *Tech Talk*:
 B75-685 Sec. IV
 A76-1 Admin. Staff.
 B76-63 Sec. IV
 B76-57 Acctg. Asst. V
 D75-167 DSR Staff
 B76-24 Sec. IV
 B76-14 Sec. IV
 B76-64 Sr. Clk. III
 E76-6 Prog/Comp. Oper. Supervisor
 B76-95 Keypunch Operator III
 B76-91 Sr. Clerk IV

The following positions are on HOLD pending final decision:
 A76-3 Admin. Staff
 B76-92 Lib. Asst. III
 H75-117 Tech. B.

Club Notes

MIT Auto Club**—Meetings third Sun of each month. 7:30pm. Stu Ctr Rm 491.

MIT Ballroom Dance Club*—We will be very active this term. For info on workshops & dances call Carl Sharon or Doug King. 536-1300.

MIT/DI Bridge Club**—ACBL Duplicate Bridge. Tues. 6pm. Stu Ctr Rm 407.

MIT Chess Club*—Meetings Sat. 12n-7pm. Stu Ctr 407.

MIT Goju Karate Club**—Mon, Wed & Fri. 7-9pm. Stu Ctr Rm 407. Info: 536-1830.

Hobby Shop**—Mon-Fri. 10am-6pm. Rm W31-031. Fees: \$10/term for students. \$15/term for community. Info, x3-4343.

MIT Juggling Club*—Juggling for beginner thru expert. Sun, 12n-2pm. Walker Gym.

Math Club—Meetings Sun. 4pm. Rm 4-182.

MIT Science Fiction Society*—The Society insists that you visit its incredible library (Stu Ctr Rm 421, x5-9144 Dorm) and attend its unusual non-business meetings Fri. 5pm. Rm 1-236.

MIT Shim Gum Do Club—Instruction by 10th degree black belt in zen swordsmanship, karate and stick fighting techniques. Beginners always welcome. Mon-Fri. 5-7pm. Stu Ctr 4th fl or Sala. Jeff. x3-5934.

MIT Scuba Club*—Spring diving season is starting, come to meeting to plan schedule. Meeting Tues, Mar 30, 6:30pm. Rm 20E-017. All interested divers invited. Refreshments.

Shotokan Karate Club**—Rigorous training for intercollegiate competition & self-defense, given by 6th degree black belt. Mon & Wed, 8pm. Fri, 6pm. duPont T Club lge.

MIT Space Habitat Study Group*—Meetings Thurs. 7pm. Rm 37-252. Interdisciplinary studies on space colonization. Everyone interested is invited. Office: Rm 24-415. Info: B. Hazleton, x3-6625.

Student Homophile League*—Gay Lounge. Rm 50-306, open daily for lunch & random other hours, x5-6745 Dorm. Tom, Contact Line, x3-5440, provides info, referrals, counseling or just talking to gay persons. Meetings 1st & 3rd Sun every month. Gay Lge. Consult bulletin board, Bldg 3, for info.

MIT Tae Kwon Do**—Workouts Mon & Thurs, 5-7pm. Stu Ctr West Lge.

Tiddlywinks Association*—Wed, 8pm. Stu Ctr Rm 473.

Religious Activities

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

Campus Crusade for Christ*—Family Time Fri. 7:45pm, Rm 37-252.

Celebration of Holy Communion**—MIT Lutheran & Episcopal Ministry, Wed, 5:05pm, Chapel. Supper following, 312 Memorial Dr.

Christian Worship Service*—Sun, 10:45am, Chapel. Refreshments following service.

Hillel*—Traditional services Fri. 5:30pm, Koshers Kitchen & Sat, 9am, Chapel. Planning session for Passover seder Wed, Mar 31, 7pm, Hillel Office. Non-traditional services for Shabbat Fri, Apr 2, 8:30pm, Chapel.

Islamic Society**—Prayers Fri, 12n. Kresge rehearsal Rm B.

Prayer Time**—Lunch hour Bible classes led by Miriam R. Eccles, Fri, 1-2pm, Rm 20E-226. All are welcome.

Tech Catholic Community*—Weekday masses: Tues & Thurs, 5:05pm; Fri, 12:05pm, Chapel. Sun masses: 9:15am, 12:15pm, 5:15pm, Chapel.

Vedanta Society*—Meditation and Gita led by Swami Sarvagatananda, Fri, 5:15pm, Chapel.

CABLE TV SCHEDULE

March 24-31

Channel 8:
 Friday, March 26:
 9:00am Decision Analysis #7—Dr. Myron Tribus

Monday, March 29:
 9:00am Decision Analysis #7—Dr. Myron Tribus (repeat)

8:00pm Electromagnetic Fields and Energy (6.013), Prof. H. Haus, Problem Solving #5 (live)

Tuesday, March 30:
 8:00pm Electromagnetic Fields and Energy (6.013), Prof. H. Haus, Problem Solving #5 (repeat)

Because of the spring break (March 22-26) there will be no programming on Channel 10.