Massachusetts Institute of Technology



May 9, 1979 Volume 23 Number 34



Framed by a flowering crabapple tree in bloom, workmen from Physical Plant began installing the footings -Photo by Calvin Campbell for the Commencement stage that will be erected soon in Killian Court.

#### Work Begins In Ki ourt

Staff Writer

Intensive, visible effort began last week on the transformation of Killian Court into an amphitheater for MIT's first outdoor Graduation Exercises in more than 50 years, weather permitting, on June 4.

The first work completed in Killian Court was the temporary removal of a row of bushes near Memorial Drive to open up a center aisle through which the commencement procession will march.

This week work is underway on the installation of the center stage where the guests of honor will be seated and the graduates will receive their degrees. Later two rented wings will be added at either side for the seating of members of the Corporation and the fac-

Altogether, the staging will be 130 feet across and 45 feet deep. In addition, there will be a new rostrum and tables for diplomas and hoods. The main stage and its appurtenances have all been built on the campus by Institute carpenters under the supervision of Dick DeWolfe, manager of building maintenance.

Later the Institute electricians and sound technicians, under the direction of Paul Blanchard, manager of electrical services, and Frank Cook, supervisor of Graphic Arts audio-visual services, will install a sophisticated sound system, including two 1200-pound speakers, so that the audience will hear the proceedings clearly.

The final touches in Killian Court will come at the end of the month when-count them-6,500 chairs will be delivered and set up over a two-day period. At the same time refreshment tables will appear in the adjacent duPont and Lowell Courts to accommodate the postcommencement receptions for the five schools. These activities will be carried out under the supervision of Larry Pickard, manager of grounds services. Sal Lauricella of Food Services is in charge of refreshments for the reception.

All of these activities will be noticed by the neighbors of MIT's great greensward, but there is also

(Continued on page 3)

## Three Mile Island Forum Planned

Prompted by the accident at Three Mile Island, a group of MIT graduate students interested in how our society decides technological issues has organized a two-day meeting-Three Mile Island: Public Risks and Technical Decisions.

The meeting—open to the public—will begin at 7pm Friday, May 11, in Rm 54-100 with a speech by Laurence Stern, the Washington Post's assistant managing editor the Post's coverage of the accident. The title of his speech is "Three Mile Island: The Expert, the Press, and the Public.

The sessions starting at 9am Saturday, May 12, in Rm 10-250 will include workshops and panel discussions involving several residents of the Harrisburg, Pa., area. The residents will discuss what kind of information they were receiving during the height of the crisis and offer suggestions about for national news, who coordinated how the information flow could be

Several professors and researchers from MIT and Harvard also will have roles in the meeting.

Lissa Martinez, spokeswoman for the student group, said the twoday meeting will not be a pro-vscon discussion of nuclear power.

"The accident at Three Mile Island," she said, "has made people more aware of how this society uses technology and how this technology affects their lives. The goal of the meeting is to help people understand how technological choices are made so that they may scrutinize these choices and become involved in these decisions."

The students involved in arranging the meeting are enrolled in the Technology and Policy Program of the School of Engineering. The program's thrust is to educate men and women who combine a base in technology with skills in identifying, analyzing and implementing policy issues.

The information gap that developed during the Three Mile

(Continued on page 2)

# Leadership Campaign Reaches \$205 M

The \$225 million five-year Leadership Campaign being conducted by MIT to marshal significant new private support for the Institute's long-term endowment, facilities and program needs has reached \$205 million with a year yet to go.

Howard W. Johnson, Chairman of the MIT Corporation and chairman of the Leadership Campaign, reporting to a recent meeting of

## Awards Convocation

The annual Convocation will be held Friday, May 11, at 11am in the Little Theatre, with Fernando Cruz-Villalba, president of the Graduate Student Council, presiding. Awards will be presented to members of the community in recognition of outstanding contributions in teaching and service. athletics.

MIT's Alumni Council on the fourth anniversary of the launching of the campaign, said \$72 million has been received from or pledged by alumni and friends of the Institute thus far. A further \$60 million, Mr. Johnson said, has been raised in gifts from corporations and another \$73 million has been contributed or pledged by private foundations. Of the \$205 million, Mr. Johnson said, \$53 million has been subscibed for endowment, \$51 million for facilities and \$101 million for current program use. Endowment is now at \$400 million.

Also speaking at the Council meeting Friday evening (April 27) at the MIT Faculty Club was professor Frank Press, on leave as Robert R. Shrock Professor of Geology at MIT, who is serving as science advisor to President Carter in the White House. Professor Press reviewed national research and development programs, their pri-orities as matters of national

(Continued on page 8)

# Millon Assumes New Post At National Gallery Center

Dr. Henry A. Millon, professor of history and architecture at MIT,

been appointed Professor-incharge of the newly-formed National Gallery of Art's Center for Advanced Study in the Visual Arts.

Professor Dr. Millon Millon's appointment as the first head of the new center was announced Monday (May 7) in Washington, DC, where the center is located, by J. Carter Brown, the director of the National Gallery of Art.

The appointment is effective immediately, but Professor Millon will continue his teaching duties during the 1979-80 academic year.

According to Mr. Brown, the need for the Center for Advanced Study in the Visual Arts has been under study for 10 years. Plans call for the first group of resident scholars to be at the center in the fall of 1980.

The center's program will consist principally of offering research facilities to visiting scholars. These will range from US

(Continued on page 3)

# Ephraim Katzir To Present Compton Lecture On Friday

Professor Ephraim Katzir, former president of Israel and head of the Department of Biophysics at the Weizmann Institute of Science in Israel, will deliver a Compton Lecture Friday (May 11), Provost Walter A. Rosenblith has announced.

Dr. Katzir will speak at 4pm in Rm 54-100 on the topic, "A Scientist as President of a State.'

The Compton lecture series was established in 1955 to honor the late Dr. Karl Taylor Compton, MIT president from 1930 to 1948 and chairman of the MIT Corporation from 1948 to 1954.

Dr. Katzir, who served as president of Israel for five years, from 1973 to 1978, was born in Kiev, Russia, in 1916. He received the MSc in 1937 and the PhD in 1941 from Hebrew University in Jerusalem. He remained at Hebrew University through 1946, first as an assistant in the Department of Theoretical and Macromolecular Chemistry and later as a research associate in the Department of Organic Chemistry.

He was a research fellow at the Polytechnic Institute in Brooklyn, NY, and at Columbia University in 1947-48, before he joined the faculty at the Weizmann Institute in 1949.

He has been a visiting professor at Hebrew University, a research

(Continued on page 3)

Because of the end of classes, Tech Talk will not be published on May 23.

No Tech Talk

The Institute Calendar in next week's (May 16) issue will cover the period of May 16 through June 3. Deadline for calendar entries, classified ads and Institute notices will be, as usual, at noon Friday, May 11.

Tech Talk will be published May 30 even though that is a holiday week.

#### **Open House** ast Call For

This Saturday, May 12 from 10am to 4pm, offices, labs and departments throughout the Institute will be open to visitors

for Employees Open House. The biennial event provides a wonderful opportunity for all who work and study here to show their families and friends (and explore for themselves) the variety of activities that make up the workplace at MIT. Displays such as model rocket launches, the arts and crafts show, the model railroad, give an idea of the scope of leisure activities and interests in which MIT people are involved as well.

Of interest to many visitors, though not strictly a part of the Open House, will be the series of panel discussions and workshops on the Three Mile Island incident (see story above).

The meetings will begin at 9am in Rm 54-100 and Open House visitors will be welcome.

Open House programs have been mailed to the homes of all employees, and will be available in the Rogers Lobby along with free balloons and Employees Open House buttons. The programs include chances on a \$100 US savings bond, which should be deposited at the desk in the Lobby. Chances for a trip for two to Venice will also be on sale, sponsored by the Quarter Century Club, with proceeds going to the Community Service Fund. Drawings for the bond and the trip will be made at the Open House Reception in the Sala de Puerto Rico where members of the administration will greet visitors from 2:30 to 4pm. Music and snacks will be provided at the reception as well as the excitement of the drawings.

Come early. Bring the whole family. Have a good time!

Health Plan To Hold Open Meeting premium, members receive com-The MIT Health Plan will hold a prehensive care including routine special information meeting for in-

terested employees Wednesday, May 16, at noon in the Bush Room (10-105). A representative from the Health Plan will be available there from 11am-3pm to answer questions and enroll new members.

There are now 7,000 members in the MIT Health Plan, a prepaid, comprehensive health care program for employees and their families. For a single monthly

health services. Since care is coordinated through the Medical Department, members of the Plan need not make individual arrangements for medical services

Persons who want to join the MIT Health Plan now and those electing to transfer to the Master Medical Plan should attend the May 16 meeting or call the Health Plan office, x3-1322.

## Three Mile Island Forum Planned

(Continued from page 1)

Island accident was of more than academic interest to the MIT students who have organized the May

"Many of us got calls from our parents, who were confused by the sometimes conflicting reports they were hearing on television and reading in the newspapers," Ms. Martinez said. "When you have a son or daughter at MIT why not give them a call when you need an answer to a technological question?"

But finding out what "rad" or "rem" menas wasn't quite that simple for folks in the vicinity of the nuclear plant at Three Mile Island. Some of the workshops scheduled for Saturday will involve the issue of communication with the public, and the responsibility of industry, government and news agency people to produce honest, timely and intelligible information.

Other workshops will deal with energy policy, the health effects of radiation, the politics and methodology of risk assessment, the responsibility of the engineer to society and the ways in which complex systems influence people's

the sessions are:

Robert H. Cunningham, Civil Defense director for Massachu-

# Research Results To NASA Officials

Fourteen MIT students-nine of them undergraduates-had an impressive audience Monday, May 7, for a two-hour presentation on the research projects they are conducting in the Space Systems Laboratory of the Department of Aeronautics and Astronautics.

The audience consisted of the two top officials of the National Aeronautics and Space Administration-Robert Frosch, administrator, and Alan M. Lovelace, administrator-and deputy

Eight of the students made

presentations.

and Professor James W. Mar. Professors Miller and Mar are codirectors.

tunity to report directly to NASA's highest officials on research results was highly unusual.

dents involved in space research in the department," Professor Mar said. "NASA is interested in our program because they are eager to interest young people in space

cause it is developing a technical base for the exploitation of space, experiments to obtain engineering data for the effective use of the productivity in space, the maintelarge space structures, and the cilities in order to capitalize on the unique conditions in space."

#### Eastman Court To Host Dancers

shop, Beth Soll director, will present a performance of original works in the Eastman Court, May 9-11, at 6pm, and May 12, 13, at 3pm.

will offer compositions based on experiments with stillness-the incorporation of mundane movement material into formal structures, costumes and props. Dancers will also encounter the problems and pleasures of working in a large, outdoor environment.

Stuart Diamond, contributing editor at Newsday Magazine, who covered the Three Mile Island

Loyde H. Hartley, dean of the faculty at the Lancaster Theological Seminary in Lancaster, Pa., which is about 20 miles from the

William Ramsay of Resources for the Future, and author of Unpaid Costs of Electrical Energy.

Irwin Bupp of the Harvard Business School, author of a recent book on nuclear power.

the MIT Department of Political Science, named by Governor King to an independent panel to investigate the implications for the

INSTITUTE

Summary of CEP Meeting on May 3, 1979
The Committee discussed the Science Distri-

bution Requirement and the Distribution

portion of the Humanities, Arts and Social

Sciences Requirement. The question of mini-

mum academic standards was also discussed

briefly. There was also an interim report from

the subcommittee reviewing the Experimental

Agenda for the CEP Meeting on May 10, 1979

Report and discussion with members of the task force on the Role of Computers in Edu-

A recent amendment of the 1964 Civil Rights

Act prohibits employment discrimination

because of pregnancy or child birth effective April 29, 1979. These changes eliminate any

coverage distinction between a pregnancy related benefit and any other. Participants in

MIT's two medical plans (Master Medical and MIT Health) will have maternity coverage

available upon enrollment, with the elimina-tion of the eight month waiting period for new

participants. Also, the maximum Master

Medical hospital payment for maternity

accommodations and services (currently \$400/\$1,000) will be eliminated, thereby

equalizing maternity benefits with other

covered physical illnesses that now do not

Health Plan does not have a maximum dollar

The cost of this benefit improvement will be

part of next year's premium rates that are established each July 1, for a twelve month

June Degree Recipients\*\*\*-Post cards

indicating whether diplomas are to be mailed.

called for in person, or if June 4 attendance is

planned, must be returned to E19-344 as soon

Student Loan Exit Interview notices have been

mailed to June degree candidates with loans administered by MIT. Exit Interviews,

mandated by HEW Office of Education, are

required to maintain good standing on degree list. Select appointment date and return form

to E19-225 as soon as possible. Interviews from

10am-4:30pm, May 14, 15, 17, 18, Bush Room

(10-105) and 3-5pm, May 29, 30 and June 1 in OSP Conference Rm (E19-758). Call x3-4007 if

Gibley\*\*—Registration, Thursday, May 17, 10am-12noon, T-Club Lounge. Six week courses

ballet and tap, June 11-July 23, Fee, \$42. Four

week courses ballet, July 30-Aug. 24, Fee. \$28.

Payment must be made at time of registration.

Complete list of freshmen (class of '83)

available at \$4 in aplhabetic and zip code

order, labels and cheshire tapes in zip order, \$5.

at Office of Freshman Advising, Rm 7-103, for

official, non-private use only. Orders must be placed at OFA before 5pm, May 16.

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

MIT Appropriate Technology Group\*—Bag Lunch, 12noon-1:30pm, Wed., May 9, E40-169

speaker, Dennis Livingston, prof. of political

science, Marlboro College, General member-

ship meeting, 5:15-6:45pm, Wed., May 9, E40-169, ATG Open House, 10am-4pm, Sat. May 12, slide shows, demonstrations, re-

freshments. Info: x3-3402, Rm E40-169, 10am-

MIT/DL Bridge Club\*\*-ACBL Duplicate

Hobby Shop \*\* -- Mon-Fri, 10am-6pm, W30-031. Fees: \$10/term for students, \$15/term for

Bridge, Tuesdays, 6pm, Rm W20-473.

community. Info: x3-4343.

Club Notes

5pm, weekdays.

Courses

you cannot attend group session

Dance

as received and no later than May 17.

any dollar maximum. (The MIT

Announcements

**NOTICES** 

**CEP Meetings** 

state of the Three Mile Island acci-

Professor Thomas B. Sheridan of the MIT Department of Mechanical Engineering, a consultant to the Nuclear Regulatory Commission and Babcock and Wilcox, builders of the Three Mile Island plant.

Professor Leon Trilling of MIT, a frequent commentator on the responsibility of engineers to society.

Mitch Tyson, special assistant to Sen. Tsongas on energy and science.

Dr. Edward Webster, professor of radiology at Harvard Medical School, a contributor to the recent report by the National Academy of Sciences on effects of low-level radiation.

Sundays 1-4pm, W20-491. Visitors welcome

Kundalini Yoga Group\*-Wednesdays,

Thursday, 5-6pm in Rm W20-461, to plan up-coming trips and rent equipment. MITOC sponsors hiking, snowshoe, cross-country ski-ing, rock climbing, canoe or bicycle trips every weekend, also occasional slide shows

come. Practice Tuesdays and Thursdays, 5pm, Briggs Field. Games every Saturday. Info: Bruce Glasser, x3-6733, Joel Lederman,

Thursdays, 8-10pm, T-Lounge, DuPont Gym-

designed to relieve stress and promote relaxation. Tuesdays, 5:30-6:30pm, Dance Studio, 2nd floor DuPont Gym.Info: Ganesh,

New members welcome. General meetings, Mondays and Thursdays, 8-10pm, Dancing Room; Saturdays, 3-5pm, T-Club Lounge. Info: dl5-9278.

Physical and mental discipline through pracof Kung-fu. Northern Praying Mantis and T'ai Chi offered. Beginners welcome. Tuesdays, 8-10pm, W20-491, Saturdays, 1-5pm, W20-407. Info: Chen-dao Lin, dl5-9640.

#### Religious Activities

11pm daily.

9:15am, 12:15 and 5:15pm. Weekday masses: Tuesdays and Thursdays, 5:05pm, Fridays,

Service of Holy Communion\*-Wednesdays, 5:10pm in the chapel. All welcome. Sponsored by the Lutheran and Episcopal Ministries.

MIT Islamic Society\*-Weekly Friday pray-

MIT Juggling Club\*—Thursdays 7:30-11pm,

Club Latino-MIT\*-Regular meetings, 7:30pm, Tuesdays, Student Center, room variable. Info: Juan Carlos, 494-0330; Jesus

"ai Chi Club"—An old Chinese exercise

MIT Chinese Martial Arts Club (Wu-Tang)\*—

Tech Catholic Community -- Sunday masses:

Christian Service\*-Sundays, 10:30am,

ers, 1pm, Kresge Auditorium, Rehe Room B.

#### Cable TV

May 9-15,1979

12-1pm MEDIA AND LAW-RIGHTS AND RESPONSIBILITY-Edwin Dia-RESPONSIBILITY—Edwin Dia-mond, Dept. of Political Science, MIT, guest Katherine Harting, As-sociate Producer, ABC World News Tonight. Rec. 4/27/79. THE END OF WHITE SOUTH AFRICA: HOW SOON?—Donald Woods, Author of Biko. Rec.

1-2pm 12/1/78.

DARK CONTINENT—Tom Wicker, Associate Editor, The New York Times. Rec. 4/11/79. EVENING TO RE-

MEMBER-by Video Club. Rec DNA SEQUENCING-Dr. Allen M.

MAXIM, Mass. General Hospital Research Tutorial Series. Live from Harvard. PRINCIPLES ON ANTI-EPILEPTIC 7-9pm

DRUG USE—Dr. T.R. Brown, MD, Clinical Pharmacology; Dr. B.J. Wilder, MD, Medical Therapy. Live via satellite and microwave from the Medical University of South Carolina and Harvard.

Thursday, May 10

12-12:30pm

12:30-1:30pm 1:30-3pm

Draper. Rec. 10/25/78.

Live from Harvard.

3-9pm

6.041-6.431 REVIEW SESSIONS— Prof. Al Drake, Dept. of Electrical Engineering, MIT. Tape D10 six times, on the hour.

Friday, May 11 Channel 8: 12-12:45pm

PHYSICAL CHEMISTRY IN FUTURE ENERGY TECHNOLOGY—Dr. John M. Deutch, Director, Energy Research, US Dept. of Energy. Rec.

Student Association Spring Lecture Series on Thursday. May 10, at 4pm in the Bush Room (10-105). Dr. Blake Dr. Blake will speak on "Manpower Needs

for the 80's As They Relate to Blacks." Serving as respondent will be Dr. Lester C. Thurow, professor of economics and management at MIT.

Clark College in Atlanta, Ga., will

will be the

fourth and

final speaker

in MIT's Mino-

rity Graduate

Dr. Blake has been president of

Jewish Religious Services\*—Traditional Services, daily 8am, Rm 7-102. Friday night, Sundown, Kosher Kitchen, 50-005. Saturday, 9am, Bush Room 10-105. Mincha and Seudah Shlishit, info: 3-2982. Conservative Services, Saturdays, 10am, 312 Memorial Drive. Reform Services, call Hillel Office, 3-2982.

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, re-freshments. Led by Miriam R. Eccles, founder and director, Alpha and Omega Missionary

United Christian Fellowship\*—Weekly meetings, Fridays, 7:30pm, Spofford Room (1-236).
Prayer Meetings, 5:15pm, Mondays, Tuesdays and Thursdays; 8:15am Wednesdays, W20-441.

#### Preprofessional

Chinatown Health Clinic Project Ahead\*\* Eight-week program to provide students with exposure to working conditions in area of their career interest, and understanding health issues relative to underserved communities. 30 hours/week field work divided into health related field placements and community activities on Lower East Side of Manhattan. Sti-pends up to \$90/week. Application deadline: May 25. Info: Preprofessional Office, 10-186,

#### **New UROP Listings**

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

Boston Urban Gardening

The Action for Boston Community Development Urban Gardening Program has opportunity for a student of sociology, economics or political science, interested in working in the following areas: 1) Research into the possibility of obtaining a facility to be used as a root celler for the storage of Massachusetts produce. 2) Work in the low-income neighborhoods of Boston with community based organizations and individuals to organize community vegetable gardens by organizing gardening groups, securing permission to use the land and developing work plans and distributing materials.

RESTORING THE ENVIRONMENT 12:45-1:30pm RESTORING THE ENVIRONMENT FOR RESEARCH AND DEVELOPMENT—Dr. Edward Kane, Pres. E.I. Dupont de Nemours and Co. Rec. 11/17/78. GREATER BOSTON SONGFEST —by MITV. Rec. 1978.

1:30-2:30pm 2:30-3:30pm

VISIONS AND VIEWPOINTS: THIRD VISIONS AND VIEWPOINTS: THIRD WORLD WOMEN, CHILDREN, AND FAMILIES—Live from Harvard. ELECTROPHYSIOLOGY AND HEMODYNAMICS OF THE FROG. HEART—Rec. 4/75.

Monday, May 14 Channel 8:

TECHNOLOGY AND WORK: WHO DECIDES?—Frank Runnels and Frank Rosen, Pres. and V. Pres. of the All-Unions Committee to Shorten the Work Week. Rec.

TECHNOLOGY, LABOR, AND POLITICS—Arthur Scargill, Pres.

4:30-5:30pm

TURE ON IMMUNE RECOGNI TION-Dr. Allen Rosenthal, Merck stitute for Therapeutic Research

5.041-6.431 REVIEW SESSIONS

Prof. Al Drake, Dept. of Electrical Engineering, MIT. Tapes one hour each, alternating: D11 D12 D11 D12 D11 D12

12:15-12:45pm

12:45-1:45pm

TOTS IN TINSEL TOWN—Act 2, Harvard Hasty Pudding Theater, 1976. From Harvard.
POLITICS, TELEVISION, AND THE NEWS—Edwin Diamond, Dept. of Political Science, MIT, guest Terry Ann Knopf, Miami Herald Press Office and writer, Boston Globe. Rec. 10/19/78.

8.02 REVIEW SESSION

4-12mid

CARBOHYDRATES—Dr. Roger W. Jeanloz. Mass. General Hospital Research Tutorials. Live from Har-

Blake To Close Minority Series Dr. Elias Blake, Jr., president of Clark College since 1977. From 1969 to 1977 he was president of the Institute for Services to Education, Inc., a nonprofit corporation involved in research and program development work related to greater access for blacks in higher education.

The lecture series, featuring four black college presidents, has focused on the topic, "The Full Participation of Blacks in the Marketplace-A Challenge for Historically Black Institutions and Predominantly White Institutions.

John B. Turner, associate dean for program development in the Office of the Graduate School, and Dr. Clarence G. Williams, special assistant to the president and chancellor for minority affairs, are cosponsors of the lecture series.

Early Language Development
Opportunity for a student to take part in a project involving the collecting and analyzing of data on early language development. Some knowledge of linguistics or cognitive development is useful but not essential. Student must be a native English speaker with some experience working with young children Contact Prof. Susan Carey, x3-5768.

Research Lab of Electronics
Research opportunities exist for this summer in the areas of cognition, biomediical, digital signal, pattern recognition, computer hardware and software engineering, as well as opto-photographic sciences. Experience preferred in hardware debugging-building or in firmware/software programming. Languages utilized are Unix, Fortran, C-programming language and various microprocessing assembly-machine types, e.g. Intel, AMD, Motorola, National, LSI/11, etc. Call James Cyr at x3-7311 or x3-8135 for details.

**Dancing For The Deaf** 

Ame-Joe Associates, a dance school in Malden, is seeking to develop an efficient system for teaching dancing to wholly and/or partly deaf children, using precisely timed color-light display in place of music. A student is sought to develop three basic elements of such a system: 1) a variable-speed rhythmic light display with 16 selectable color-patterns; 2) A system of manually switched tones to superimpose rhythm information on existing music; 3) A means of interfacing the above

# **Echoes**

50 Years Ago

Mary Elizabeth Betts '30 was elected President of the Liberal

Miss Betts was also elected President of Cleofan, a society of Technology coeds not in the Architectural Dept. Other officers elected by members of Cleofan include Grace Sarrel '30, vice president; Katharine A. Sarabia '32, secretary; and Mary K. Cusick '31, treasurer.

#### 40 Years Ago

The annual moonlight sail of the 5:15 Club will take place on board the largest cruise ship in the area, the "City of Hull." The ship has facilities for dancing on three decks and a sixty-foot bar on one

#### 25 Years Ago

The Damon Runyon Memorial Fund for Cancer Research awarded the Institute a \$20,000 grant for research by Dr. John G. Trump, Professor of Electrical Engineering. His project is entitled "Some Physical and Clinical Studies with High Energy Elec-

Prepared by Marcia Conroy. MIT Historical Collections, x4444.

> TECH TALK Volume 23, Number 34 May 9, 1979

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11-12 meeting.

Others scheduled to take part in

# Students Present

NASA's Management Council.

Accompanying the students were Professor Jack L. Kerrebrock, head of the department; Professor Rene H. Miller, former department head and founder of the Space Systems Laboratory,

Professor Mar said the oppor-

"We have between 30 and 40 stu-

related research. "NASA is also interested befocusing four to five years in the future. Our research work is geared to this, involving several Space Shuttle, studies of human nance of geometric tolerances of study of space manufacturing fa-

Students of the MIT Dance Work-

The free, public performance

Page 2, Tech Talk, May 9, 1979

damaged nuclear plant.

Professor George Rathjens of

5-6:30pm, Mezzanine Lounge, Student Center.

MIT Outing Club\*\*-meets every Monday and

and sales at local stores. MIT Rugby Football Club\*\*-beginners wel-

MIT Table Tennis Club\*—Sundays, 2-4pm,

MIT Tae Kwan-Do Club\*-Korean martial art.

The Chapel is open for private meditation 7am-

RHETORIC AND JOURNALSM

FIRST IMPRESSIONS OF THE

THE PROBLEM—an original play by Albert Gurney, Dept. of Humanities, MIT, Rec. 1/75.

NOON H.I.T.S.—Student produced variety show. Live from Harvard.

AIRCRAFT AND SPACECRAFT

NAVIGATION—Charles Stark

Drapper Rec. 10/35/38

Draper. Rec. 10/25/78.
PETE SMITH—by Basement Video.
THE USE OF GENE FUSION TO
STUDY PROTEIN SECRETION IN E.
COLI—Dr. Jonathan Beckwith,
Dept. of Bacteriology and Immunology, Harvard Medical School.

POLITICS—Arthur Scargill, Pres. Yorkshire Miners National Union of Mine Workers. Rec. 1/16/79. MIT SYMPHONY ORCHESTRA— by Video Club. Rec. 1977. INFLUENCE OF PROTEIN STRUC.

Channel 10:

Tuesday, May 15

CAMBRIDGE...USA-"A Harvard CAMBRIDGE... USA—"A Harvard Museum and the Cambridge Public Schools"—Gaby Pundon, Museum of Comparative Zoology; Kaki Aldrich, Public Education Specialist, Harvard Museums; Bar-bara Powell, Cambridge Parent. Rec. 3/22/79 WLVI-TV Ch. 56. From Harvard TOTS IN TINSEL TOWN-Act 2,

Channel 12:

STRUCTURE DETERMINATION OF

-'Hello Central' Opens at Historical Collections — Advisory Committee to Aid

After considerable refurbishing and reorganization, the MIT Historical Collections (265 Mass. Ave., 2nd floor) is in the process of opening several new exhibitions for public perusal.



Of particular interest and just recently installed is "Hello Central," a display that traces the development of the telephone as well as the relationship between

Alexander Graham Bell and

Bell attended a lecture in acoustics at MIT on the day he arrived in Boston in April, 1871. Later he worked with MIT Professors Edward Pickering and Charles R. Cross in a laboratory, experimenting with the latest findings in acoustical research.

In 1876, Bell gave the first working demonstration of his telephone at MIT. In 1916, at the dedication of MIT's Cambridge campus, Bell made the first multi-station, cross-country hook-up, reaching 34 MIT alumni clubs.

The Historical Collections



Entrance to the MIT Historical Collections—definitely a must for Employees Open House, or anytime. —Photo by Calvin Campbell

exhibit includes phones, graphics and other related memorabilia, bringing to life the magic of an instrument that a world eager to keep in touch embraced.

Other new installations on display are the "X-Ray Astronomy Sounding Rocket" and 'L'ère de Despradelle," the latter featuring architectural renderings from the Beaux Art period of 1893-1912 as influenced by Professor Constant Desiré Despresdelle.

Open Monday-Friday, 9am-5pm, the Historical Collections continues to house and display rare instruments (c. 1800-1900), photographs, globes and portrait busts. The exhibits will also be open to the public on Saturday, May 12, as part of the MIT Employees Open House.

# Work Begins In Killian Court

(Continued from page 1)

a lot going on behind the scenes.

As has been the custom for many years, Rockwell Cage is also being prepared for Graduation Exercises, in cases of inclement weather. Activities there, however, are considerably scaled down this year.

The usual central stage, with its back drape and huge American flag will be in place, but chairs for the Corporation and faculty will be on the floor. And there will be the usual 4,100 audience seats for the graduates and their guests.

But something more is new this year—the "hidden" third Commencement arrangements that rest almost entirely with the onthe-spot people who year after year have guaranteed the flawless execution of the chief ritual of the academic year.

The "hidden" Commencement arrangements have to do with the 6-7am decision as to whether or not the weather welcomes the new outdoor event. Though moving Commencement back into the Cage seems a simple decision, a lot of last-minute work would be involved. For example, the Institute seal and diplomas must be moved as well as floral decorations and medical facilities.

Most hidden of all has been the work of the subcommittee of the Commencement Committee which began planning for the outdoor ceremony more than a year ago. The committee is chaired by Professor Gerald L. Wilson, head of the Department of Electrical Engineering and Computer Science.

Mary L. Morrissey, director of the Information Center and executive secretary of the Commencement Committee has provided support and coordination in planning the various activities. Henry J. Leonard, Physical Plant superintendent of support systems, is responsible for installation of all physical facilities necessary with assistance from Conor Moran and Frank Winsor, and Ted Doan.

# Adams Memorial Service Planned

A memorial service for Professor Frederick J. Adams will be held Friday, May 11, at 2pm in the MIT Chapel.

Professor Adams, who died March 25 in Toledo, Ohio, was the first head of MIT's Department of City and Regional Planning (now Urban Studies and Planning).

Memorial contributions in lieu of flowers may be made to the Frederick J. Adams Fellowship Funds of the School of Architecture and Planning. Rockwell Cage has become too small for Commencement as more and more students graduate each year, producing a bigger and bigger audience of proud families, according to Professor Wilson. By moving to commodious Killian Court, each graduating student can have three tickets—and sometimes four. The Commencement

#### Senior Week Events Listed

Last chance for a last fling is fast approaching for MIT seniors.

One event has already been planned for the last day of classes, and three more for Senior Week. In the classes of '79 newsletter, class officers have asked graduating seniors for suggestions for other activities which will include families and friends.

Already on the calendar are "The Freedom Ride"—an evening cruise in Boston Harbor aboard the M/V Freedom Friday, May 18, from 8pm-12:30am. Moonlight and sea breezes on the top deck, disco on the second, dancing to the music of Clockwork on the third, with hors d'oeuvres and a cash bar add up to a night to remember.

Saturday, June 2, from 3-6pm, Kresge Oval will be given over to a traditional New England Clam Bake. All the usuals. Tickets at \$9 will be sold in Lobby 10 through May 18.

Sunday, June 3, at 2pm, "Doc" Edgerton's Magic Show will be staged in Rm 10-250. It's free, first come, first served, and the doors will open at 1:30. Sunday evening, a semi-formal dance with rock and swing music will be held at the Student Center from 8pm to midnight. Tickets are \$4 per person.

The week, of course, culminates in Commencement. If the weather proves fine, it will be the first outdoor commencement in more than 50 years. Each senior on the Degree List will receive three tickets, and can apply for a fourth at the Information Center, where all tickets must be picked up between May 14 and 25. If it rains, the graduation exercises will be held in Rockwell Cage, and only two tickets will be good for the Cage.

Tech Talk will not accept classified ads for commencement tickets. Committee also hopes to accommodate more members of the Institute community who will be able to observe "their graduate" from the periphery of the back of Killian Court. Members of the community are also invited to observe the procession which will march south on Massachusetts Avenue, then east on Memorial Drive to the entrance to Killian Court.

#### 4 Rune On Sale Now at Discount

RUNE, the MIT Journal of Arts and Letters, has just been published in its fourth edition by students and employees of the Institute.

Titled 4 RUNE, the booklet will be on sale for \$1.00 in the lobby of Building 10 through May 11.

Described as being "less conservative than 2 RUNE or 3 RUNE," by editor Leslie Chow, this latest edition is an eclectic collection of visual and literary offerings that range from serious concepts and writings to light-hearted humor.

According to Ms. Chow, a senior in civil engineering from Chappaqua, NY, "4 RUNE does not try to be sensational, but fresh. .. less traditional...with more variety and depth."

Heading up that effort is an interview with playwright Jonathan Lipsky, author of "Master of Ecstacy." The interview was conducted by Niti Salloway, manager of television services at MIT, and Dr. E.G. Mitropolous, a Ford Foundation Fellow in the Department of Architecture. An excerpt from the play is also included.

Dr. Mitropolous designed the cover for this publication, a work that doubles as an example of "Mail Art," a form of graphic art that involves the owner in communication exchange through the mail.

# Pratt to Assume Position at Tufts

Professor George W. Pratt, Jr., of the Department of Electrical Engineering and Computer Science, has been appointed an adjunct professor of equine medicine at the Tufts University School of Veterinary Medicine. The school will open in October.

Professor Pratt, who will continue to be a member of the MIT faculty, has developed a device consisting of supersensitive force plates that has proved successful in predicting lameness in horses that veterinarians and trainers presumed to be fit.

# Advisory Committee to Aid Search for OME Director

Associate Provost Hartley Rogers, Jr., has announced the formation of an eight-member advisory committee to assist in a national search for a new Director of the Office of Minority Education (OME).

Professor Rogers said the committee will be chaired by Arthur C. Smith, professor of electrical engineering, who has served as acting director of OME since February. Professor Rogers said Professor Smith would continue as acting director until a new director is selected.

Professor Wesley L. Harris, who had served as director of the OME since the office was established in 1975, resigned as director in February when he began a one-year leave of absence from his faculty position as a professor in the departments of ocean engineering and of aeronautics and astronautics to join the National Aeronautics and Space Administration.

The advisory committee includes three students as well as faculty and staff. Serving with Professor Smith are:

Ronald P. Adolph, a sophomore in civil engineering; Dera A. Gray, a sophomore in computer science and electrical engineering; Mary O. Hope, assistant dean for student affairs; Dr. Arthur P. Mattuck, the Class of 1922 Professor of Mathematics; David Venecia, Jr., a sophomore in chemical engineering; Dr. Clarence G. Williams, special assistant to the president and chancellor for minority affairs; and Dr. James E. Young, professor of physics.

Professor Rogers said that the provost's office "is committed to continuing OME as a strong and successful student-support effort.' He said that the characteristics sought in a new director would include intelligent understanding of the nature and goals of the undergraduate educational program, sympathetic understanding of minority experience and minority needs at an institution like MIT: strong personal commitment to the purpose of OME; qualifications and experience that will provide a high level of credibility with MIT faculty, minority students, staff and administration; and personal qualities that will help the individual work effectively with the same groups.

The establishment of the OME in 1975 was the result of several years of research and planning. It has helped to identify and assess, as far as possible, factors important in the learning process of minority students at MIT, and has been concerned primarily with academic aspects of minority experience at

# Millon Assumes New Post At National Gallery Center

(Continued from page 1)

and foreign scholars at very advanced levels to doctoral candidates pursuing independent and Gallery-related research and writing projects.

The research facilities, in addition to the gallery's art collection, will include a major art reference library, extensive photographic archives, a computerized bibliography, offices and carrels, and seminar rooms.

Speaking of the scope of the center, Mr. Brown said, "The intent of the center is to provide optimum conditions for scholarly research and have as its goal the establishment of a singularly rich environment for art historical related subjects in the United States."

Professor Millon said, "An important part of the center's goal will be the extension of its interest to a wider professional public in the Washington area through a program of public lectures and small colloquia."

Professor Millon, a distinguished scholar and architectural historian, first taught at MIT in 1955-56 as a part-time instructor. He was appointed assistant professor of the history of architecture in 1960, associate professor in 1964 and professor in 1970. He has also taught at Harvard University, Brown University, Pennsylvania State University and Oberlin College.

He was a member of the Institute

for Advanced Study at Princeton this year, and was director of the American Academy in Rome in 1974-75.

Professor Millon received the BA in English in 1947, the BS in physics in 1949 and the B. Arch in the history of art in 1954, all from Tulane University. He then received the AM in history of art in 1954, the M. Arch in architecture in 1955 and the PhD in the history of art in 1964, all from Harvard University.

His books include Baroque and Rococo Architecture, and the widely used textbook Key Monuments in the History of Architecture. He has published with Craig Hugh Smyth three portions of a long-term study of Michelangelo and St. Peter's.

He is also the author and editor of numerous publications and articles on art and architecture.

His many memberships include the Accademia delle Scienze, Turin, Italy, the Societa Subalpina di Storia Patria, also in Turin, and the American Academy of Arts and Sciences.

Professor Millon has also written a series of articles on architecture for the Boston Globe and organized, with a team of architects, an exhibition for the Museum of Moden Art, "The New City: Architecture and Urban Renewal, 1967."

He was born in Altoona, Pennsylvania in 1927, is married to the former Judith Rice, and has four children.

# Ephraim Katzir To Present Compton Lecture On Friday

(Continued from page 1)

fellow and guest professor at Harvard University, a visiting professor at the Rockefeller University in New York City and a fellow at the University of California at Los Angeles.

He has contributed papers and articles, including many on protein and polyamino acids, to more than 100 scientific publications and professional journals. He also has served as a member of the editorial board on a number of publications.

He is a member of the National Academy of Sciences of the United States and a foreign honorary member of the American Academy of Arts and Sciences. His prizes include the Tchernikhovski Prize (for exemplary translation of scientific literature into Hebrew), the Weizmann Prize (from the municipality of Tel Aviv), the Israel Prize in Natural Sciences and the Rothschild Prize in Natural Sciences.

Professor Katzir's late brother, Dr. Aharon Katzir, was one of the early associates of the Neurosciences Research Program at MIT when it was founded in 1962, and remained an associate member until his death. He was also among the founders of the International Union of Biophysics. Dr. Aharon Katzir, who was known by the name Katchalsky in the West, was killed in a terrorist attack at the Tel Aviv airport in June, 1972.

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May 9 through May 20

## **Events of Special Interest**

Annual Awards Convocation\* — Fernando Cruz-Villalba, current president, Graduate Student Counsel. Annual presentation of awards to members of the community for outstanding contributions in service, teaching and athletics. Fri, May 11, 11am, Little Theatre, Kresge Audtorium.

Employees Open House\* — Some 50 exhibits, events and activities have been planned for the public to see what goes on at MIT. Campus-wide demonstrations and displays. Sat. May 12, 10am-5pm.

Day Trip to Mystic Seaport\* — Sponsored by the MIT Cambridge Chapter AARP. Visit Mystic Seaport Museum, including luncheon. Sat, May 19, 9am, buses will leave from West Garage. Admission: \$18. Reservations required.

#### Seminars & Lectures

#### Wednesday May 9

Hybridomas — A New Vista in Research\* — Malcolm L. Gefter, PhD, professor of biology. The Clinical Research Center Seminar, 9am, Rm E18-408

Capital Accumulation and Immigration in the Periphery: The Case of Venezuela\* — Saskia Sassen-Koob, sociology, Queens College, Migration and Development Study Group Seminar, Noon-2pm, CIS Seminar Room I, Rm E38.615

Is It Catching?\* — John M. Moses, MD, an internist and former Chief of Infectious Diseases, Mt. Auburn Hospital. Medical Department Spring Lecture Series, Noon-1:15pm, Rm 10-105. Space is limited call x3-1316 if you plan to attend.

Wind-driven Transient Circulation in the Middle Atlantic Bight: Some Modeling Results\* — Dr. Dale Haidvogel, WHOI. Oceanography Sack Lunch Seminar, 12:10pm, Rm 54-915. Coffee provided.

Polymer Crystallization and Properties of Crystalline Polymers\* — Prof Leo Madelkern, University of Florida. Polymer Seminar Series, last of a three part series, 2pm, Rm 3-133.

Holography — The Second Decade\* — Dr. Stephen Benton, Polaroid Corporation. Electrical Engineering and Computer Science Optics Seminar, 3pm, Rm 36-428.

Nuclear Engineering Doctoral Engineering Seminars\* — Ron Ballinger, Corrosion Fatigue of Nickel Base Alloys for Nuclear Steam Generator Applications, 3pm. Raul Racana, Structural Analysis of Fusion Reactor First Walls, 3:30pm. Dan Litai, Choice and Analysis of Design Basis Accidents, 4pm. Rm NW12-222.

Theory of the Intergalactic Medium\* — Dr. Richard D. Sherman, Jet Propulsion Laboratory, California Institute of Technology, Pasadena, California. Special Plasma Theory Seminar, 3:30-4:30pm, Rm 36-216.

The Control of Acetylcholine Synthesis\* — Dr. Alan M. Goldberg, Johns Hopkins University. Seminar at 4pm, Rm 66-144.

Raymond Pearl: From Eugenics to Population Control\* — Garland Allen, Washington University. Program in Science, Technology and Society Seminar, 4pm, Rm 20D-205. Coffee served 3:45pm.

Nuclear Flashes on Neutron Stars\* — Prof Paul Joss, Undergraduate Physics Colloquium, 4:15pm, Rm 4-339. Social hour follows.

#### Thursday, May 10

The US-Japanese Connection\* — Mr Fujii, Counsellor, Japanese Embassy, Washington. Center for International Studies Seminar, Noon-2pm, CIS Seminar Room I, Rm E38-615.

High-Speed Surface Roughness Measurement from Infrared Laser Scattering\* — Jonathan M. Rourke, research assistant, mechanical engineering. Laboratory for Manufacturing and Productivity, Mechanical Engineering, 2-3pm, Rm 37-252.

Engineering the Energy Transition\* — Dr. J. Michael Gallagher, engineer with Bechtel National, Inc., San Francisco California. Seminar at 3:30-5pm, Rm 1-236.

Manpower Needs for the 80's as They Relate to Blacks\* — Dr. Elias Blake, President, Clark College, Atlanta, GA. Minority Graduate Student Spring Lecture Series, 4pm, Rm 10-105.

Maximal Entropy, the Cosmic Background Radiation, and Its Angular Momentum\* — Dr. Irving E. Segal, mathematics. Maxium Entropy Seminar sponsored by the Center for Advanced Engineering Study, Department of Mathematics and Mechanical Engineering, 4-5pm, Rm 9-451. Coffee at 3:45pm.

Quantitative Analysis of Complex Mixtures with a Gas Chromatograph-Mass Spectrometer-Computer System\* — Prof Charles Sweeley, Chemistry, Michigan State University, Visiting Scientist at MIT. Analytical Chemistry Seminar, 4pm, Rm 8-105.

Real Time ECG Waveform Analysis with a Portable Microcomputer\* — W.H. Olson, associate professor, electrical engineering and computer science, and Harvard-MIT Health Science and Technology Division. Committee on Biomedical Engineering Seminar, 4-5:30pm, Rm 35-225. Refreshments served.

Stellar Evolution and Supernova Collapse\* — Dr. Hans A. Bethe, Nobel Laureate and professor of physics, emeritus, Cornell University. Physics Colloquium, 4pm, Rm 26-100. Tea served 3:30pm, Rm 26-110.

The West and the Rest of Us: A Visit to the World's Poor\* — Michael Harrington, chairman, Democratic Socialist Organizing Committee. Sponsored by the Faculty Steering Committee, 4:30-6:30pm, Rm 4-270.

Introduction to Meditation\* — M. O'Connell, student of Sri Chinmoy, Sponsored by the Undergraduate Student Association, 7pm, Rm 4-149. Refreshments served following seminar.

#### Friday, May 11

Selective Infrared Photodissociation of Weakly Bound Molecules\* — W. Ron Gentry, University of Minnesota. Seminar on Modern Optics and Spectroscopy, 11am-Noon, Rm 9-150. Coffee served at 10:30am.

Chemical Engineering Seminars\* — Frank Smith III, Electrostatic Effects on Restricted Diffusion of Macromolecules, 2pm. Richard Quann, Ash Vaporization During Coal Combustion, 3pm, Rm 66-110.

Non-Linear Mode Below the Electron Plasma Frequency\* — Dr. V.B. Krapchev, MIT. Plasma Fusion Seminar, 3pm, Rm NW16-212. Refreshments served.

On the Supervision of Robots\* — Prof Thomas Sheridan, mechanical engineering. Mechanical Engineering Seminar, 3pm, Rm 3-133.

Block Copolymers: Overview and Theory\* — Dr. Eugene Helfand, Bell Laboratories. Center for Materials Science and Engineering Colloquium, 4pm, Rm 9-150. Coffee at 3:30pm.

Descartes and Spinoza; Two Motivations for Rationalism\* — Prof Harry Frankfurt, Yale University. Linguistics and Philosophy third in a series of lectures on Human Knowledge, sponsored in part by a grant from the Franklin J. Matchette Foundation. Seminar at 4pm, Rm 4-231.

A Scientist as President of a State\* — Prof Ephraim Katzir, Former President of the State of Israel and Professor, Weizmann Institute, 4pm, Rm 54.100

Aspects of Functional Representation in the Human Brain\* — Prof Brenda Milner, neurology and neurosurgery, Montreal Neurological Institute. Psychology Colloquium, 4:30pm, Rm E10-013. Coffee at 4:15pm.

Newton-Mairmonides Connection: Judaic Influences on Newton's Thought\* — Prof Irving Segal, mathematics. Oneg Shabbat Lecture, 9pm, Talbot Lounge, East Campus. Refreshments served.

#### Monday, May 14

Macho, Defenselessness, and Nuclear Arms Control\* — Col. Bob Clewell, CIS visiting scholar, former advisor to SALT delegation. Center for International Studies Seminar, Noon-2pm, Rm E38-762.

Symposium in Honor of 100th Birthday of Albert Einstein\* — Prof P. Morrison, MIT, Einstein's Physics; Prof B. Feld, MIT, Einstein and the Quest for Peace; Prof I. Shapiro, MIT, Experimental Challenges of Einstein's General Theory of Realitivity; Prof J. Bernstein, Stevens Institute of Technology, Albert Einstein and the Philosophy of Science. Sponsored by the Department of Physics, 1:30pm, Rm 26-100.

A Method for Evaluating the Potential of Geothermal Energy in Industrial Process Heat Applications\* — Michael Packer, research assistant, Mechanical Engineering Seminar, 3pm, Rm 37-252.

The Role of Mass Media in Nutrition Education\* — Richard Manoff, Manoff International. Seminar at 4pm, Rm 16-310.

In Vitro Shearing Stress Measurements in the Common Carotid Bifurcation\* — Haywood Zwerling, research assistant. Fluid Mechanics Seminar, 4-5pm, Rm 5-234. Coffee at 3:55pm.

Wind Mixing\* — Dr. Siegfried Bloss, civil engineering. Water Resources and Environmental Engineering Seminar, 4-5pm, Rm 48-316. Coffee at 3:45pm, Rm 48-410.

Wronskians\* — Dr. Joseph Kung, mathematics. Applied Mathematics Colloquium, 4pm, Rm 2-338. Refreshment served at 3:30pm, Rm 2-349.

#### Tuesday, May 15

Is the Israeli-Arab Conflict Getting to Be Obsolete?\* — Arie L. Eliav, Harvard Center of International Affairs Research Associate. Center for International Studies Seminar, Noon-2pm, Rm E38-762.

Biaxial Extension of Plane Woven Fabrics\* — Dr. N.C. Huang, mechanical engineering, visiting associate professor from University of Notre Dame. Applied Mechanics Seminar, 3pm, Rm 3-270. Coffee after seminar. Rm 1-114.

Gas Phase Metal Ion Chemistry: Reactions and Thermochemistry with Organic Molecules\* — Prof Ralph Staley, chemistry. Seminar in Physical Chemistry, 4pm, Rm 4-370. Coffee at 3:45pm, Rm 6-321.

Model Building and Model Validation\* — Prof Henry Braun, Princeton University. Statistics Seminar, 4pm, Rm 2-338. Refreshments 3:30pm, Rm 2-349.

Stochastic Modelling of Ocean Storms\* — Shyam Sunder, civil engineering. Seminar series on Research in Offshore Engineering. Sponsored by the Departments of Civil and Ocean Engineering, 4-5pm, Rm 48-316.

Early Results from Einstein, the Orbiting X-Ray Observatory\* — Prof. Riccardo Giacconi, Center for Astrophysics, Harvard University. Astrophysics Colloquium, 4:15pm, Rm 37-252. Coffee 3:45pm.

Chicken Genes That Code for Chicken Viruses\* — Dr. Harriet Robinson, Worcester Research Foundation, Shrewsbury, Mass. Biology Colloquium, 4:30pm, Rm 6-120. Coffee at 4pm, vestibule, 5th fl, Bldg 56.

#### Wednesday, May 16

Essential Fatty Acid Deficiencies in Man and Animals During Total Parental Nutrition\* — Robert L. Wixom, PhD, visiting professor of biochemistry. Clinical Research Center Seminar, 9am, Rm E18-408.

Air Traffic Control: National and International Service\* — William O. Codner, British Embassy, Civil Air Attache. Aeronautics and Astronautics General Seminar, 2pm, Rm 37-252.

Nuclear Engineering Doctoral Engineering Seminars\* — Song-Feng Wang, Mixed Convection in Sodium-Cooled Reactors with Transients, 3pm. John Bernard, Computer Control of Pressurized Water Reactors, 3:30pm. Dave Boyle, Transient Effects in Turbulence Modeling, 4pm, Rm NW12-222.

Anatomical Evidence for Local Interactions in Monoamine Nuclei: Dendrite Bundles, Neuronaltanycyte Relationships and Neural-Vascular Relationships\* — Dr. David L. Felten, Indiana University, School of Medicine. Seminar at 4pm, Rm 66-144.

#### Thursday, May 17

Fifty-One Years of Quantum Electrodynamics\* — Prof Victor F. Weisskopf, MIT. Physics Colloquium, 4pm, Rm 26-100. Tea served at 3:30pm, Rm 26-110.

Visual-vestibular Acoustic-vestibular Interaction During Linear Acceleration\* — Prof R. Schmid, Institute Di Elettronica, Pavia, Italy. Committee on Biomedical Engineering Seminar, 4-5:30pm, Rm 35-225.Refreshments served.

Differential Picture Coding Using Pseudorandom Noise\* — L.L. Picard, C.I.P.G. Group Meeting, 5pm, R.L.E. Conference Rm 36-428.

#### Friday, May 18

Chemical Engineering Seminars\* — David Ekpenyong, Frontier Orbital Treatment of Liquid-Phase Reactions of Coal Model Compounds, 2pm. Steven Dinh, The Rheology of BMC Processing, 3pm, Rm 66-110.

The Control of Flexible Space Structures\* — Prof Arthur E. Bryson, aeronautics and astronautics, Stanford University. Mechanical Engineering Seminar, 3pm, Rm 3-133.

Discovery of an Information Processing Mechanism in Extrasensory Perception Functioning\* — Prof Charles Tart, University of California at Davis and Stanford Research Institute. Psychology Colloquium, 4:30pm, Rm E10-013. Coffee at 4:15pm.

#### Community Meetings

Wives' Group\* — Wed, May 9, Robert Manners, Chairman of the Anthropology Department at Brandeis University, will give a presentation on "American Indians", 3-5pm, West Lounge, Student Center. Babysitting provided.

Annual White Elephant Sale\* — Sponsored by the MIT members of the Cambridge Business and Professional Women's Club to benefit the Olive Libitz Scholarship Fund. Thurs, May 10, 9am-2:30pm, Rm 10-105. Donations may be given to any of the following: Julia Lucas, Rm 14E-210; Norma Loomis, Rm 12-134; Patricia Moulton, Rm E19-702; Alice Seelinger Rm 7. 133; Marguerite Pinkston, Rm E19-215, or Elenore Kehoe, Rm 5-119.

Spring Craft Sale\* — Sponsored by the Technology Wives Organization May 10 & 11, 10am-3pm, Lobby Building 10.

Lunch to Go\* — Sponsored by the Technology Children's Center. Year end fund raising event, prepared by parents of children in the program. Fri, May 11, Rm 10-105, 11:30-2pm.

Health Plan Annual Open Enrollment\*\* — Wed, May 16, Noon, Rm 10-105. From 11am-3:30pm, a representative will be available to answer questions and appell new members. Information cell v3.1322

tions and enroll new members. Information call x3-1322.

Wives' Group\* — Wed, May 16, Barbara Reinhold of Brookline High eative School, will present "A Teacher's View of Teenagers", 3-5pm, West Lounge, 9a

Seniors!\*\* — Fri, May 18, 8pm-12:30am, "The Freedom Ride", Boston Harbor Cruise, live band Clockwork, live DJ, hot and cold hors d'oeuvres, cash bar. Tickets: \$6/person and limited! Sat, June 2, 3-6pm, Kresge Oval, "Clam Bake", lobster, steamed clams, Bar-B-Q chicken, corn-on-the-cob, watermelon, rolls, beer, coke. Ticket: \$9/person. Sun, June 3, 8pm-Midnight, "The Last Tango", semi-formal, two live bands, one playing swing and the other playing rock, hors d'oeuvres and cash bar. Tickets: \$4/person. All tickets on sale now, Lobby 10 or call Gregg x5-9481 or Marcia

Open Meeting\* — New England Gilbert and Sullivan Society. Sponsored by the Community Players. Sun, May 20, 3pm, Mezzanine Lounge, Student Center. Refreshments served. Information: x3-5716.

Progress Reports\*\* — Dotty Bowe, Betty Campbell, and Sylvia Darrow, WAG Representatives from the Forum, will discuss the Women's Advisory Group's activities for the year; Joy Thompson, Women's Forum Steering Committee, will discuss plans for the fall Stress Workshop. Sponsored by the Women's Forum, Mon, May 21, Noon-1pm, Rm 10-105.

Technology Wives Organization Weekly Exercise Class\*\* — An hour of serious exercise led by professional Wambui Demps. Every Monday through May 14, 8pm, Exercise Room, 2nd fl, DuPont Gymnasium. Information: Call Wambui Demps 427-5008.

## Lobby 7 Events

Student Center. Babysitting provided.

Peter Spencer Concert\* — Sponsored by the Lobby 7. Fri, May 11, Noon-

#### Social Events

Emeriti Faculty Luncheon\*\*\* — Thurs, May 10, Noon, Emma Rogers Room.

Honorary Matrons of MIT\*\*\* — The spring luncheon meeting will be held Thurs, May 10, McCormick Hall, Amherst Street. Sherry at Noon and luncheon at 1pm. Acceptance cards will be mailed to you.

Last Fling Disco\*\* — Sponsored by the Technology Children's Center. (TCC) Year-end fund raising event. Sat, May 12, 9pm-1am, Walker Memorial. Tickets: on sale now, TCC in Eastgate and Westgate and the Child Care Office, Rm 4-114, 9-5 daily, and in the Maclaurin Lobby, Noon-1:30pm.

Eta Kappa Nu Initiation and Banquet\*\* — Prof Robert L. Kyhl, will be the Honor Initiate and Prof Ed Fredkin will be the featured speaker at the banquet, open initiation to be followed by a banquet at Endicott House, semi-formal. Sun, May 13, 3pm initation Marlar Faculty Lounge, Rm 37-252; 6:30pm banquet, Endicott House, Dedham, Mass. Admission: \$7.50. Tickets: Charles Freeman 247-8691 or Louis A. Nagode x3-7764 or x5-9126 Dorm.

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

La Nuit Americaine (Day for Night)\*\* — Sponsored by the Department of Humanities. In French w/English subtitles. Wed, May 9, 7pm, Rm 66-110 Free. Call Dora for confirmation x3-4441.

La Nuit Americaine (Day for Night)\*\* — Sponsored by the Department of Humanities. Directed by Truffaut. In French w/English subtitles. Thurs. May 10,2pm, Rm 26-168. Free. Call Dora for confirmation x3-4441.

Open City\*\* — Sponsored by the Department of Humanities, Directed by Rosselini. In Italian w/English subtitles. Thurs, May 10, 7pm, Rm 14N-0615. Free, Call Dora for confirmation x3-4441.

The Return of the Tall Blond Man with One Black Shoe\*\* — LSC Movie Fri, May 11, 7 & 9:30pm, Rm 26-100. Admission: 75¢ w/MIT or Wellesley ID

Pygmalion\*\* — LSC Classic Series. Fri, May 11, 7:30pm, Rm 10-250. Ad mission: 75¢ w/MIT or Wellesley ID.

The Groove Tube\*\* — LSC Movie. Sat, May 12, 7 & 9:30pm, Rm 26-100 Admission: 75¢ w/MIT or Wellesley ID.

Mission Hill and the Miracle of Boston\*\* — Sponsored by the Depart ment of Humanities. A new documentary on the transformation of Boston neighborhoods. Sat, May 12, 7:30 & 9:30pm, Rm 54-100. Admission: \$2.50 \$1.50 w/MIT ID. Call Dora for confirmation x3-4441.

gin' in the Rain\*\* - LSC Movie. Sun, May 13, 6:30 & 9pm, Rm 10-250. ission: 75¢ w/MIT or Wellesley ID.

day Night Screenings\* — Last Grave at Dimbaza, Nana Mahomo; We he Lambeth Boys, Karel Reisz. Sponsored by the Film/Video Section, May 14, 7pm, Rm E21.

ly Are the Brave\*\* — Sponsored by the Department of Humanities. May 14, 7pm, Rm 14N-0615. Free. Call Dora for confirmation x3-4441.

of the Flies\*\* —Sponsored by the Department of Humanities. Mon, 14, 8pm, Rm 10-250. Free. Call Dora for confirmation x3-4441. Directed

Sponsored by the Department of Humanities. Directed by rki. In German, no subtitles, followed by a brief talk in German by Prof arin Dyck. Tues, May 15, 7pm, Rm 14E-304. Free. Call Dora for confir-tion x3-4441.

lita\*\* — Sponsored by the Department of Humanities. Directed by brick, Tues, May 15, 6:30pm, Rm 14N-0615. Free. Call Dora for confirmon x3-4441.

ese Cartoon: Monkey Makes Hovac in Heaven\* - Sponsored by the C. Thurs, May 17, 7pm, Rm 10-250. Donation: \$1.50.

#### usic

y Music Society\* — Tim Aarset director. Second Annual Spring ert of German Music (c.1450-1550) for chorus, soloists and instruments. May 10, 8pm, Chapel. Free.

#### khibits

House\* - Sponsored by the Tech Model Railroad Club. Display of del Railroad. Sat, May 12, 2-5:30 & 7:30-10pm, Rm 20E-214. Informa-

ent Exhibition\* - On view through May 23. Works by students of the eative Photography Laboratory, 120 Mass Ave, Camb, Mass, 3rd fl, Mon-9am-10pm; Sat, 10am-6pm; Sun, Noon-8pm. Information: call 253-

ses in Architecture: A documentation of six examples\* — Works nted by architects: Marvin Goody/Simmons College renovation; Louis Yale Center for British Art and British Studies; Gerhard Kaland Noel McKinnell/The Boston Five Cents Savings Bank; Donlyn on/Pembroke Dormitories at Brown University; Jack Myer/Dor-

mitories at Hampshire College and Worcester State College and Richard Tremaglio/private residence in Marblehead, Mass. On view daily 10am-4pm; Wed evenings; 6-9pm, Hayden Gallery, May 19 through June 24, Public reception: May 18, 5-7pm. 160 Memorial Drv, Camb, Mass. Sponsored by the Committee on the Visual Arts. Information: 253-4400.

Alan Saret: Stair, Water and Canopy Arrangements\* - Exhibtion of drawings for architectural projects. The artist's intentions, procedures and concerns with regard to architectural structures will be explored. On view daily, May 19 through June 24, Hayden Corridor Gallery. Sponsored by the Committee on the Visual Arts. Information: call 253-4400.

The Computer — From Counting to Cognition\* — Computers then and now and how they got that way, photographs, computers and representative documents that trace the historic and scientific development of computers, also indication of the ever-expanding use of computers and will include many of MIT activities that contributed to this development. On view through Aug 15, Mon-Fri, 10am-5pm, weekends, 1-4pm. Margaret Hutchinson Compton Gallery, Rm 10-150, Camb, Ma.

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 Laboratory for Physical Chemistry, Bldg 6.

New Records\* - Music Library, Rm 14E-109. Exhibit of record jackets of 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.

MIT Historical Collections\* - In-house exhibits include antique globes; the Ellsworth A. Wente Collection of motors and meters; rare instruments including compasses, sundials and other measuring devices from the 17th and 18th centuries; Early Alumni and several exhibits of memorabilia and photographs honoring prominent graduates of the Institute; The Compton Years, a photographic essay of the lives of Dr. & Mrs. Karl Taylor Compton. On view daily, 9am-5pm, 265 Mass Ave, 2nd floor, Cam, Mass

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

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

Hart Nautical Museum\* - Permanent exhibit of rigged merchant and navel ship models, half models of yachts and engine models. Open daily in

#### Theater

The Wild Duck\* — By Henrik Ibsen. Major spring production presented by the Dramashop. May 11, 12, 8pm, Little Theater, Kresge Auditorium. Information 253-2908. Tickets \$3; at the door and Lobby 10.

Israel Folk Dance Festival\* - Sponsored by the MIT Hillel. Featuring performances by twelve Israeli dance groups from the entire New England area. Sun, May 13, 8pm, Kresge Auditorium. Admission: \$3.50 adults; \$2.50 students w/ID, and senior citizens. Tickets available at the door.

Summer and Smoke\* — By Tennessee Williams. Presented by the Community Players. May 17, 18 & 19, 8pm, Little Theater, Kresge Auditorium. Tickets are \$3 in advance Bldg 10 for MIT & Wellesley students, or \$3.50 at the door. Group rates available. For information call 253-4720.

#### Athletics

Home Schedule\* — Fri, May 4, Golf, Wesleyan, Trinity and Assumption, 2pm. WV Softball, Regis, 4pm. Sat, May 5, LTWT Crew, Rutgers, 11am. V Lacrosse, Brandeis, 2pm. WV Softball, Brandeis, 1pm. MW Sailing, Invitational, 11:30am. Mon, May 7, Baseball, Suffolk, 4pm. Wed, May 9, Baseball, Northeastern, 4pm. Thurs, May 10, WV Softball, Endicott, 3:30pm. Sat, May 12, Lacrosse, Alumni, 1pm. Thurs, & Fri, May 10 & 11, N.E. Decathlon Championships Track, Noon.

#### Dance

Outdoor Dance\* - A performance of student work directed by Beth Soll. Sponsored by the Dance Workshop. Fourteen students performing their own composition outdoors. May 9, 10, 11, 6pm and May 12, 13, 3pm. Rain date: Mon, May 14, 6pm, Eastman Court. Free.

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

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

\*\*\*Open to members only

Send notices for May 16 through June 3 to Calendar Editor, Rm 5-113, x3-3270, before Noon, May 11, Friday.

# Course VI-A Sets Record For Third Year In A Row

For the third successive year, MIT's VI-A Program, which combines industrial and research experience with academic work in the Department of Electrical Engineering and Computer Science, will enroll a record number of students.

This year's VI-A Class of 100 students tops last year's recordbreaking class of 78, making it the largest entering class in the 62-year history of the program, director John A. Tucker announced.

Companies participating in the program listed 124 openings for which 141 students applied. Onehundred-twenty finally appeared on company preference lists after on-campus interviews in March-a much higher percentage than usual, Mr. Tucker said. Because some students are on several lists it is not possible to match all the openings.

"Undoubtedly," Mr. Tucker "this year's increased number of openings, up from 89 last year, is partly attributable to the growth of engineering opportunities in general, and particularly the high regard amongst the longtime participating companies in the program for the MIT students they attract. The increase is also the result of several companies adding new divisions to the program and the return of the Fairchild Camera & Instrument Co. to this year's selection process. The remaining growth is a result of companies increasing the number of openings at last year's loca-

Fairchild will have openings at its facilitites in California and Maine. Other company divisions being added include General Electric Co.'s special purpose computer center in Bridgeport, Conn., GE's Electronics Park operation in Syracuse, N.Y., and Motorola, Inc.'s, semiconductor group operation in Pheonix, Ariz.

Mr. Tucker also announced that several members of the department's faculty will act as advisors to the program. Professor Joel Moses, associate head of the department, will be the advisor to the Draper Laboratory. Professor David Adler will be the advisor for Fairchild's West Coast operation and Motorola's Phoenix operation. Professor Campbell L. Searle will handle the East Coast operations of Fairchild. Professor Joseph C.R. Licklider will be advisor at GE's special purpose computer center. Professor Dimitri A. Antoniadis will be the advisor at IBM's laboratories in Endicott and Yorktown Heights, N.Y.

Mr. Tucker said that this year, for the first time, the VI-A selection process, from the initial signup through the final matching process, was done with computers. The algorithm for the matching process was worked out by Professor David H. Staelin. The computer program was written by Dennis L. Sheckler. The growth in the number of students applying made the use of computers necessary, Mr. Tucker said.

He estimated that as of June 1 total enrollment in the program (juniors, seniors and graduate students) will be 263-also a record.

#### Alumnus Chosen As Head of MDC

Guy A. Carbone, a member of MIT's Class of 1957, was sworn in as commissioner of the Metropolitan District Commission Wednesday, May 2. After the ceremony he said, "I think being an engineer gives me an advantage on this job because a major portion of what the MDC does is construction." Mr. Carbone holds both the SB and SM in civil engineering from MIT and has a law degree from Suffolk University.

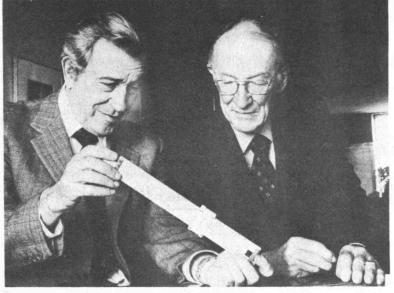
Morris Wins Danforth Fellowship

Susan Jane Morris, a senior in mathematics at MIT, has won a Danforth Graduate Fellowship for advanced study toward the PHD

Ms. Morris is one of 100 recipients of Danforth Fellowships this year, chosen from over 3,000 applicants. She plans to do her graduate work at MIT.

The Fellowship provides an award for tuition and fees plus an annual stipend for up to four years of study in preparation for a career in college teaching. Ms. Morris's interest in teaching dates back to high school when she taught math classes at the Lenox School in New York. Since 1977 she has been tutoring and grading for calculus courses at MIT.

Ms. Morris is president of the Undergraduate Math Club at MIT, and is a student member of the National Council of Teachers of Mathematics and the Mathematical Association of America. She hopes to combine a career in university teaching with research.



Kenneth J. Germeshausen, right, launched a campaign to build a collection of slide rules by presenting the one he used as a student and an antique French instrument to President Jerome B. Wiesner.

-Photo by Calvin Campbell

# MIT to Build Slip Stick Collection

At last week's meeting of the Council for the Arts, Kenneth J. Germeshausen, '31, director and consultant of EG&G, Inc., presented MIT President Jerome B. Wiesner with two slide rules, his own-bought when he was a freshman-and an antique French in-

Thus began what Historical Collections Director Warren A. Seamans hopes will become a definitive collection of slide rules at MIT.

"No instrument is more associ-

ated with MIT, at least in the minds of alumni, than the "slip stick," he said, "and yet there are very few of them in Historical Collections." At present, he said, there are fewer than 10 in the collection, which includes two antique cylindrical calculators.

Mr. Seamans said he hoped members of the community, including alumni, will contribute their slide rules, now instant antiques-and tax deductible-so that the Institute can develop a comprehensive collection.

## Indoor Tennis Sign-Ups Due

The 1979-80 Indoor Tennis Season will begin on Sunday, October 29, 1979, and continue through Saturday, March 31, 1980 (22 weeks). Applications from the MIT Community for 1979-80 seasonal plan playing time may be made and confirmed in person with Mr. Motroni at the Indoor Tennis Center, Mondays through Fridays, 8:00am to 4:00pm, beginning Thursday, May 17, 1979. Telephone reservations for seasonal plan use will not be accepted.

**HOURS & RATES** 

8:00am-12:00 noon@ \$6.00 per hour

1 hour per week-\$132.00 per court Singles-\$66.00 per person, Doubles-\$33.00 per person

1-1/2 hours per week-\$198.00 per court Singles-\$99.00 per person, Doubles-\$49.50 per person

12:00 noon-2:00pm and 6:00pm-11:00@ \$8.00 per hour

1 hour per week-\$176.00 per court

Singles-\$88.00 per person, Doubles-\$44.00 per person 1-1/2 hours per week-\$264.00 per court

Singles-\$132.00 per person, Doubles-\$66.00 per person

NOTE: The hours of 2:00pm through 6:00pm are reserved for MIT students. Application blanks are available at the Indoor Tennis Center, the Outdoor Courts, Equipment Rooms at duPont and Alumni Pool and from the Athletic Office, W32-117.

#### **Swetlitz Receives** Pressman Award

Marc Swetlitz, a junior in the interdisciplinary science program from Monroeville, Pa., has been selected to receive the first Jeffrey L. Pressman Award.

The Award was established through contributions of friends and colleagues in memory of Professor Pressman, a promising young faculty member in the Department of Political science who died in 1977. Additional support for the award will come from royalties on American Politics and Public Policy, a book edited in Professor Pressman's memory by Professors Walter Dean Burnham and Martha Weinberg.

Purpose of the Award is to support a summer project in American government or politics by an MIT or Wellesley junior. The Award may be used for research, education or travel.

Mr. Swetlitz plans to use the Award to study in detail the upcoming Triennial Convention of the World Council of Churches at MIT this summer.

"My objective," he said, "is to study the implications for American governmental policy concerning the transfer of technology to developing countries from the perspective of the Conference on Faith, Science and the Future, as the WCC meeting is titled." The conference will be attended by 500 delegates from around the world, most from developing nations.

Mr. Swetlitz will prepare a report on the policy implications of the WCC deliberations for presentation to the Department of Political Science in the fall.

### Student Papers Cited By IEEE

Two papers by MIT students won first and third places in the Boston section of the Institute of Electrical and Electronic Engineers (IEEE) annual student paper contest.

First place winner, a paper on the "Big Board" (which was displayed in Building 7 lobby during IAP '79) called "A Versatile Message Display System," by Brad A. Myers, '79, of New Orleans, Larry Rosenstein, '79, of Canton, and Bill Heil, '79, of Wayne, Pa., went on to win second place in the regional contest. Third place winner at the section level was 'A System for Mechanical Inspection Using Acoustic Techniques," by Charlie Freeman, '80, of Concord, Calif.

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# **CLASSIFIED** 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 ersons 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  $x_3$ -3270 or mailed to Rm 5-113. **Dead line is noon Friday before publication**.

#### For Sale, Etc.

Trombone, exc sound complt w/stand, cleaner, 2 mouthpcs, \$150. Perfect for budding young musician. Call 267-7776 ask for Hank or lv mag.

Heath AR-29 Stereo recvr. 35 watt/ch clean wiring, Benjamin Miracord 630 auto anger w/Ortofon F 15 E cart, \$65. Call Ron Stone

Pump motor, tank & pipes for well, \$150; long shaft Mercury motor for sailboat, \$100; silverplate service for 8 plus serving pcs & case, \$50. Call Ruth 9-4:30 326-5151.

Lk nw maple dine tble w/4 chrs; colonial sleep sofa 2 end tbles, brass lamp, nw \$1100, now 3 yrs old \$450. Call 776-7107 eves.

2 tennis rackets: Wilson T-3000, \$30; Wilson T-2000, \$25, little use, exc cond. Call 944-0152.

Nishiki 10 spd bike, lg M frme, exc cond, \$110 lock; also drafting tble, \$20, red rug 9x12', \$30. Call Paul x5-7276 Dorm

1 G78-14 rad, Sears tire; Admiral 19" color TV, nd work, \$30 or best. Call Linda x8-1322 Draper

Solid, port typewriter, man, 2 yrs old w/box, kept in the best state, nw ribbon, Sears-Elite. Call 864-8638 am or eves.

IBM Select II, exc cond, \$500. Call Elizabeth 491-

Tire sale 3HR78-14 radials, low mlg, \$50 for 3; 6 BR70-13, 2 snows, 4 reg rads, decent shape, \$50 for 6. Call 861-0944 aft 4pm.

1 spd bike, \$40 w/lock chain, lg stl basket, spare frnt whl; pr snows, \$40, 165 SR13; usd typewriter \$25, Remington port; neon sign trnsformer, \$20 15KV, 30mA. Call Valdis x3-7225.

2 lg Advent spkrs, \$160, Garrard trntble w/cart \$40; Heath Kit amp, 15 watt, \$160. Call Tom x5-6613 Dorm.

JVC recvr, 60 per channel, DC amp, 5 Step Sea Graphic equalizer, Sea rec, \$350; Philips AH 476 spkrs, 35H3-20K flat, 10" Woofers, midr & Tweeter, 60W, \$260/pr, both under guarantee, lv country. Call Janos x5-6657 Dorm.

Stereo & csstt tape deck; 8 track tape deck. Call

10 spd bike. Call x5-8255 or x5-8265 Dorm.

Waterbed for sale: Qu sz, incl matt, liner, htr & elevated frame, \$200. Call 267-1147 ask for Janet. Kimball upright piano, \$365. Call x3-5106 or 734-

Bike, Raleigh M 10 spd, gd cond, 25" frme, \$80. Call Michael x3-5797 or 868-3243 eves.

Boys bike, Phillips, 3 spd, 19" frme, 26" whl, \$35; girls bike, Raleigh Sports, 3 spd, 21" frme, 26" whl, 55. Call x8-4009 Draper.

Fisher upright piano about 60 yrs old, refinished est. Call George x3-1658 or 723-4838 eves

True antique Chinese thle lamp, porcelain, 1900, estimated & appraised by Boston Mus. of Fine Arts, \$75. Call Erika x3-2342.

Gitane 10 spd bike, \$100 or best, gd shape. Call Charlie or Faith x3-6505.

Beautiful 19" color TV, \$180 or best. Call x5-7436 Dorm am or wkends

Desk, lg flat top Swedish birch w/match chr, \$75 or best. Call 862-8690.

Undercounter Tappin dishwash, coffee color, fair ond, \$55 or best. Call x3-5030 or 485-6563 eves

Panasonic AM/FM stereo rcvr, built-in BSR trnt ble, Panasonic spkrs, dust cover, \$75. Call 492-3168

Collectors's plates: Women of the Century collection by the D'Arceau Limouges House in France and the Wizard of Oz collection by the Knowles House of the US. Call Arlan 734-0648 lv msg.

Whirlpool auto washer. Call x3-1520 or 395-3744

Color TV console, 21" Philco w/schematics, works, nds alignment, cheap, make offer. Call x3-2593.

Dishwash GE port Potscrubber, perfect cond, usd 1 yr, was \$240, now \$150. Call Jim x3-2173.

Spkrs pr 15" Woofers, 4 5" Mids, pr Tweeters, mst sell for summer, \$375. Call Steve x5-8226 Dorm.

Sears 10 spd bike, gd cond, \$50. Call Elaine x5-Red & Blue tweed 9x12' rug, \$75 or best; 3 11x30"

heu & Diue tweed 9x12 rug, \$75 or best; 3 11x30" blue shelves w/chain for hanging, \$12 or best; wicker hamper, \$7 or best; Big Mac hamburger/sandwich cooker, \$8 or best; small broiler oven, \$5 or best, all in exc cond. Call x5-8591 Dorm or leave a message for Gail Moskowitz at x3-5961.

Almst nw stl belt rads, Mich X 175x13, 3 on Pinto rims, balanced, \$150 for all. Call Charles x5519

Boys bike, beginners sz, lk nw, make offer. Call

2 prs of Salewa adjustble, flexible crampons, ea crampon has 10 vertical points gd for French flatfooted technique & 2 front points for steep or vertical ice climbing, exc cond, \$20 ea pr. Call Tom x3-3205 or 864-7087.

'75 Ply Gran Fury, gd cond, 80000 mi, \$1200; sofa opens to dble bed, \$50; dinette set & 4 chrs, \$50; fl opens to dble bed, \$50; amerue set & + this; lamp, \$25; BW Zenith TV, \$40; Proctor Sylex cof-fee maker, \$15; 3 lawn chrs, ea \$3; big folding lawn chr, nw, \$7; hand mixer, \$5; GE steam iron, \$3.50 & more. Call Lapidot 734-1639.

A/C 7000 BTU, Amanna, usd 1 season, vy gd cond,

A/C, 3 yrs old, vy gd cond, 8000 BTU, mst sell, \$65. Call x3-6416 or 354-3515 Leslie.

Black & Decker 711" circular saw w/2 blades, usd once, \$14. Call Jane x3-2409 or 926-8630.

Nw W 3 spd bike, 26", \$55; lk nw tw matt, \$20; Kodak Instamatic 30, nw, \$10; hair dryer 1000W, \$8; desk lamp, \$5; wooden storage box, \$10. Call Ed 492-2515 eves.

Pool, 16x32' redwood style w/deck, motor, filter,

etc, comes apart in sections, removal to your site can be arranged, best. Call 774-0426 eves.

Tw beds attached to kg-sz headboard, matt & box sprngs, \$300. Call 244-1872.

Nikon F Photomic 50/fl.4, \$275; Nikkormat EL 50/f2.0, \$275; Nikkor 135/f2.8, \$135; Nikkor 35/f2.8,

\$60; Nikkor 80-200/f4.5, \$310; misc accessories; Polaroid 95B + meter. \$60; ESAT-100 Video Terminal Interface, \$75 Cromemoc 32K Bytesaver, a&t, \$190; 5" mini floppy drive, \$225. Call Barry

Nursery grown trees, Scotch Pines, White Spruce, 3-7', \$1.50 per ft. Call Mario x8-2588 Draper.

B&W 16" Zenith TV, gd shape, \$25; brnd nw ladies Timex wrist watch, \$8. Call 232-0484 days.

Fiberglss insulation R19 Kraft face, 6"x23"x32', 2

Sandals, made to order, \$25; also custom-made

shoes, \$30 & up; I specialize in fitting hard-to-fit feet. Call Martha eves 964-2003.

Desk, wood, stained brown, 22x48", 6 drawers. Call

Nw D78-14 mntd on Volari rim, Call Raymond x3-

70" sofa, \$150; qu sz hide-a-bed sofa, almst nw. \$250; vnyl chr. \$20; Zenith B&W console TV, \$45;

night tble, \$10. Call Prem x3-5469 or 625-4732 aft

Kryptonite lock, \$11; br nw, Waring ice cream

maker, \$19; br nw Presto pressure cooker, \$19; W Head skis w/out bindings, \$30. Call Sue x3-2992.

Schwinn Varsity 10 spd bike w/Citadel lock, \$20.

Sanyo, waist-high yellow refrig, 4.0 cu ft, exc cond, frzr section, \$80. Call Nina 731-2258 eves.

Pentax 6x7/105mm, f/2.4, \$350; Teac csstt deck A360, \$230; Smith-Cornona elect typewrtr, \$20 Call Tony x3-7066.

Youth stereo record player, \$40; boys 24" 5 spd

Fll sz matt & box spring, avail 5/26, \$45; wood chest of drawers, \$30; wood DR tble, \$50; sculptured shag carpet & pad, \$70; mst sell lv country. Call 277-5493.

Antique, mahogany veneer vanity w/lg mirror & match chr, \$80 or best. Call Carol x3-1614.

bike, \$40. Call Michael x8-2884 Draper

\$5 ea. Call John x8-4095 Draper.

Bunk beds, 1 foam matt, \$60. Call 661-8440. Nikon 18mm f/4 lens, hood, cap & case incl, exc cond, ask \$250. Call Dale x8-3337 Draper.

Plants, Perennial: Violets, Mrytle, Jap Iris, Snow on Mt, Spearmint, Forsythia. Call Harry x5837.

Call David x5-6280 Dorm.

#### Vehicles

'66 Ply Barracuda, 225 six, auto, many nw parts, nds eng work, \$50. Call Tony x8-1532 Draper.

'67 Chevy II Nova, 6 cyl, stndrd trans, gd run cond, burns reg gas, nw bttry, voltage reg, hvy duty shocks, etc, \$350 or best; also various hsehold & kids items, bike, etc. Call 862-4826.

'69 Ford Custom, runs vy well, what more could you ask for?, best. Call 492-0983 eves.

'69 Ply Fury II, 318 V8 eng, nw timing chain, gd run cond, \$395 or best. Call Leo x3-7216 days or 665-7232 aft 6pm.

'69 Volvo, 4 dr sedan, gd cond, 78K, shocks, brks, bttry & exh sys, extra tires & rims, no dents, \$1400 or best. Call 729-4652.

'70 Pontiac LeMans, Sport Coupe, 67K, V8, autrans, PS, vy gd run cond, \$500. Call 926-8276.

'70 Volvo 1458, grey, 89K, runs, nds work tinglass, AM/FM, A/C, rads, great for Voenthusiasts, \$300 or best. Call John x3-5146.

70 VW Sqbck, wl maintained, 1 owner, eng exc cond, 85K, bdy shot, bttry tires gd, nw car arriving next wk, mst sell soon, \$250 or best. Call Henry

Kolm x3-5554. '70 VW Bus, 5 pass w/seat that converts into dble bed, screen windows, 1 owner, \$500. Call 862-1886.

71 Dodge Dart Swinger, 72K, gd cond, 1 owner, lv country, must sell, \$750 or best. Call x5753 Lincl or 729-8364.

'71 VW Beetle, some accident damage, motor fine builders special or parts car, best. Call 969

'71 VW Superbeetle, vy gd cond, nw tires, nw clutch, eng over-hauled in '76, \$1100 or best. Call Riccardo 547-7851 or x3-6669.

'71 VW Squareback, nds much work, but runs,

72 VW Bug, 68K, nds mfflr & minor adjustments ng gd, overall in gd cond, \$1000. Call Susan x3-

'73 Chevy Vega, 2 dr. auto, A/C, AM, 59K, extra snows, \$500 or best. Call Bengt 492-6983 or x3-

'73 Honda 750K 4 into 1 pipes, Windjammer, clean, low mlg, mst sell, \$1300. Call Marc 494-9833 x3-3213 aft 6pm.

'73 Pinto, some rust, mechanically sound, 69K, \$495, gd tires. Call Dave x7864 Lincl

'73 Vega stat wg, 37K, no rust, AM radio, nw tires,

\$900. Call x3-5694. 74 Ford Pinto, 45K, radio, 2 snows, exc cond, selling because ly country, avail end of May, \$1350.

Call 494-0350.

74 Mustang II Mach I Coupe, red out, black in, 4 spd, 6 cyl, 66K, 2 nw stl bltd rads w/sport rims, PS & PB, AM/FM w/Jenson spkrs, dig clock, kill switch, 23mpg, exc body & eng. Spring Sticker, can be seen at MIT days, \$2,200 Call Nancy (days) x3-7283, 646-1584 eves.

'74 Renault R12 stat wg, 48K, beat the gas shortage, 32mpg, gd cond, \$1495. Call x7546 Lincl.

'74 Saab, GLE 4 dr orange, stdrd, exc cond, org ner, going overseas, mst sell, \$3100, Call x3

74 Toyota Corona Mach II, 58K, exc cond, \$1750. Call Dick Clark x7124 Lincl.

'74 VW Beetle, 51K, nw brk lining, rocker panel rust, AM/FM, \$1700 or best, moving West, mst sell. Call Tom x8-1521 Draper.

'74 VW Bug, gd run cond, \$1700 or best. Call Roy

'75 Audi Fox, 2 dr auto, 46K, exc cond, gas mlg Call Bob x8-1418 Draper.

'75 Chevy Monte Carlo, exc cond, PS & PB, low mlg, \$3500 or best. Call Marilyn x8-3501 Draper or (1) 587-5826 eves.

75 Fiat 128 SL Coupe, frnt whl drv, htchbck, stl

blted rads, 4 snows + whls, r window defrost, vy gd eng & bdy, extra instrumental, 35K, ask \$1550. Call Bahram x3-1409 or 354-1140.

'75 Honda CB 550/4, 8K mi, exc cond, rack, c bar, nw mfflers, \$1195. Call Ross x213 Lincl.

76 Gremlin, stndrd blue, rads, 2300 org mi, ask \$2075 or best. Call Pat x3-2713 or 277-6150. 76 Kawaskaki KH400 2 stroke, 2800mi, lk nw, 2

helmets & cable lock, ask \$1150. Call Vaughan x3-2488 or 731-9679. 77 Ply Fury Wg, A/C, auto, PS & PB, V8, exc cond; 73 Buick Century Luxus wg, AM/FM, A/C, auto, PS & PB, V8, 6-way pw seat, exc cond. Call

Hank x326 Linel. 79 Chrysler LeBaron, 6 cyl, auto, PS & PB, AM/FM stereo, vnyl rf, arm rests, exc cond, \$4900.

Call Walt x3-4203.

12' Alcort Sunfish, vy gd cond. Call Jerry x7541

14' Mirro Craft deep sea fisherman w/20hp Johnson & Snowco trailer, '72, exc cond, extras, \$1150. Call x3-8051.

Sailing dinghy 400 lb capacity, exc cond, \$395. Call Jake x8-1478 Draper.

#### Housing

Coop apt unit for sale, Allston, cls to Gr line, side st, off st park, 5 rms, lg closets, \$12,500+ \$155 monthly maintenance, littered student neighborhd. Call x3-7567.

Back Bay, penthse, summer sublet, 400 sq ft. both facing deck, 2BR, LR, Ktte, furn, park, gd bldg on Comm Ave, 1 min walk to MIT, June 1-Aug 31, \$500/mo. Call Allin x3-7140.

Apt for rent Belmnt, 7/1, 5 rms, 2BR, furn, mod elect K, disposer, washer, 2 porches, gar, nr trans, sch, \$395/mo + util. Call x3-2139 or 484-2707.

Belmont attractive rm, beautiful hill home, swim pool, tennis nr by, K prvldges, park, non-smoker. Pls call 484-6833.

Spac 2+BR furn Brookline apt w/frpl, hardwood firs, nr T summer sublet, 6/1-9/30, \$450/mo, incl util +A/C. Call Seymour Papert x3-6215. Summer rental Cape Cod, So Yarmouth, yr round

hse, 3BR on pond, beautiful quiet area, avail wk of 6/9, \$175/wk; 7/28, 8/4, \$300/wk. Call Gerry x8-1271

Spac 2 BR, LR, K & B apt, 1 min to Central Sq, safe neighborhd, avail June 15, 462 Green St, apt #8. Call 864-3060. Call Pat Drosson aft 6pm. E Camb, 1BR, Thorndike St, 1 min from MIT, nr

Green line, quiet, safe, \$200/mo. Call Luther x3-6746 or 864-6712. er sublet, Camb, 5 min walk to Harv Sq, bus

to MIT, 1BR, LR, K&B, furn, avail 6/10-8/30, \$260/mo, inclutil, Call Luca 354-7901 kp try. East Camb IBR apt in quiet safe area, nw K, B, sublet for summmer w/opt, \$175/mo. Call Luther

x3-6746.

Cambport hse, mod 3BR, 212B, conv T, avail Sept 1. Call x3-7281 or 491-4258 eves.

Summer sublet, furn sngl rm, dble apt, 14th fl, Tang Hall, 550 Mem Drv, avail June 2-Sept 2. Call x3-2551 or 494-8973. Summer sublet, Tang Hall, furn, 19th fl. view Charles Rvr, BU, avail May 25, \$141/mo nego. Call Peter x3-2922 or 494-8935.

Efficiency apt at Westgate avail for sublet from June 1 to Aug 31, if interested pls call Kumar x3-4905 am or 494-8159 eves.

Sublet studio apt, ideal for 1, close to Harv Sq, mid June-mid Oct, \$140/mo incl util. Call Lea x3-6465 or. 547-6657

Studio for summer sublet off Harv Sq. Call Jack x8-3345 Draper. Nr Harv, 6 family, exc income, potential, alum

siding, com windows, off st park, lg fenced in yard, gd cond & nd little or no work, apt flly rented, ideal for students, \$69500: Call Owner 426-7769.

2 sngl rms for rent for yr and willing to shr hse for er only, walk distance to Harv, residential area. Call x3-7378.

Summer sublet, Beacon St, studio by Harv Bridge, part furn, gd cond, prc nego. Call 236-4930 aft 7pm Energy efficient country living, 2000 sq ft, 3BR, 1

2acre corner lot, \$7-

7,900. Call 862-5500 or x5519 Lincl. Sublet for period, June 1-Aug 31, vy lg rm 12x18' all furn, refrig, vy quiet, nice cool during summer, vy cls to T, grocery, laundry nxt dr, 10 min walk from MIT, \$130/mo, shared B, 398 Marlborough St. Call 267-2919 or x3-2922 anytime, even late.

12 B, 2 car gar, porch,

\$85/mo summer sublet, next to Sullivan Sq, T. rms, full facilities, avail May 15, easy bike to MIT & Bos. Call Paul x5-6688 Dorm.

Needham, 3BR furn, avail May 20-Aug20. Call

Lake Champlain summer rental, Willsboro pt NY side, cottage on 2 acres w/lakefrnt, 1 hr to Adirondacks, 9 hole golf course nearby, sleeping porch, BR, bunkrm, B, K, LR w/frpl, \$185/wk another cabin on same lot avail for \$65/wk adavail parts of June, July and Aug. Call x5709 Lincl.

Summer Lodge, Lake Champlain, NY, sailing, tennis, club, waterfrnt, boat supplies, slp 6, \$350 for 2 wks. Call (401) 295-0290 or write Louis Van de Velde, 151 Main St. Wickford, RI, 02852.

2BR condo in Provincetown, ocean front walk to beach & town, \$350/wk, June 15-Sept 15. Call x8 2471 Draper or 969-3833.

Reading, hse for rent, 2BR, \$545 sec dep. Call 944-

No. Reading for rent Aug 1st, 7 rm hse, exc neighborhd, 3BR, 21/B, fam rm, frpl, 2 car gar, scrnd porch, ww, 1/2 acre wooded lot, \$500/mo sec dept & lease, no pets. Call Charlie x5750 Lincl or 664-2341.

Price slashed, antique farm hse in Sudbury, easy commute to Camb, \$99000. Call Craig 332-6004.

Prv rm & B, in Watertown family hse, F nor smoker in return for afternoon babysitting, old, cls to T, & Harv Sq, avail immed. Call Prof Kildow x3-4328 or 924-7239.

Alton Bay-Winnipesaukee Area, hse in quiet mountain-side area, 5 min walk to prv beach, slps 6, \$150/wk, Call Vin x5461 Lincl.

Lake Winnipesaukee, 2 BR, 2B condo, overlks lake, DR, cable TV, swim pool, extensive activities avail June 1 thru Labor Day, \$250/wk. Call x8-6169. Summer rental secluded mod 4 BR White Mtns

has for rent, July & 1st 2 wks in Aug, prv rights to isolated lake, use of sailboat & canoe, \$250/mo. Call 862-4089 or x3-3641. e-season rental, Woods Hole, May 15-June 15, or wk, 5BR hse, mod K, flly equip, prv beach. Call Animals

Free kittens, 6 wks old, adorable & fluffy. Call Helen x3-2710.

Free, 5 mo old B&W F pup, mutt, extremely friendly & loving has had all recommended shots to date. Call x8-1135 Draper.

Free puppies, blck & brwn, collie, shepard & mix, 6 wks old. May 10. Call Cheryl x3-8040.

#### Wanted

Hse to rent or shr, nr Kennedy Sch & BB & N, 1 yr , about Aug 1 '79, women & boy (5 yrs), golden retriever option, but hopeful. Call (202) 686-0224

Young responsible pro and his parents looking for flly or semi-furn, 2BR Bos apt for summer sublet, June 1-Sept 1 for approx \$350, exc care will be provided for the flat and the furn. Call M.K. Tulga 494-9245 aft 7pm wkdays or all day wkends x3-6646 or 933-0111 Visiting Oxford this fall? Oxford prof & wife, no children, sk exchange of accomodation, dates by arrangement. Oxford hse: attracty, sun, 2 mi south

Ride for 2 in hot air balloon. Call x7766 Lincl or

Rider wanted to shr driving & expenses, lv Wash, DC about June 21 for Denver, plan to spend few days in Denver w/arrival in San Francisco June 30th. Call J.B. Smith x3-7149 Rm 1-181.

Riders wated to & from Brkline, 9 & 5pm. Call Bert

Rd nd to Cleveland, OH, May 11-14, wl shr the usual. Call Ivan x3-6328

Usd refrig w/lg freezer spc. Call Frances x5-7661 Dorm

G78-15 or H78-45 bias ply tires, 10 mlg only. Call

Chuck x5530 Linel. 1 Supertramp ticket. Call Anne x3-5676.

2 grad students nd 2BR apt in Camb or Back Bay, June or Sept. Call Kim x3-8136.

Wanted, 3 tickets to grad. Call 864-3919 Meredith

#### Roommates

duplex apt in Arl, park avail, conv loc, nr T & stores. Call 646-3123 eves or wkends, avail June 1. F rmmate wntd for summer sublet to shr w/2 other

2 rmmates M or F wntd to shr Beacon St, Back Bay apt w/1 MIT W, lg, sun BR for \$150/mo, smaller one for \$120/mo, nego, fall opt, 20 min walk to MIT, cls to T. Call 266-3430.

Apt to shr, off Harv Sq, Maple St, Camb, start June 1, \$200/mo incl ht + util own BR, furn, beautiful apt, grad student prefer. Call Reiko 969-

M rmmate nd to shr, 2 BR apt, off Inman Sq, 20 min walk to MIT, gd park, gd K, \$150/mo + util, non-smokers, avail now. Call Steve x3-6081 or 776-

rmmate wntd for 2BR sun mod furn A/C apt in

rmmate 25+ wntd for 3BR apt, Medford, wash/dry, dishwash, conv T, cat okay, \$120/mo + util, avail July 1. Call Clara-Mae x3-7060.

M rmmate to shr hse Medford off-st park, lot on bus route to Harv Sq, \$110/mo, shr utils. Call

MIT student working in Wash, D.C., this summer looking for other student to find & shr apt. Call x5-

2 to 3 rmmates with June 1-summer, shr 6BR apt w/3 grad students, Watertown, 2 bus lines, 10 min to Harv Sq, coop cooking washer, park, poss opt for yr, \$95/mo + util. Call 923-0368 or Chris x3-5957.

#### Carpools

Person nd to join established carpool for Worcester Area to Bos & MIT, arrive at 8am leave 5pm, take your car 1 day a wk & no money exchanged. Call George x3-4711.

#### Miscellaneous

\$2 haircuts at Diego at the Loft in Camb. For info call 661-7660.

service, lg truck and prof equipment, inexpensive rates. Call 661-1683.

WI do gen, tech, thesis, IBM Correct Select. Call Beverly x8-4427 Draper.

Exp secretary, wl type term papers, thesis. Call x3-

WI type all papers, wl correct English, tech typing and illustration, 90wpm, \$2 per pg. Call Beth x3-2348.

# **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, out-side the offices of the Special Assistant for Women and Work (10-215) and Minority Affairs (10-211), and in the Personnel Office, (E19-239).

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

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

Dick Higham Pat Williams 3-1594 3-1593 Susan Lester (Secretary — Tertia Perkins)

3-1591

3-4266

3-4267

Ken Hewitt (Secretary — Marsha (Gens) 3-4275 3-2928 3-4269

ing and implementing programs, clubs and related activities (including fund raising); prepare background information for visits to organizations; assist in management of publicity programs; maintain liaison and good relations with MIT com-munity; assist in identifying potential donors and in management of budget; supervise, plan and monitor staff. Participate in special projects as necessary. Some travel required. Bachelor's degree or equivalent required. At least 3 years experience in educational administration or public relations necessary. C79-9 (5/9)

Admin. Staff, Assistant Equal Employment Op-portunity Officer in the Office of the Vice President, Administration and Personnel to initiate changes in the Institute's Affirmative Action Plans, as necessary, to increase their effectiveness or to comply with changed legislation; evaluate progress toward affirmative action goals with respect to employment, promotion and salary equity; advise senior officers and others in related matters; act as liaison with government agencies; provide staff assistance to Institute Equal Opportunity Committee: and assist in other areas further Institute's goals in areas of equal oppor-tunity in employment and education. Position re-quires thorough familiarity with EEO/Affirmative Action laws and regulations, superior interper sonal, analytical and communications skill. Administrative experience in a university preferred Advanced degree or law background desirable

Admin. Staff. Technical Writer in the Information Admin. Staff, Technical Writer in the Information Processing Services' Publication Service Office to be responsible for preparation and publication of computer user documentation for CMS, OS/VSI, Multics and TROLL: write, edit, layouts, graphics and assurance of document accuracy. May also teach and consult on word processor. Bachelor's degree, or equivalent, proven writing ability and some knowledge of computing required. A79-22 (5/2) (5/2)

Acad. Staff, Associate Director of Libraries, to be responsible for day-to-day operations of Libraries. Will share with Director responsibility for long-range planning; program planning and development; act as liaison with faculty and administration. Master's degree in Library Science and at least 10 years of increasingly responsible experience in an academic/research library environment including at least 3 years in a maior administration. ment including at least 3 years in a major ad-ministrative capacity required. Understanding of present and future directions of academic/research libraries and expertise in either technical service, professional personnel, automation, space plann

Acad. Staff, Technical Instructor in the Physics Dept, in an experimental atomic and nuclear physics teaching laboratory at the junior level: as-sist and instruct students with experimental lab apparatus; trouble-shoot and repair equipment; assist in the design and implementation of new ex-

Sponsored Research Staff, Research Associate, in the Earth and Planetary Sciences Dept. to administer an on-going field program in Antartica.
Will apply sound knowledge of magnetics, gravity, heat flow and multi-channel se mic to the running of the program; supervise individuals at all levels. Ph.D. in marine geology or geophysics or a related field required, as well as experience in running a field program. Advanced knowledge of

Sponsored Research Staff, Experimental Plasma Physicist, in the National Magnet Laboratory to participate in the operation and development of its Tokamak experiments. Will supervise machine operations and technicians; coordinate various diagnostic groups to develop integrated understanding of plasma behavior. PhD in experimental plasma physics and experience with operation of plasma physics and experience with operation of laboratory magnetic plasma confinement devices required. Background knowledge of MHD equilibrium, stability theory and techniques of high-temperature plasma diagnosis desired. R79-106 (5/2)

Sponsored Research Staff, Experimental Plasma Physicist, in the National Magnet Laboratory to conceive, design and operate complex diagnostic experiments intended to measure the characteristics and performance of high field tokamak thermonuclear fusion equipment. Expertise in planning diagnostics employing optical and infrared laser scattering techniques required. PhD in experimental plasma physics and 4-6 years experience in plasma research also required. R79-107 (5/2)

Physics Dept. to develop and construct prototype experiments under guidance of a faculty member. Work involves both mechanical and electronics design and construction. Bachelor's degree in physics desired. Knowledge of physics and com-puter programming (BASIC) necessary. R79-113

### Sally Han Lawrence Milan Kathleen Rick (Secretary - Jenni Leibman)

Virginia Bishop

Richard Cerrato

Academic Staff in the Sloan School of Management's Alumni Relations Program to assist in developing, planning and managing the Program and other public relations efforts: assist in develop-

and/or resource sharing centers also required.

periments. Bachelor's degree in physics or electrical engineering with a concentration in physics and some background in electronics re-quired. (779-8 (5/2)

similar field program. Advanced knowledge of FORTRAN and its use in scientific computing in an IBM 360 or 370 environment also required. Must be willing to go to see at least 2 months each year. Publications and several years posdoctoral experience useful. R79-117 (5/9)

Sponsored Research Staff, Technical Asst. in the

Visiting prof wants to rent hse for '79-80 acad yr. nr MIT. Call Dick x358 Lincl.

French M sks to sublet 1 BR apt nr BU or MIT, from as soon as possible, until 6/15/79. Call 262-6354.

of ctr. 3/4 BR, 2B, Ig garden, gas fired central ht & usual appline, also cleaning help 3 times wk, gardening twice wk, local references avail. Please write to James, Drake House, Hinksey Hill, Ox-

Telephone answering machine. Call Jane x3-2409 or 926-8630.

Wanted: Usd 10 spd bike in gd cond. Call 322-4764

F rmmate wntd, 25+ to shr apt w/same, spac 2 BR duplex apt in Arl, park avail, conv loc nr T & stores, avail June 1st. Call 646-3123 eves or wkends. F rmmate wntd. 25+ to shr w/same, spacious 2 BR

women grad students, Arl, on T, \$150/mo w/util, own rm, no smokers. Call Beth x3-6032 or 643-3180.

0691 6-9pm eves.

2645 eves. M. F. or couple, summer sublet nr Inman Sq, nd to shr rehabbed town hse w/working couple & friendly dog, on quiet alley, 2 flrs, own BR, flat sunrf, prv, \$140 incl util. Call Wendy or Joel 354-7039 or Joel

Camb, Orson Wells area, \$140/mo, non-s preferred. Call 876-0159 eves.

Wes x5850 Lincl.

8206 Dorm ask for Hans.

Moving? Call Dan's Van for careful dependable

Would anyone who is interested in cycling from San Francisco to Bos, aft July 4 call Dave Strange x186-8-3927.

WI type theses, MS, tech, fast & accurate, IBM Correct Select. Call Debbie x3-1848.

## Page 6, Tech Talk, May 9, 1979

Sponsored Research Staff, Research Associate in the Materials Science and Engineering Dept. to perform research on relationships between surface and mechanical and corrosion properties, with mphasis on cracking in transparent glossy emphasis on cracking in transparent glossy materials. High vacuum electron spectroscopic experimental techniques will be used among others. Background in surface chemistry, related physical metallurgy or solid state physics preferred. Experience with electronic and vacuum equipment helpful. R79-111 (5/2)

Admin. Staff, Programming Analyst, in Informa-tion Processing Services (Academic and Research Services). Responsibilities include documentation, Services). Responsibilities include documentation, user education, problem diagnosis and troubleshooting. Position requires Bachelor's degree in a technical field, and at least 2 years programming experience, or equivalent. In depth knowledge of 1 or more operating systems, including time sharing systems necessary. Ex-perience with at least 2 high level languages also required. One position is full time, permanent, A79-25, and one is temporary, full or part-time,

Sponsored Research Staff, Scientific Programmer, in the Earth and Planetary Sciences Dept. to provide programming support for the analysis of celestial mechanics data from space-related projects: design, write, modify and run programs which format, analyze and display data and result; run data-anyalysis tool. Bachelor's degree in math, physics, astronomy, engineering or the equivalent required. Advanced knowledge of FORTRAN, including debugging techniques, efficient program code and designing practices also required. Master's degree in a related field and/or knowledge of IBM/370 JCL, TSO and assembler, and ex-perience with large programs helpful. R79-116 (5/9)

Sponsored Research Staff, Research Associate in the Materials Science and Engineering Dept. to program system and applications software design and coding; assist in organization and coordination of project(s); work with faculty, staff and students. of project(s); work with faculty, stair and students. Projects involve computer-video/cable network, computer languages, and public information and learning system using newly developed dynamic input terminal. Ability to program minicomputer system necessary. DEC PDP-11 experience also necessary. R79-112 (5/2)

Sponsored Research Staff, Programmer/Engineer, part-time, in the Architecture Dept, to design, build, debug and maintain intelligent interfaces; write driving and applications software for an interactive computer graphics/color image processing system. Knowledge of Interdata and 280 architecture and understanding of operating systems design, interactive computer graphics and image processing required. Extensive software and hardware experience and at least 3 years experience in assembly language and PLI programming also required. R79-114 (5/2)

Exempt, Writer/Editor, part-time, in the Center for Transportation Studies to handle the planning and preparation of material describing activities, programs and philosophies of the Center; assist in creating effective public relations and advertisements. Professional writing experience required. Also required is considerable independent work and skill in information communication and sum marization of a fairly technical material.

Familiarity with MIT helpful. Applicants must submit letter explaining interest in position as well as resume. E79-15 (5/9)

Lib. Asst. V, Assistant Curator, temporary, in the Libraries Historical Collections section to answer written and phone inquiries concerning holdings and MIT's history; assist visiting researchers in the use of the files; order and process requested photographs; catalogue and file materials; research and write text for exhibits and artifacts; write weekly column for community newspaper. Will also initiate and coordinate educational programs including organizing meetings and seminars. Demonstrated writing and organizational ability and typing skill required. Post high school education can count as experience, college study and museum experience preferred. 40 hrs./wk. Temporary for one year. B79-223 (5/9)

Library Asst. III, part-time, to perform duties in 2 sections of the Rotch Library. In the public service section will handle circulation desk duties; charge, discharge, renew books; file; prepare overdue notices; write fine slips; record statistics; inspect briefcases and handbags; answer inquiries; refer users to reference desk; perform miscellaneous duties. Will also handle reserve section duties: identify, collect, process and service materials. Some weekend and evening hours may be scheduled during academic year. Good typing and interpersonal skills and ability to handle detailed es and routines required. 15 hrs/wk. B79

Library Asst. III in the Dewey Library Reserve Book Section, to assist in overall operation of sec-tion; process bank lists; maintain circulation records; prepare overdue notices; collect fines; maintain stacks; supervise student assistants. Some typing skill, ability to organize work, and to work effectively with faculty and users required. Position includes some evening and weekend work on a prearranged schedule. B79-231 (5/9)

Secretary V to the Director of the MIT-Industrial Polymer Processing Program and the Lab for Manufacturing and Productivity, Mechanical Manufacturing and Productivity, wastername. Engineering, to prepare correspondence; handle planning and supervision of conferences, workshops and meetings; prepare project budgets; monitor lab personnel; determine and insure compliance with standard operation procedures. Will pliance with standard operation procedures. Will also supervise activities of 2 secretaries and coordinate additional personnel when necessary. Thorough knowledge of office procedures, organizational and interpersonal skills and ability to handle complex situations required. At least years' experience (3 at a senior secretarial level) also required. MIT experience desired. B79-232

Secretary V to two faculty members and their associates in the Psychology Dept. to coordinate research efforts; monitor accounts; layout and design brochures; type correspondence, proposals and technical manuscripts (through the use of a word processor); maintain files; answer phones; organize reading list material; perform miscel-laneous duties. Excellent typing (including technical typing), technical design, and organization skills required, as well as facility with finan-cial data. Word processing experience desired.

Secretary IV/V in the Energy Laboratory to the Manager, Sloan Automotive Engine Laboratory. Will type correspondence from verbal instruction, written draft or machine transcription; maintain files; arrange seminars; perform various tasks to support research (i.e., library searches, report editing). Excellent typing skill, and ability and at least 2 years' secretarial experience required. B79-

Secretary IV to Marine Industry Advisory Services Manager, Sea Grant College Program, to compose and send responses to inquiries about Program; asin organizing and distributing meeting materials (mailings, agenda); arrange luncheons; maintain files and records. Program involves publication and dissemination of technical reports on MIT marine research projects. At least 3 years applicable experience, excellent general office skill, including willingness to learn word processing required. B79-229 (5/9)

Secretary IV to Assistant Director of the Industrial Liaison Program. Will type correspondence; han-dle information requests and schedule appoint-ments for representatives of Program member companies; maintain activity statistics; coordinate appointment calendar. May assist with office overload typing as necessary. Excellent typing and machine transcription skill required. Shorthand helpful. B79-227 (5/9) Secretary IV in the Medical Dept. Pyschiatric Service to perform detailed confidential secretarial duties: make appointments; type file. Will also work with clinical sociologist in coordinating Institute wide activities for members of international community (students, faculty, staff and their families). Will arrange weekly meetings; prepare and distribute notices; supervise volunteers. Must have an interest in orienting newcomers from abroad to MIT community. Familiarity with MIT and knowledge of a foreign language helpful. Non-smoking office. 37.5 hrs./wk. B79-228 (5/9)

Secretary IV in the Linguistics and Philosphy Dept. to answer phones; type correspondence, manuscripts and proposals; maintain student records; arrange travel; answer inquiries. Excellent typing skill and good machine transcription skill required. Willingness to learn operation of computer based word processor also required. Some amiliarity with academic environment desired

Secretary IV in the Energy Laboratory to Managing Director of Electric Utility Progarm Office to type correspondence, proposals, technical reports, answer correspondence independently or from verbal instructions; assist with budget preparation and submittal, organization and arrangements for seminars, workshops and project review meetings. organize and maintain files; arrange travel; handle expense account. Good organizational and communications skills, accurate typing and machine transcription and skills and a facility for detail required. B79-213 (5/2)

Secretary IV in the MIT Associates Program to type letters and reports; answer phones; trans machine dictation; arrange travel; file; handle cellaneous duties as necessary. Good organizational, secretarial and spelling skills required. Secretarial or business school graduation and/or a year of experience desired. Non-smoking office. B79-212 (5/2)

Secretary IV in the Humanities Headquarters Office to answer phones and inquiries; order and coordinate dpet. film series; order books for courses; type manuscripts. Good typing and organizational skills required. Dictaphone experience helpful. B79-217 (5/2)

Secretary III/IV to 2 faculty members of the Laboratory for Computer Science to type course notes, technical papers, maintain files; arrange travel; check budget statements; manage files for a communications journal; do computer text editing. Good secretarial skills and ability to organize priorities required. Will also be required to learn computer-text editing. MIT experience or college background preferred. B79-40 (5/2)

Secretary III/IV, part-time, in the Office of the Dean for Student Affairs/Preprofessional Office to coordinate visiting groups; communicate with staff and vendors: order materials and supplies: handle accounting procedures and statements. Will also maintain mailing lists; prepare statistics and reports; answer inquiries. Good interpersonal and typing skills required. 17.5 hrs./wk., afternoons only, B79-216 (5/2)

Secretary III in the National Magnet Laboratory to type technical manuscripts, reports and general correspondence; maintain files and records; schedule conference rooms; arrange coffee set-ups and travel; assist in producing lab newsletter; as sist 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

Tech. Asst. V, in the Medical Dept. to input data to and produce reports from a computerized system to monitor treatment; interact with system users regarding data; review related medical records to identify data for system; conduct other studies of medical data. Position requires knowledge of computer logic and computer terminal operation, and familiarity with use of computer as research tool. Some typing skill also neces-sary. Applicants must be able to exercise initiative and to carry out projects independently. B79-199

Clerk IV in the Nutrition and Food Science Dept to process travel vouchers, payment requests and requisitions; maintain files; verify monthly tran-saction report; handle petty cash; perform miscellaneous duties as necessary. Typing skill, attention to detail and ability to order priorities required. unting knowledge helpful. B79-225 (5/9)

Clerk IV in the MIT Press to handle bookkeeping activities; maintain a variety of records; prepare monthly billing report; answer phones; file; order supplies; type; process and coordinate reprint orders. Good typing, bookkeeping and interpersonal skills, familiarity with book production and manufacturing and ability to handle detailed work required. B79-233 (5/9)

Sr. Clerk IV in Physical Plant to prepare records from various sources; calculate Plant performance according to Plant guidelines; maintain daily inventory; prepare monthly inventory summary; purchase and maintain supplies, tools and equipment spare parts; process purchase orders; prepare time cards for payroll; coordinate pruchasing and payroll activities with Physical Plant administration; perform miscellaneous duties. Typing skill and ability to operate calculator required. High school graduation and at least three years of clerical experience also required. 40 hrs./wk., 7am-4pm preferred. B79-222 (5/2)

Sr. Clerk III in the Medical Dept's Health Plan Office to prepare and maintain mailing lists; record computer and other office data; emboss affiliate cards; type form letters and reports; xerox; file. Will also provide typing support and perform other clerical tasks as necessary. Good typing and organizational skills required. Office experience also required. B79-219 (5/2) so required. B79-219 (5/2)

Sr. Clerk III in the Student Loan Office to type all computer system and loan records; record loan payments; verify dollars received; prepare loan notes; assist borrowers in signing notes; batch completed loans for computer input; answer inquiries. Excellent typing and ability to operate adding machine required. Experience in correspondence typing also necessary. B79-218 (5/2)

Hourly Sr. Tech. in the Laboratory for Nuclear Science, Bates Linear Acceleator, Middleton, Ma., to troubleshoot, maintain and modify DC power supplies with a range from one megawatt down to a watts with current regulation from one part in 1,000 to 1 part in 100,000. Graduation from a 2-year day technical school required, as well as at least 2 years applicable experience. Applicants must be experienced with high power solid state components, feedback circuitry, integrated circuits, and solid state and mechanical relays. Proficiency in use of test equipment (oscilloscopes) also neces-sary. H78-184 (11/29)

Hourly Sr. Technician Electronic in the Nattional Magnet Laboratory to assemble, test and operate high power microwave hardware; transform advanced technical concepts into designs, prototypes and experimental systems; integrate microwave hardware into thermonuclear plasma experiment; direct technicians. Graduation from a 2-year day technical school or its equivalent, and at least 5 years microwave electronics experience required. Extensive experience in microwave measurements, trouble shooting, high voltage power supplies also required. H78-106 (7/26)

Hourly, Lab Asst, part-time, in the Clinical Research Center to receive, prepare, process and monitor collections of specimens; record data on computer bank; prepare reagents; perform related duties as necessary. High school graduate, or equivalent ability to handle detailed work with precision and to work independently required. A year's experience in a laboratory setting preferred. Position involves some weekend work. 20 hrs/wk.

Hourly, Press Operator, in Graphic Arts to operate a Multilith or Davidson press for a full range of projects; determine and obtain paper stock; mix inks; adjust equipment as required by nature of job; oversee quality of finished work. May perform operational maintenance on press and make minor repairs, and may assist in operation of larger pres-ses and other equipment. Graduation from high school and 3-4 years' applicable experience re-quired. Position requires the ability to work over-time when necessary. H79-65 (5/2)

Hourly, Technician (Mechanical), in the Mechanical Engineering Dept. to assist and/or par-ticipate in various research projects: interact with students and research staff; conduct mechanical properties testing; construct and maintain laboratory equipment. Graduation from a 2 year technical school or its equivalent, and at least 5 years experience in various phases of machining, working with plastic materials and 5 years experience required. Good interpersonal skills and ability to understand technical aspects of experialso necessary. H79-61 (5/2)

Hourly, Technician B, in the Research Laboratory of Electronics (Microstructures Lab) to fabricate fine (micrometer and smaller) pattersn using photo lithography x-ray lithography, laser holography, ion etching, plasma etching and chemical etching; operate and help maintain clean-room and vacuum apparatus. Graduation from a 2 year day technical school, or equivalent, ability to do precise work in a clean-room environment, and familiarity with simple chemical handling procedures required. H79-58 (5/2)

Hourly, Asst. Animal Technician, in the Division for Laboratory Animal Medicine to perform various duties related to care of laboratory animals: maintain food levels; clean cages; change litter and bedding; perform miscellaneous housekeeping functions and other duties as necessary. High school graduation, willingness to participate in formal training programs, and familiarity with animal care required. At least 1 year's animal care experience preferred. H79-74

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)
A78-67, Admin. Staff, Director of Systems Plan-

ning and Development, Information Processing Services (10/4) A79-4, Admin. Staff, Applications Programmer,

dmin. Computing Services (2/7) A79-9, Admin. Staff, Mechanical Engineering A79-11. Admin. Staff, Systems Programmer, In-

formation Processing Services (2/28)
A79-13, Admin. Staff, Alumni Regional Director (Southeast), Alumni Association (3/14) A79-15, Admin. Staff, Industrial Liaison Officer,

Industrial Liaison Program (3/21) A79-18, Admin. Staff, Business Manager, Dean for Student Affairs (5/2) A79-19, Admin. Staff, Sr. Applications Program-

mer, Information Processing Services (5/2) A79-20, Admin. Staff, Officer, Lab of Architecture and Planning (5/2)

SPONSORED RESEARCH STAFF: R77-53, Spons, Res. Staff, Res. Lab of Electronics (4/12)

Electronics (4/12)
R77-91, Spons. Res. Staff, Sr. Accelerator Physicist, Lab for Nuclear Science (5/18)
R77-137, Spons. Res. Staff, Experimental Physicist, Bates Linear Accel. (8/21)
R77-161, Spons. Res. Staff, Elec. Engineer, Mechanical Engineering (9/7)
R77-228, Spons. Res. Staff, Plasma Physicist, Res. Lab of Electronics (1/4)
R78-58, Spons. Res. Staff, National Magnet Lab (4/12)

R78-93, Spons. Res. Staff, Res. Engineer, Civil Engineering (5/10)
R78-103, Spons. Res. Staff, Lab for Nuclear Science (5/31)

Science (5/31)
R78-104, Spons. Res. Staff, Physicist, Temp,.
Lab for Nuclear Science (6/7)
R78-105, Spons. Res. Staff, Temp., Lab for
Nuclear Science (5/31)
R78-112, Spors. Proc. Sci. 77, Temp.

R78-117, Spons. Res. Staff, Temp., Economics R78-119, Spons. Res. Staff, Theoretical Plasma Physicist, National Magnet Lab (7/12) R78-135, Spons. Res. Staff, Research Lab of Electronics (7/26)

Electronics (7/26)
R78-145, Spons. Res. Staff, Electronics
Engineer, Lab for Computer Science (8/16)
R78-160, Spons. Res. Staff, Programmer, Center
for Space Research (8/30)

R78-161, Spons. Res. Staff, Engr. Asst., Center

for Material Science (8/30)

ior Material Science (8/30)
R78-168, Spons, Res. Staff, Programmer, Center for Space Research (8/30)
R78-207, Spons, Res. Staff, Applied Magnetism Research, National Magnet Lab (9/27)
R78-208, Spons, Res. Staff, Postdoctoral Research, Nuclear Materials, Nuclear Reactor (9/27)
R78-209

R78-209, Spons. Res. Staff, Postdoctoral Research, Nuclear Materials, Nuclear Reactor R78-217, Spons. Res. Staff, Research Associate,

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)
R78-250, Spons. Res. Staff, Research Associate Materials Science & Engineering (11/1)
R78-253, Spons. Res. Staff, Digital Engineer, Description of the Staff Staff Computer Staff Co

esearch Lab of Electronics (11/15) R78-268, Spons. Res. Staff, Tech. Asst., biology

(12/6)
R78-276. Spons. Res. Staff, Electron Microscopist, Center for Materials Science & Engineering (12/13)
R78-279. Spons. Res. Staff, Electron Microscopy Engineer, Material Science & Engineering (12/13)
R78-283. Spons. Res. Staff, Mechanical

Engineer, Lab for Nuclear Science (12/13) R78-284, R78-285, Spons. Res. Staff, Acceleator Physicist, Lab for Nuclear Science (12/13) R78-286, Spons. Res. Staff, Systems Program-

mer, Lab for Computer Science (12/13) R78-289, Spons. Res. Staff, Laboratory for Computer Science (12/13) R78-305, Spons. Res. Staff, Theoretical Plasma Physicist, Plasma Fusion Center (1/10) R78-306, 307, 308, Spons, Res, Staff, Laboratory

R78-301, 302, Spons. Res. Staff, Laboratory for Information and Decision Systems (1/10) R78-311, 312, Spons. Res. Staff, Lab for Com-puter Science (1/10) puter Science (1/10) R78-315, Spons. Res. Staff, Experimental Plasma Physicist, National Magnet Laboratory

R79-4, 5, 6, 7, 8, 9, 10, 11, Spons. Res. Staff, Postdoctoral Research, Center for Theoretical

R79-14, Spons. Res. Staff, superconducting magnet research, National Magnet Laboratory (1/24) R79-17, Spons. Res. Staff, Experimental

R/9-17, Spons. Res. Staff, Experimental Physics, National Magnet Lab (1/24) R79-19, Spons. Res. Staff, temporary, Center for Transportation Studies (1/24) R79-21, Spons. Res. Staff, Research Scientist, Energy Lab (1/24)

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)
R79-26, Spons. Res. Staff, Research Scientist/Engineer, Engergy Laboratory (2/14)
R79-27, 28, 29, Spons. Res. Staff, Transportation Systems, Center for Transportation Studies (2/14)
R79-38, Spons. Res. Staff, Policy Analyst R79-38, Spons. Res. Staff, Policy Analyst,

R79-55, Spons. Res. Staff, Research Scientisit/Engineer, Energy Lab (5/2)
R79-58, Spons. Res. Staff, Software Systems

Engineer, National Magnet Laboratory (4/11)
R79-63, Spons. Res. Staff, Programmer, pitime, Earth and Planetary Sciences (3/21)
R79-72, Spons. Res. Staff, Magnet Des
Engineer, National Magnet Laboratory (4/11) Spons. Res. Staff, Technical Asst., Biology (4/11) R79-75, R79 9-75, R79-76, Spons. Res. Staff, Research neer/Design Engineer, Energy Laboratory

R79-78, Spons. Res. Staff, Research Associate,

Propert of Nutrition and Food Science (4/11)
R79-79, Spons. Res. Staff, Technical Asst., Biology (4/11)
R79-83, Spons. Res. Staff, Scientific Programmer, Earth and Planetary Sciences (4/11)
R79-84, Spons. Res. Staff, Center for Cancer

R79-89, Spons. Res. Staff, Res. Assoc., Earth & Planetary (4/18) R79-90, Spons. Res. Staff, Tech. Asst., Center for Cancer Research (4/18)

R79-91, Spons. Res. Staff, Tech. Asst, Biology

(4/16) R79-92, Spons. Res. Staff, Res. Assoc., Materials Science & Engineering (4/18) R79-94, Spons. Res. Staff, Activities Coor-dinator, Clinical Research Center (4/18)

R79-95, Spons. Res. Staff, Scientific Program ner, Earth and Planetary Science (4/25) R79-97, Spons. Res. Staff, Technical Asst., Arteriosclerosis Center (4/25) R79-98, Spons. Res. Staff, Center for Cancer

R79-99, Spons. Res. Staff, Programmer, Energy

Lab (4/25) R79-100, Spons. Res. Staff, Associate Group Leader, Lab for Nuclear Science (4/25) R79-104, Spons. Res. Staff, Energy Lab (5/2) R79-105, Spons. Res. Staff, Research Associate, Meteorology Dept. (5/2)

C78-17, Acad. Staff, Research Associate (7/12) C78-26, Acad. Staff, Librarian, Head, OCLC/LC Cataloguing Section, Libraries (9/20) C78-38, Academic Staff, Asst. Rotch Librarian, Rotch Libary (1/10) C79-4, Academic Staff, Microbiologist, Division of Laborator Acide M. Alicies (1/10)

of Laboratory Animal Medicine (4/4)
C79-5, Academic Staff, Librarian, Rotch Library

C79-6, Academic Staff, Asst. Engineering Librarian, Engineering Library (4/25)

E78-35, Exempt, Tech. Supervisor, Physical Plant/Telecommunications (8/16) E79-2, Exempt, Foreman, Physical Plant (2/7)

E79-5, Exempt, Area Food Service Supervisor, Food Service (3/7)

tion Processing Services (4/11) E79-12. Exempt. Laboratory Manager, Aeronautics and Astronautics (5/2) E79-14. Exempt, Admin. Asst., Dean for Stu-dent Affairs Office (5/2)

B78-178, Sec. IV, Provost's Office, Upward Bound Program (10/11)

B78-573, Sec. V, Dept. of Material Science and

B78-658, Sec. IV, Lab for Nuclear Science (11/8) B78-693, Sec. IV, Center for Policy Alternatives

B78-755, Admin. Asst. V. Nuclear Engineering

B79-23, Sec. III/IV, Office of Sponsored

Programs (1/24) B79-50, Clerk IV, Energy Laboratory (2/14) B79-87, Sec. IV/V, Urban Studies and Planning

B79-110, Clerk Typist IV, Center for Space B79-125, Sec. IV, Nuclear Engineering (4/11) B79-125, Sec. III, National Magnet Laboratory

B79-133, Accounting Clerk III, National Magnet Laboratory (3/21) B79-150, Sec. IV, Technological Adaptation

B79-151, Sec. IV, Industrial Liaison Program

B79-152, Sec. III/IV, Materials Science and

Engineering (4/11)
B79-155, Payroll Clerk III, Comptroller's Accounting Office (4/11)
B79-163, Sec. III/IV, Undergraduate Physics Of-

B79-164, Sec. III/IV, part-time, temporary, Dean

for Student Affairs (4/11)
B79-165, Jr. Programmer V, Laboratory for Information and Decision Systems (4/11)
B79-167, Sec. III. Medical Dept (4/11)

B79-169, Tech. Asst. IV, Psychology Dept. (4/11) B79-172, Sec. IV, Mechanical Engineering (4/18) B79-178, Sec. IV, MIT/Wellesley Upward Bound Program (4/25)

B79-179, Sec. IV, Material Science and

B79-181, Sec. IV, National Magnet Laboratory

B79-183, Sec. IV, National Magnet Laboratory

B79-184, Sr. Clerk IV, Information Processing

Services (4/18) B79-185, Sec. III, Energy Lab (4/25) B79-186, Sec. III, Materials Science and Engineering (4/25)

Engineering (4/25)
B79-187, Sec. III, Physical Plant (4/25)
B79-188, Accounting Asst. V, Comptrollers Accounting Office (4/25)
B79-191, Sec. IV, Division for Study and Research in Education (4/25)

B79-192, Clerk/Typist III, Comptrollers Ac-ounting Office (4/25) B79-193, Admin. Asst. V, Political Science

B79-195, Tech. Asst. IV, Provost's Office (4/25) B79-196, Sec. IV/V, Division of Health Sciences

B79-196, Sec. IV, V. Division of Health Sciences and Technology (4/25)
B79-197, Sr. Clerk IV, Sloan School (4/25)
B79-199, Tech. Asst. V, Medical Dept. (5/2)
B79-202, Sec. IV, Office of the Chancellor (5/2)
B79-204, Sr. Clerk IV, Purchasing (5/2)
B79-205, Sec. IV, Methomatics (5/2)

B79-205, Sec. IV, Mathematics (5/2) B79-206, Sec. IV, Aeronautics and Astronautics

(5/2) B79-208, Tech. Asst. V, Psychology (5/2) B79-209, Sec. III/IV, Electrical Engineering and

B79-210, Sec. IV, Earth and Planetary Sciences

(2) B79-207, Sec. V, Architecture (5/2)

B79-194, Cashier III, Food Service (4/25)

E79-7, Exempt. Training Supervisor, Physical ant (2/28) E79-9, Exempt, Systems Programmer, Informa-

s. Res. Staff, Res. Assoc., Earth &

Research (4/11)

Research (4/25)

EXEMPT:

BIWEEKI V.

Program (4/4)

Engineering (4/18)

H79-68, H79-69, H79-70 H79-71, H79-72, Hour-

AARP To Hold **Annual Meeting** 

The annual meeting-a luncheon-of the MIT Cambridge chapter of the American Association of Retired Persons will be held Tuesday, May 22, at noon in the Student Center Mezzanine Lounge. Luncheon fee is \$3.75.

This is the first time the group has met during the daytime, Robert J. Radocchia, president of the chapter, noted, and said he hoped members who cannot attend evening meetings might be able to come to this one. Chief business of the meeting will be election of officers.

All meetings of the group are open to all members of the community who are 55 or older, whether or not they are still working. Annual dues for the chapter are \$2 per person or \$3 for member and spouse.

Mr. Radocchia also announced that a few spaces are still available on the second bus for the day trip to Mystic Seaport on Saturday, May 19. The cost, including lunch is \$18. Reservations may be made by calling x3-7914.

In lieu of the June meeting, the chapter plans a repeat performance of last year's very successful day trip to Bill Foster's Down East Clambake in York Harbor, Maine, on Saturday, June 30.

### **Geschwind Wins** Allied Award

Dr. Norman Geschwind, neurologist-in-chief at Beth Israel Hospital and James Jackson Putnam Professor of Neurology at Harvard Medical School, who also holds joint appointments as professor in the Harvard-MIT Division of Health Sciences and Technology and the MIT Department of Psychology, has received the 1979 Allied Professional Award made by the Massachusetts Psychological Association to someone outside the field of psychology for important contributions to psychological theory or practice.

Dr. Geschwind was co-author of a 1968 landmark paper showing observable anatomical differences between right and left sides of the brain, and presently is mapping regions of differing miscroscopic structure in the brain, concentrating on regions relating to language function.

### Student Show At Photo Gallery

Students of the MIT Creative Photography Laboratory, Starr Ockenga director, will present a show of recent works, "Silver Paper," May 9-26, at the Creative Photography Gallery in duPont Gymnasium.

A result of the spring semester's efforts, the show will feature a selection of student's work from all levels of experience and ability. Various approaches to the technique and creativity of photography will also be represented.

In addition to the work of beginning and intermediate students, the display will also include photographs by students in the advanced section, notably Marco Castaldo, Rudolf Martinez, Robb Moss, Jennifier Pieszak, Keith Thompson and Marek Zalewski, who have participated in the organization of this exhibition.

The gallery is open to the public Monday-Friday, 9am-10pm; Saturday, 10am-6pm; and Sunday, noon-8pm.

The following positions have been FILLED since the last issue of *Tech Talk*:

B78-518

Technical Typist IV B79-48 Sec. IV Acad. Staff Admin. Staff (Cancelled) E79-11 Exempt B79-130 Sr. Clerk III Sec. IV Admin. Asst. V B79-180 H79-45 Bus Person Admin. Staff

The following positions are on HOLD pending further decision Hourly

Hourly

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Energy Laboratory (2/28) R79-43, Spons. Res. Staff, Laboratory for Nuclear Science (2/16)

Computer Science (5/2)

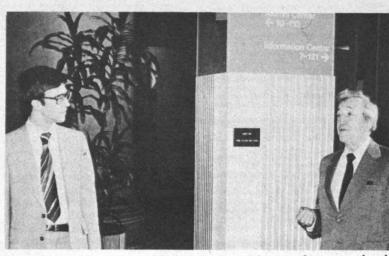
HOURLY H78-106, Hourly, Sr. Technician (Electronic), National Magnet Lab (8/16) H78-184, Hourly, Technician A, Lab for Nuclear H78-207, Hourly, Tech. A, Energy Laboratory

H79-24, Hourly, Bus Person, Faculty Club (5/2) H79-26, Hourly, Waiter/Waitress, Faculty Club

H79-33, Hourly, Technician A (Electronic), Chemistry (4/11) H79-34, Hourly, Technician A (Radio Protec-

H79-40, Hourly, Instrument Systems Worker, hysical Plant (4/11) H79-44, Hourly, Second Cook, Food Service

H79-70



James L. Bidigare, Jr., president of the Class of 1978 and now a regional coordinator for the MIT ALumni Association, formally presented the 1878 Class Gift, furnishings for the Rogers Lobby lounge area, to President Jerome B. Wiesner at a brief ceremony on Monday.

-Photo by Calvin Campbell

# Leadership Campaign Reaches \$205 M

(Continued from page 1)

interest and well-being, and the role of each in an overall national effort that seeks to balance the nation's short-term needs for technology with its long-term needs for the fruits of research in the basic sciences.

In describing Leadership Campaign progress thus far, Mr. Johnson said: "The Campaign is moving steadily toward success, but it is not over yet. The final year is our greatest challenge and the last \$20 million the hardest. The result so far achieved is a great tribute to the thousands upon thousands of alumni and friends worldwide whose dedication and efforts have made the campaign such a success thus far."

While some Campaign goals have been well supported, Mr. Johnson said, there still remain some unmet critical needs that require special efforts during the remaining year of the Campaign.

Endowed professorships are an example. The Campaign goal is for 50 endowed chairs, most of them at \$1 million each, and thus far, 31 chairs have been subscribed. Also not fully met are endowment funds for student aid, capital funds for additional student housing, a new athletics and special events center, and a special fund for support of faculty and facilities for the MIT School of Engineering.

"The School's enrollment continues to climb and faculty and facilities have been stretched to the breaking point," he said. "It is a tribute to all members of that School that its rating remains first in the nation. There is particular need for support for young faculty."

Mr. Johnson said the Leadership Campaign includes a more recent \$10 million goal for the School of Engineering of which only \$2 milion has thus far been subscibed.

Other areas where opportunities remain for new private support include the Alfred P. Sloan School of Management; new programs being launched in the brain sciences; new facilities for the creative arts; program support for research in energy technologies, management and policy; the Whitaker College of Health Sciences, Technology and Management; a new Program in Science, Technology and Society; and the Division for Study and Research in Education.

The Leadership Campaign was first announced at a meeting of the MIT Alumni Council in April 1975.

"We have come a long way together in this unprecedented undertaking," Mr. Johnson told Council members. "Members of the Corporation and Corporation Development Committee, those who serve on our Volunteer Leadership Appeal and National Business Commitee, and many more who are leaders and volunteers in the Alumni Fund and Alumni throughout the Association, have provided the direct and always encouraging personal support that has made our achievement to date possible. The thousands of alumni who have contributed so generously to the Alumni Fund have helped to provide the solid foundation on which all of these efforts have been built.

"Your enthusiasm, dedication, and loyalty have constantly encouraged all of us who serve us at the Institute. We thank you for what you have done. Together we can complete the task and bring the MIT Leadership Campaign to a truly triumphant conclusion."

# Yvonne Rainer To Present Lecture and Film

As part of a series of seminars on "Film as Medium," filmmaker Yvonne Rainer, a fellow at the MIT Center for Advanced Visual Studies, will present a lecture and film, Thursday May 10, at 7pm, at

Ms. Rainer will give a free, public screening of her first film, "Lives of Performers," made in 1972. She said the film has many qualities that her later works do not have. The soundtrack includes layers of experiential sound, juxtaposed on top of one another.

Born in San Francisco, Cal., Ms. Rainer attended San Francisco City College. She taught at the California Institute of Art, University of California in San Diego in 1975. She has been an instructor at the Whitney Museum of American Art in New York City, since 1973.

Ms. Rainer approaches film with an interest in narrative cinema, content and the interaction of text and image. She tends to concentrate on emotional difficulties, using surrealistic juxtaposition and humor to express her somewhat autobiographical interests and concerns.

## Early Music Society To Perform

The MIT Early Music Society, Tim Aarset director, will give its second annual Spring Concert of German Music, Thursday, May 10, at 8pm in the MIT Chapel.

This free, public concert is sponsored by the MIT Music Section, and will feature a vocal ensemble, soloists and instrumentalists—all gathered from the MIT community.

The program will include music for spring time, of the 1450-1550 vintage. Compositions by Oswald von Wolkenstein, Erasmus Lapicida, Arnolt Schlick, Heinrich Isaac, Paul Hofhaimer, Ludwig Senfl and others will show off the sounds of lutes, viols, recorders, krumhorns and shawms.

The Early Music Society has performed for neighboring audiences, such as the Boston Museum of Fine Arts, Boston College, Wellesley College and Brandeis University as well for MIT.

# Athletics Department Posts New Rates

The MIT Department of Athletics has announced a price increase and a new policy setting up two classifications of athletic user cards for faculty, staff, employees and alumni for use of Institute athletic facilities effective July 1.

There will be no increase in price of student athletic cards, according to Professor Ross H. Smith, Director of the MIT Department of Athletics.

But for faculty, staff, employees and alumni, he said, there will be, for the first time, two classifications of cards.

First, there will be a card limited to use by an individual at an annual fee of \$50 for faculty, staff and employees and \$90 for an alumnus of alumna.

Second, there will be a family card at an annual fee of \$75 for faculty, staff and employees and \$135 for alumni. The family card will extend use of athletic facilities to the card holder's spouse.

Individual card holders, family card holders and the spouses of family card holders have the privilege of using athletic facilities at hours that do not conflict with student physical education programs and with intercollegiate, intramural and club athletics. These, Professor Smith pointed out, are the primary uses to which the Institute athletic facilities are dedicated.

"The new schedule of fees is a move toward a more equitable charge for the use of the athletic facilities based on today's inflated costs and the information we have on utilization of the facilities by various groups within the MIT community," Professor Smith said.

As in previous years, Professor Smith said, children will be admitted during family swimming

## Sadoway Wins NSF Support

Dr. Donald R. Sadoway, assistant professor of materials science and engineering, has received a two-year, \$32,000 grant from the National Science Foundation for research on electrical properties of solid chloride electrolytes.

Professor Sadoway's grant was awarded under the NSF Engineering Research Initiation Grants Program to encourage young investigators to expand their work beyond that done for their doctorates. Professor Sadoway, who received the PhD degree in extractive metallurgy from the University of Toronto in 1977, was a NATO Postdoctoral Fellow at MIT during 1977-78 and joined the faculty last fall.

#### ACSR Hearing

The ACSR will hear views on members of the MIT Community on the questions of investment and divestment of securities of companies with operations in South Africa on Thursday, May 10, at 7:30pm in Rm 9-150.

For further information or to sign up in advance contact the Secretary of the Committee, Rm 5-208.

Minutes of the previous ACSR meetings are available on reserve in the Hayden, Dewey, and Student Center Libraries.

#### Harry Frankfurt To Speak Here

Dr. Harry Frankfurt, professor of philosophy at Yale University, will give the third lecture in the Human Knowledge series sponsored by the Department of Linguistics and Philosophy on Friday, May 11, at 4pm in Rm 4-231. Its title is, "Descartes and Spinoza, Two Motivations for Rationalism."

Professor Frankfurt is a renowned scholar on the rationalists, and has richly contributed to the understanding of problems of freedom of the will. His books include Demons, Dreamers and Madmen. hours at the Alumni Pool and during open hours at the ice rink, but with the introduction of two types of cards, use of those two facilities will be limited to the

Professor Smith asked that family card holders consult

children of those who hold family

schedules and rules that are posted at the pool and at the ice rink concerning use by children.

Professor Smith pointed out that the price increase for faculty, staff, employees and alumni is the first in two years. Following is a comparative summary of the new two-card policy and fees:

	Athletic Card Fees 1978-79		1979-80		
	Individual	Family	Individual	Family	
Student	\$ 5.00	included	\$ 5.00	included	
Faculty	40.00	included	50.00	\$ 75.00	
Staff/Employee	40.00	included	50.00	75.00	
Alumni	70.00	included	90.00	135.00	200

# Seven Women are Selected As Ida M. Green Fellows

Seven women, two of them MIT seniors, have been chosen Ida M. Green Fellows for 1979.

The Ida M. Green Fellowships were established by a gift of \$1 million from Cecil E. and Ida M. Green to be used primarily for the support of women beginning graduate work at MIT. The fellowships provide full tuition for the academic year plus stipends of \$350 per month for nine months. The new Green Fellows are:

Beth Doll of Patterson, N.C., is a senior in mechanical engineering at MIT and will continue in the SM program in that department. Ms. Doll, a member of Pi Tau Sigma, is a former General Motors Scholar. Her research interests lie in composite technology and in related areas of structural analysis and design.

Caroline G. Grant of Syracuse, N.Y., is a senior in mathematics at Queens University, Kingston, Ontario. Ms. Grant, an honors student in mathematics, will be working toward the PhD degree in mathematics at MIT.

Jean L. Januszkiewicz of Santa Clara, Calif., received the BS degree in quantitative business analysis from Pennsylvania State University in 1978. As an undergraduate, Ms. Janusckiewicz was an Evan Pugh Scholar, and recipient of the Wall Street Journal and the Alpha Kappa Psi Awards. She is a member of Phi Kappa Phi and Beta Gamma Sigma honor societies. At present she is production planner at Intel Corp. At MIT she plans to work toward her PhD at the Sloan School of Management.

Dorine J. Holsey of Berkeley, Calif., received the AB degree in architecture from the University of California, Berkeley, in March of this year. Her interests are in urban architecture, with emphasis on satisfaction of human needs in urban development. Ms. Holsey was Baird Scholar at the University of Arizona, and National Merit

Scholar of Alpha Kappa Alpha Sorority at Berkeley. She was also secretary and vice president of Alpha Kappa Alpha, and served as student representative to two faculty committees at Berkeley. At MIT she plans to work toward the M. Arch degree.

Ong Joo Hooi of Penang, Malaysia, is a senior in chemical engineering at MIT. Ms. Ong will be in the SM degree program in civil engineering, concentrating in the area of water resources. She plans ultimately to return to Malaysia and to become involved in the prevention or correction of problems arising from that country's drive toward industrialization.

Malka Rappaport of Brooklyn, N.Y., has the BA degree in linguistics from Brooklyn College. Ms. Rappaport was a member of the Scholars Program of Humanities at Brooklyn College and was elected to Phi Beta Kappa in her junior year. She will pursue graduate work toward the PhD degree in linguistics and philosophy at MIT.

Claire L. Skarda of Baltimore, Md., has the BS degree in chemistry from the College of Notre Dame of Maryland. Ms. Skarda is particularly interested in the analysis of the molecular structure and properties of ceramic materials. She plans to work toward the SM degree in ceramics and the PhD in materials science and ceramics.

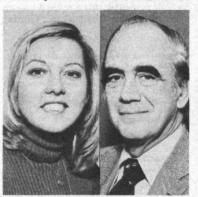
#### International Lunch

The International Lunch to Go (or to Stay) sponsored by the Technology Children's Center, will be held Friday, May 11, from 11:30am-2pm in the Bush Rm (10-105).

Parents will prepare food from around the world. Proceeds will benefit the program's scholarship fund.

## Technology Review Announces Two Changes In Business Staff

Two changes in the business staff of Technology Review, the appointment of Peter Gellatly as business manager and the promotion of Evelyn Milardo to circulation and promotion manager, have been announced by James A. Hester, publisher of the magazine.



Ms. Milardo Mr. Gellatly

The position of business manager is a new one at Technology Review, according to Dr. Hester, and will bring all business operations under Mr. Gellatly's direction. He will be in charge of advertising sales and representation, marketing and general control of income and costs.

As circulation and promotion manager, Ms. Milardo will direct

circulation promotion, subscription fulfillment, and magazine audit programs.

A graduate of Brown University, Mr. Gellatly became advertising for the Saturda Evening Post in the Cleveland area in 1955, and was later appointed Pittsburg sales manager. In 1965, he went to Newsweek magazine where he became successively Cleveland, New York and finally, national sales manager. Mr. Gellatly came to Boston in 1973 as publisher and treasurer of Hill Publications, Inc. Since 1976, he has been self-employed as a marketing consultant with emphasis on magazine publishing and communications.

Ms. Milardo joined Technology Review as circulation manager in 1977. Since that time its paid circulation has risen from 21,000 to almost 30,000.

A native of Australia, Ms. Milardo received the BA degree in art education from Alexander Mackie College in Paddington, NSW, in 1973. She has worked in public relations, advertising and design, both in Australia and the US. Before joining Technology Review, she was traffic co-ordinator at the DR Group, a direct mail advertising agency in Boston.

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