

Johnson, Speaking at Graduation, Says Change Demands Caring

President Howard W. Johnson told 1,240 seniors and graduate students at MIT's 105th commencement Friday that change in institutions such as schools, businesses, governments and churches will be effective only when men and women truly care about them as institutions.

Caring, he said, requires interest, compassion, concern, self-sacrifice, wisdom, tough-mindedness and discipline.

"The institution itself then must be the object of intense human care and cultivation," he said. "Even when it errs and stumbles, it must be cared for. And the burden must be borne by all who work for it, all who own it, all who are served by it, all who govern it—to care with somewhat the same response to its needs that one would give an individual person."

Society is suffering because its institutions fall short of what people expect from them with the resources they have and this is because "not enough people who influence their quality care. . ."

"Institutions are seen as instruments to be used and exploited," he said. "The result is just as corrupting to an institution as if the same treatment were accorded an individual person."

Universities, he said, could become the pace setters for social advance and he urged that MIT, through the people who care for it, become the leader in this.

"Beyond becoming an institution where all the constituencies care, where the search for truth is paramount, where compassion is part of principle, we should make this Institute where more...meaning can be extracted from experience," he said.

Mr. Johnson urged the graduates "to care in new ways for MIT and for the institutions where you live and work the rest of your life."

"The future of these institutions—and the world—will depend on that kind of personal caring on the part of each of you."

It was Mr. Johnson's last commencement as president. On

July 1, he will succeed Dr. James R. Killian, Jr., as Chairman of the Corporation, and Dr. Jerome B. Wiesner, now provost, will become president.

More than 3,000 persons, including parents, relatives and friends of graduates, filled Rockwell Cage for Friday's commencement. All told 1,423 degrees were conferred, since some graduates received more than one degree. They included 147 doctorate degrees, 72 engineer degrees, 429 masters' degrees and 775 bachelor's degrees.

Following commencement Friday, graduates gathered under tents on the Great Court for the annual President's Luncheon where Dean Irwin Sizer of the Graduate School presented Harry Manley Goodwin Medals for conspicuously effective teaching among young staff members to Woodie C. Flowers, a mechanical engineering instructor, and Lawrence E. Susskind, an instructor in urban planning. They were selected by students, faculty supervisors and co-workers. Cash awards of \$500 accompanied each medal.

Commencement activities began Thursday. Vice Admiral Edwin B. Hooper, official US Navy historian, was principal speaker at ROTC commissioning exercises for 14 Army, 11 Navy and 11 Air Force cadets. Later Thursday, Julian Bond, young black state legislator from Georgia, was the principal speaker at the annual commencement convocation.

Saturday and Sunday alumni classes as far back as 1921 held reunions on campus and at New England resorts. On Sunday evening and Monday, alumni from all classes gathered on campus for Homecoming Weekend. Panel programs dealing with science and public policy highlighted the homecoming program on Monday and speakers included Dr. Clarence Linder, president of the National Academy of Engineering, and Dr. Edward E. David, science advisor to President Nixon.

Two Named Associate Heads of EE

Dr. Paul E. Gray, dean of the School of Engineering, has announced the appointment of two associate heads of the Department of Electrical Engineering.

Professor Wilbur B. Davenport, Jr., will become associate head of the department for Electrical Science and Engineering.

Professor Robert M. Fano will become associate head of the department for Communications Science and Engineering.

Both men will serve with Professor Louis D. Smullin, head of the department, to coordinate academic programs and faculty development in the department simultaneously within the two broad subdivisions. All faculty appointments will continue to be made to the Department of Electrical Engineering as a whole. Flexibility within the department will permit faculty members to move from one area to the other and back again as their individual interests evolve.

The Department of Electrical Engineering is the largest department in the Institute. The appointment of Professors Davenport and Fano will strengthen its efforts in recognizing and evaluating the

educational processes within the subdivisions while retaining the unity of the department.

Dr. Davenport, a specialist in communications with experience in advanced systems, is a native of Philadelphia. He received the B.E.E. degree in 1941 from the Alabama Polytechnic Institute and the S.M. and Sc.D. from MIT in 1943 and 1950, respectively.

After serving in the Navy for three years, he returned to MIT in 1946 as an instructor of electrical engineering, and was appointed assistant professor in 1949. In 1951 Professor Davenport joined Lincoln Laboratory as leader of the Communications Techniques Group, becoming associate head of the Communications and Components Division in 1955. Two years later he was appointed head of the division and in 1958, became head of the newly-formed Information Processing Division.

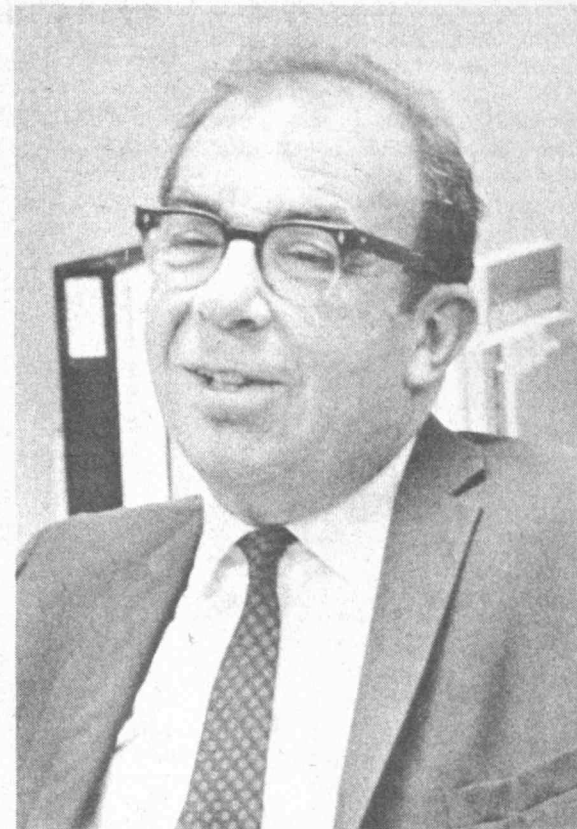
Dr. Davenport returned to the Institute as professor of electrical engineering in 1960. From 1960-63, he was associate director of RLE, and from 1963-63 assistant director of Lincoln. Since 1968 he has served as undergraduate academic officer of the department and chairman of

its undergraduate Educational Policy Committee.

Professor Fano, Ford Professor of Engineering, was the originator of MIT's Project MAC and served as its director from 1963 to 1968. A native of Torino, Italy, he completed part of his undergraduate study at its School of Engineering before coming to this country. He received the S.B. in 1941 and the Sc.D. in 1947 in electrical engineering from MIT.

During World War II, Professor Fano was a member of the Radiation Lab staff, working on microwave components and filters. From 1950-53 he was group leader of the Radar Techniques Group at Lincoln, and he has been a member of RLE since its formation in 1946.

Dr. Fano was appointed professor of electrical communications in 1956 and became Ford Professor in the School of Engineering in 1962, while maintaining his association with the Department of Electrical Engineering. He is the author of *Transmission of Information* and co-author of two textbooks on electromagnetic theory.



New associate heads of electrical engineering: Professor Davenport, left, and Professor Fano.

—Black Star, Ivan Massar.

Returning Alumni Present Class Gifts

Reunion gifts amounting to \$1,776,931 were announced by the 50, 40 and 25-year classes at the 1971 Alumni Homecoming Day luncheon Monday. The funds were raised by the three reunion classes over the past five years.

326 members of the Class of 1921 Celebrating their 50th anniversary reunion, contributed to a reunion gift of \$700,583. Not included in the gift, but separately announced, was that 43 members of the class have included the Institute in their

estate plans, which would result in MIT receiving more than an estimated \$985,000 in future years. The 1921 class gift was announced to alumni attending the luncheon by Irving Jakobson, vice president of the class and reunion gift chairman.

The class also gave a new shell for the rowing crew. It was the Class of 1921 that started crew as a varsity sport. The shell, called the *Class of 1921*, was unveiled by seven members who were in crew as undergraduates and was christened with champagne by the wives of two class officers.

The reunion gift for the Class of 1931 amounted to \$886,838, which

345 classmates contributed. This was the first class to graduate after Dr. Karl T. Compton became president and the class asked his widow, Mrs. Margaret Compton, to announce their gift to the luncheon. Mrs. Compton was accompanied to the rostrum by Howard L. Richardson, president of the class, and William Jacobs, reunion gift chairman.

The reunion gift by the 25-year Class of 1946 was \$189,510. That gift was achieved by the participation of 353 members of the class. James Craig, reunion gift chairman for the Class of 1946, reported the gift at the luncheon on behalf of his classmates.



Commencement is a proud and happy time, as this young graduate aptly demonstrates.
—Photo by Owen Franken, '70.

Corporation Elects New Members Including Five Recent Graduates

The Corporation elected eight new members Friday, re-elected two others to new terms, and voted present Chairman James R. Killian, Jr., a Life Member.

The eight include three prominent business leaders and alumni who were each elected to five-year terms and five young alumni who were elected to a new category of membership called Representatives from Recent Classes.

The formal election took place at a regular quarterly meeting of the Corporation before commencement exercises.

Dr. George W. Thorn, physician-in-chief at Peter Bent Brigham Hospital and Hersey Professor at the Harvard Medical School was re-elected to a five-year term. Re-elected an *ex officio* member was Paul V. Keyser, who serves on the Corporation as president of the Alumni Association, a post to which he was recently re-elected.

Dr. Killian has been Chairman of the Corporation since 1959 and will retire from that post on June 30.

The three business leaders and alumni who were elected to new five-year terms beginning July 1 are Paul M. Cook, '47, president of the Raychem Corporation, Menlo Park, Calif.; William S. Edgerly, '49 financial vice president of the Cabot Corporation, Boston; and Kenneth H. Olsen, '50, president of the Digital Equipment Corporation, Maynard, Mass.

The five young alumni, including two from this year's class, were nominated by their classmates and



Michael Sawyer and his mother, Mrs. Dorothy Graves, after his election to the Corporation.
—Photo by Bob Lyon

elected by the Corporation for specific staggered terms ranging from one to five years beginning with the next annual meeting of the Corporation on October 8.

Two of the five are young women: Pamela Whitman, '70, and Mrs. Christina Jansen, '63, who is now a graduate student in Metallurgy. Miss Whitman will serve a five-year term, Mrs. Jansen a three-year term. They are not the first women to be elected to the Corporation—Mrs. Philip Wagley, '47, was elected to a five-year term last year.

The two who are members of this year's class are Michael Sawyer, elected to a four-year term, and Laurence Storch, elected to a one-year term. Both are 21, but Mr. Storch is younger by a few weeks and thus becomes the youngest person ever to serve on the Corporation. Mr. Sawyer is the third black ever elected to the Corpora-

tion. The others are Jerome H. Holland, US ambassador to Sweden, elected in 1969, and the late Whitney M. Young, Jr., elected in 1970.

The fifth young alumnus is Dr. James Hester, '65, elected to a two-year term. He received his Ph.D in city planning from the Institute in 1970.

Graduate Program for Biomedical Engineers to Begin

The Committee on Graduate School Policy (CGSP) has approved the establishment of a graduate program in Biomedical Engineering.

The formal interdepartmental program is intended to co-ordinate all the new programs of study and research established recently, such as the Joint Harvard-MIT Program in Health Sciences and Technology. The Biomedical Engineering Committee (BMEC) consists of seven professors from various departments. BMEC chairman Professor Laurence Young of Aeronautics and Astronautics, Dr. Philip Drinker of the Harvard Medical School, Professor Gordon Brownell of Nuclear Engineering, Professor Robert Mann of Mechanical Engineering, Professor Edward Merrill of Chemical Engineering, Professor Robert Rose of Metallurgy and Professor William Siebert of Electrical Engineering have proposed both policy and subject material for graduate courses in Biomedical Engineering. According to the proposal:

The interdepartmental committee should not have authority for the initial evaluation and admission of graduate students to MIT—this authority, as well as the responsibility for formal registration, remains with the departments. However, the BMEC anticipates that students of the strength sought for this program would, with the support of the BMEC, have little difficulty in obtaining admission to one of the existing departments. Once admitted to a department and accepted into the program by the BMEC, control of the student's program would shift entirely to the BMEC as described above and in more detail below.

Most of the predoctoral students selected for the interdepartmental program by the BMEC would have undergraduate or master's degrees in engineering or physical sciences. A few may have degrees in biology or other fields, provided that their programs have included substantial training in mathematics and physical science. Most of the students admitted to the BMEC program would be initially admitted to MIT by and registered in the department corresponding most nearly to their undergraduate major. Thus, we anticipate that a few of the BME students may be registered in such departments as biology, nutri-

tion and food science, chemistry or physics rather than an engineering department. It is important to emphasize that we envision the proposed interdepartmental BME program as a relatively constraining one, suited primarily to that small group of graduate engineering students who have had biological or medical as well as engineering training in depth. We believe that for the bulk of BME students, separate programs tailor-made to their needs, as at present, will continue to be preferable.

All students admitted to the interdepartmental program in BME would be expected either to have had introductory courses in general biology and chemistry or to rectify these deficiencies during the first year of graduate study. The degree requirements would be specified by the interdepartmental committee. In general it is expected that most programs will consist of two equal parts:

a) graduate subjects providing both breadth and depth in some areas of engineering knowledge

b) subjects in the life sciences and bioengineering, including both biochemistry and human physiology in depth appropriate to the thesis area.

Each student would be asked to prepare a plan of studies early in his program for approval by the BMEC.

All students would be expected to complete early in their programs a master's thesis (or project of comparable depth if the student already has an SM degree). We consider such a thesis (or project) to be an integral part of the training program, providing a mechanism for bringing students and faculty together in the laboratory early in the program as well as preparation for the major research effort of the Ph.D. thesis. The Ph.D. thesis for all BME students would, of course, always combine engineering and life science knowledge and skills; it would often be carried out in cooperation with a medical school or hospital. On the average, we anticipate that the Ph.D. program in BME will require 4-5 years from the bachelor's degree.

Qualifying and general examinations for the doctorate in BME will be arranged individually by the BMEC for each student and will test his competence in both engineering and life science areas. The engineering component would often be a segment of the examinations required by the appropriate engineering department.

After reporting informally to the CGSP in the fall, the BMEC presented its formal proposal in March. The CGSP then appointed a subcommittee of six professors to examine the proposal in detail. The favorable report from subcommittee chairman Professor Whitman Richards of Psychology, Professor C. Forbes Dewey of Mechanical Engineering, Professor Bernard Gould of Biology, Professor John Stanbury of Nutrition and Food Science, and Professor Kenneth Stevens of Electrical Engineering led to the establishment of the program.

Dean Irwin Sizer of the Graduate School will soon appoint a Standing

Interdepartmental Committee to supervise doctoral programs in Biomedical Engineering. He has indicated that he will appoint certain originators of the proposal and two biomedical scientists to this committee.

Faculty Officers Step Down



Retiring faculty officers E. Neal Hartley, left, and William Ted Martin.
—Photo by Margo Foote.

Last Wednesday the faculty held its last meeting of the academic year. Reports were given by the Dean of the Graduate School and the Committee on Academic Performance on June graduate and undergraduate degrees. It was also the last meeting at which Professor William Ted Martin will serve as chairman of the faculty and Professor E. Neal Hartley will take minutes as secretary.

At the start of the meeting President Johnson paid a special tribute to the two outgoing officers. He cited their distinguished years of service to both the Institute and the faculty. Following the President's remarks the two men received a standing ovation from their colleagues.

Professor Martin has been chairman of the faculty for two years, during which time the faculty met more than the usual number of times. At a recent dinner meeting of the Committee on Educational Policy, of which he has also been chairman, Professor Martin was presented with a specially inscribed copy of *Pieces of the Action*, the most recent book by Dr. Vannevar Bush, honorary chairman of the Corporation. Next year Professor Martin will continue to lecture in freshman calculus.

Over the last five years Professor Hartley has taken, by his own count, "185 pages of single-spaced prose" minutes at 68 faculty meetings. He will continue working as Institute Archivist, in addition to teaching in the history section of the Department of Humanities.

Also stepping down is Professor Robert Halfman, who has served as first Associate Chairman of Faculty and deputy chairman of the CEP the past year. Next year he will continue to serve on the CEP as a representative from the School of Engineering.

Inflatable Shelter for Indoor Tennis is Gift of Alumnus

President Howard W. Johnson announced plans for the construction of the J.B. Carr Indoor Tennis Center at the Alumni Day luncheon Monday.

The building will provide the first year-round indoor tennis facility for students and other members of the community. It is a gift from J.B. Carr, '16, and his wife of Wilkes-Barre, Pennsylvania and Palm Beach, Florida and their son and daughter-in-law, Mr. and Mrs. David B. Carr of West Palm Beach, Florida.

"In establishing this center," Mr. Carr said, "my wife and I also wish to pay tribute to our other son, the late Jeffrey B. Carr."

"Our principal purpose in giving this new center is to advance the sport of tennis at the Institute," he said. "We wish to help remedy the existing inadequacies in tennis facilities as well as provide opportunities for play during rainy, windy, cold and snowy weather. I have played tennis for more than 60 years and regard it as a lifetime recreational activity contributing to good health, relaxation of business and professional tensions and long life. I am deeply interested in seeing this fine sport flourish at MIT."

In announcing the plans President Johnson said, "Such an addition to the Institute's athletic facilities will be welcome indeed. Tennis facilities are in short supply for all parts of the Institute's athletic program, but particularly so in the recreational program. Here the demand so greatly exceeds the availability that participation in tennis is restricted."

The Carr Tennis Center will be an air-supported, inflatable, "fail-safe" structure located on Briggs Athletic Field, near the duPont Athletic Center and adjacent to student residence halls along Memorial Drive. Covering four existing tennis courts, the building will be 212 feet long, 120 feet wide and 40 feet high. It will be white on the outside and on the upper level of the interior. In addition, a dark green band about 15 feet high around the lower portion of the inside will provide a high-visibility background for tennis. The courts will be covered with Uni-Turf, a resilient synthetic material approved by the US Lawn Tennis Association for championship play.

The Carr gift will also provide for the immediate construction of two outdoor courts, to be located adjacent to Westgate II, now under construction at the western end of the campus. It will also make possible later construction of two additional outdoor courts at some desirable location.

Construction of the Carr Tennis Center will begin in July and is expected to be completed in September.

June 10
through
June 18, 1971

Equal Opportunity Guidelines Extended

President Howard W. Johnson last week issued the following memorandum outlining an extension of the Institute's Affirmative Action Plan for Equal Employment Opportunity.

The M.I.T. Affirmative Action Plan was adopted in October, 1969 to carry out the recommendations of the Ad Hoc Task Force on Equal Employment Opportunity. The objective of the original plan was "to increase significantly the representation from minority groups, particularly blacks, among the student body and the employees of the Institute, and to extend to the disadvantaged of all races new opportunities to join the M.I.T. Community." The term "employees", as used in the plan applies to all categories of employment - faculty, administrative and research staff, and supervisory, office, and hourly employees.

An examination of results of Affirmative Action since 1969 show certain areas of progress, but generally the attempt to increase opportunities for minority employment and advancement at M.I.T. has not been fully satisfactory. Further, the original plan failed to emphasize equal opportunity for women. The purpose of this document is to remedy that deficiency and to set out policies and procedures aimed at making further and effective progress in redressing inequities and eliminating discrimination wherever it may occur. To this end, all supervisors at M.I.T. will be urged to give high priority to the Institute Plan for Affirmative Action.

Specifically, each academic and administrative department and each laboratory is requested to establish affirmative action goals and timetables and make the commitment to achieve them. While certain overall goals are being set for the Institute as a whole, the greatest effort must come from the departments in establishing internal goals that are ambitious, yet achievable. To establish a program having a high probability of success, the following actions are to be taken:

1. Each academic and administrative department head and laboratory director will be responsible for:

a. Developing a departmental Affirmative Action Plan, and submitting this plan, including proposed recruitment, training and development methods to the Chairman, Equal Opportunity Committee, by July 1, 1971. This plan should include goals and timetables for the hiring or upgrading of women and minority employees which take into account estimates of faculty and other personnel requirements over the next two years.

b. Recording all activities involving recruitment and hiring of women and minority candidates for positions, i.e.,

the specific recruitment efforts undertaken, numbers interviewed or considered, rejections with reasons, and numbers employed. Copies of this record should be sent quarterly to the Chairman, Equal Opportunity Committee.

Assistance to departments in carrying out these responsibilities will be furnished through the office of the Vice President, Administration and Personnel whom I have asked to coordinate this extension of the Affirmative Action Plan. More detailed procedures will soon be available from his office.

2. In the appointment and promotion of women and minority group members to faculty and other academic staff positions, the following policies will apply:

a. There will be full opportunity for staff appointments, including tenure appointments on the faculty, of women who may be able to devote only part of their time to their academic staff duties during their child-rearing period.

b. The advice and assistance of women and minority members of the academic staff should be sought in recruiting and selecting candidates for these positions.

c. Prior to making any new academic staff appointments each year, department heads are expected to demonstrate to the Equal Opportunity Task Force on Faculty and Staff that a serious search for qualified women and minority candidates has been made.

3. In the appointment and promotion of administrative and D.S.R. staff and supervisory, office and hourly employees, the following policies and procedures will apply:

a. All requests for employment, whether for replacement or increased personnel requirements, will be submitted to the Office of Personnel Relations prior to any offer of employment.

b. The Office of Personnel Relations will explore and attempt to determine the most effective ways of bringing vacancies to the attention of qualified and potentially interested employees of the Institute so they may be encouraged to apply.

c. The Office of Personnel Relations will establish an inventory of employee skills and qualifications in order that opportunity for career advancement may be made available to all employees. Included in this inventory will be employees who have been identified as not effectively utilized in relation to their qualifications, who have re-

quested transfer, or who have received layoff notices. This inventory will be the primary source of filling vacancies before outside hiring or advertising is attempted. Special consideration, based on work experience and seniority, will be given to qualified women and minority employees in filling these vacancies. The procedures in this document are not intended to require a delay in filling a department or laboratory position which would seriously hamper its operation.

d. To assist in the above actions, each department will submit a report to the Office of Personnel Relations of its women and minority employees who appear not to be effectively utilized in relation to their qualifications, stating future prospects for promotion, based on manpower needs and expected attrition.

e. All minority employees, and to the extent possible all terminating women employees, will be interviewed by representatives of the Office of Personnel Relations immediately following their two-week notification to the department that they are leaving the Institute. When the interview discloses that terminating employees wish to remain in another work situation, they will be given priority consideration in filling existing or upcoming vacancies for which they may qualify. The Opportunity Development Officer will write to all minority employees who resign in an effort to isolate problem areas and to draw on past employees' suggestions to improve our retention of minority employees.

4. In the patterns of compensation, the following policies will apply:

a. It is the intention of the Institute to have salary equity between men and women employees having the same qualifications, responsibilities and performance in the same rank or job classification. It will be the responsibility of the department or laboratory head to review the data and initiate adjustments where necessary.

b. In stances where husband and wife are both employed at the Institute, the fact of one's employment shall not influence decisions with respect to the rank, classification or compensation of the other.

5. a. Any employee who feels that M.I.T.'s stated policy of non-discrimination has been violated and that he or she has been discriminated against should have access to a clear means of seeking redress. Such persons should be en-

(Continued on page 4.)

MIT Club Notes

Baker House SPAZ Jogging Club+
Jogging around BU and Harvard Bridges.
Daily, 10:45 pm. Baker House, Second Floor West.

Outing Club+
Thursday, June 10; Monday, June 14; Thursday, June 17; 5 pm. Student Center, Room 473.

Science Fiction Society+
Friday, June 11; Friday, June 18; 5 pm. Spofford Room, 1-236.

Friday Afternoon Club
Friday, June 11; Friday, June 18; 5:30 pm. Ashdown House, Games Room. Men \$1; women free.

Pot Luck Coffee House+
Friday, June 11; Saturday, June 12; Friday, June 18; 8:30 pm. Student Center, Mezzanine Lounge.

MIT-DL Duplicate Bridge Club++
Tuesday, June 15, 6 pm. Walker Memorial, Blue Room.

Dance

Modern Dance Classes++
Intermediate-Advanced
Thursday, June 10, 5:30 pm. McCormick Gym.

Israeli Folk Dancing+
MIT Folk Dance Club.
Every Thursday; party last week of each month.
7:30 pm, Student Center, Room 407. For information call Robert Donaghey, 868-8810.

Friday Afternoon Dance Break+
MIT Folk Dance Club
International Folk Dancing in the Great Court.
Every Friday, 12 - 1 p.m.

Dance Development Class++
Friday, June 11; Monday, June 14; Wednesday, June 16; Friday, June 18; 5:15 pm. McCormick Gym.

International Folk Dancing+
MIT Folk Dancing Club
Sunday, June 13, 7:30 pm. Student Center, Sala de Puerto Rico.

Balkan Dancing+
MIT Folk Dance Club
Basic, Intermediate, Advance.
Every Tuesday; party first week of each month.
7:30 pm. Student Center, Room 407. For more information call Jane Wieman, 876-5609.

Square Dance Club+
For information call x6213
Tuesday, June 15, 8 pm. Student Center, Room 491.

Modern Dance Classes++
Intermediate-Advanced
Thursday, June 17, 5:30 pm. McCormick Gym.

Exhibitions

Seymour Lipton: Recent Sculpture+
20 sculptures from the past five years, of nickel, silver or bronze on Monel metal. Sponsored by the MIT Committee on the Visual Arts, courtesy of Marlborough Gallery, NY. Drawings by Seymour Lipton are on exhibit in the Hayden Lobby.
1-5 pm daily through the summer. Hayden Gallery and Courtyard, through September 19.

Steamboat Design+
Details of Robert Fulton's steamboat "North River" and other early American steamboats. Hart Nautical Museum, Building 5, First Floor, through June.

Deep-Ocean Mining+
Material from Sea Grant Project Office.

Hart Nautical Museum, Building 5, First Floor, through June.

Main Corridor Exhibitions+
Presented by students and departments.
Buildings 7, 3, 4, 8.

Athletics

Rugby Club Practice+
Thursday, June 10; Tuesday, June 15; Thursday, June 17; 5 pm. Briggs Field.

Religious Services and Activities

Christian Bible Discussion Group+
For details contact Professor Schimmel, x6739.
Thursday, June 10, 12:15 pm. Room 20B-031.

MIT Hillel Religious Service
Friday, June 11, 7:30 pm. MIT Chapel.
Saturday, June 12, 9 am. MIT Chapel.

Roman Catholic Mass
Sunday, June 13, 11 am. MIT Chapel.

Christian Bible Discussion Group+
For details contact Professor Schimmel, x6739.
Thursday, June 17, 12:15 pm. Room 20B-031.

MIT Hillel Religious Service
Friday, June 18, 7:30 pm. MIT Chapel.

The Chapel is open for private meditation from 7:30 am to 11 pm every day.

Don't Forget

Membership certificates for those initiated this year have now been received from the Society of the Sigma Xi headquarters. Please collect your certificate from the Office of Professor Garg, Room 3-453, x6234.

The Technology Nursery School is now accepting applications for next fall. Please contact Jesse Davies 491-3634 for information. The Nursery School will also provide a kindergarten five afternoons per week. For information, call Allison Huey 547-3242.

Additions and corrections received too late to be included in this edition are listed in the INSTITUTE CALENDAR section of the bulletin board in the lobby of Building 7.

+Open to the Public
++Open to the MIT Community Only
+++Open to Members Only
++++Freshmen interested in departmental program encourage to attend.

Send notices for the week of June 17 through 25 to Mrs. Alice Tripp, Calendar Editor, Room 5-122, Ext. 1766, by noon on Friday, June 11.

CLASSIFIED ADS

Opportunity...

(Continued from page 3.)

couraged to communicate, either in writing or in person, with Mr. James C. Allison, Jr., the M.I.T. Opportunity Development Officer, or with Dean Benson R. Snyder, Chairman of the Institute's Equal Opportunity Committee. Either will initiate an inquiry into all the facts relevant to the issue and will attempt to resolve the matter to the satisfaction of both the aggrieved individual and the person or organization against which the charge of discrimination has been brought. If resolution is not possible, the matter will be referred to the President.

b. This process will be held confidential insofar as the aggrieved person wishes it to be so. It is expected that any person who feels discriminated against will have sought to resolve his or her complaint with the appropriate supervisors within the department, and with the assistance of the Personnel Office representative before bringing the complaint to the attention of the Opportunity Development Officer or the Chairman of the Equal Opportunity Committee.

6. It is expected that a conscientious effort to meet the equal opportunity objectives will necessarily require an increased coordination between all departments at M.I.T. and the Office of Personnel Relations and the Opportunity Development Officer. The Office of Personnel Relations has a continuing responsibility to make recommendations that will further the non-discriminatory policy of the Institute. It has the continuing duty to refer to departments women and minority group members who may be qualified for particular openings, as they arise. Similarly, the Opportunity Development Officer is expected to monitor Affirmative Action Plan progress and to bring to the attention of department heads and other senior members of the administration both lack of progress and significant achievements.

Reports Available

The Information Office (Room 7-111) now has these publications available:

A list of all freshmen admitted to the Class of 1975, with home addresses,

A volume of transcripts of remarks made before the Commission on MIT Education by such speakers as Corporation Chairman James R. Killian, Jr., Provost and President-elect Jerome Wiesner, Dean of Engineering and Chancellor-elect Paul Gray and Dean for Institute Relations Benson Snyder.

Instant Boston, a pamphlet guide to the city, which includes several maps and a guide to restaurants.

For Sale, Etc.

Voice of Music tape recdr w aux amp & spkr. \$260 new, now \$100. John, x3955.

Kittens, 3, born Easter Sunday, 4 gray & wht, tiger striped. x2874.

Moving: new color TV, 20", \$195; new green LR sofa, orig \$700, now \$250; misc frpl access, new, various prices; new tweed Danish sofa can convert to bed, \$65; rocking chr \$8; other hshold furn. Call 484-8325 evgs.

Moving: Westingsh oven-roaster \$25, stand \$10; wht util tbl nds paint \$5; uphol floral print platform rocker \$15; invalid equip, step stool w long steel handle, unused, \$12; wht bathtub seat \$7. Mary, x7361 Linc.

Air cond, 5000 BTU, \$75. Call 776-7741.

Olympia port typewrtr; sliderules: Post-Versalog, K&E Dec-i-lon, best offers. Call 491-4012.

V gd baby grand piano, just recond. Call 944-3860.

Stenorette Embassy dictating mach, lk new, orig \$220, asking \$75. Call 734-9425.

Sofa \$30. Jacob, x2066 or 491-5732 evgs.

Nikkorex 35mm s l r camera w telephoto & wide angle adaptors, built in light meter, \$80 complete. x7034 or 492-1831.

Old set of golf clubs, \$10. Dick, x4627.

AR 4X spkrs, 2, \$85; AR trmtbl w \$60 list ADC cart, & dust cover, \$80, both components 5 mos old. Larry, 354-7060.

Stereo, 80w, w recrd chng, AM-FM stereo & (2) 10" mahog spkr sys. Call 354-1021.

Gas refrig, late mod. W. Derry, x2776.

Boat mooring for rent, Gloucester Harbor, July & Aug, \$80. Call 862-9462 or 862-7484.

Ethan Allen maple spoonfoot harvest tbl, 66x22. Call 868-3078 evgs.

Furn, 9 mos old; king sz bed, \$70; 16" TV, \$70; Kit tbl w 2 chrs, \$50; man's bicycle, English, 3 spd, \$25; porter-crib, \$10. Andre, x2280, before 6-17 or 354-0848.

Lrg office dsk, wd; dbl bed, complete, both for \$50. Walt, x6235.

Teac-A-1200 U tape deck, lk new, 6 mos guar remaining, \$250. Chip, x1587 or 787-5137 evgs.

Free: 2 yr old f cat, spayed. Bernie, x7670.

Bundy slide trombone, lk new. David Webber, x466 Linc.

Free: 6' long Danish sofa, seat nds recovering, turns into snl bed, mod style, struc sound. Call 864-3753 evgs.

Bar bell w 50 lb of weights, \$5. Bill, x4956.

Refrig & misc hshold items. Call 484-3148.

Irish setter pups, champ stock, AKC. x4652 or 332-0194.

Peugeot 10 spd racing bike, 1 mo. old, lk new, wht. Charles, 262-6664.

Wdn potty chr \$6; wdn high chr \$13; infant seat \$1.50; maternity clothes inc long gown & matching coat \$8; for 2 pieces; crib matt \$4; layette: mother-in-law crib, nds wrk, \$3.50; designer clothes inc long wht peasant dress orig \$200 now \$19; clothes from the 40's. Call 484-9729.

Snows, 2, studded, 6.95x14, used 1 seas, \$30 or best; Zenith TV 23", console, \$30. Alam x7020.

Guild Starfire elec guitar, new cond, \$350. Bob, x561 Draper 7.

Great Dane, v loveable, m, 2 yrs old, has papers, pedigree, around \$225. Elaine, x5495.

Lady's English 3 spd bike, ex cond, \$35. Call 492-5867.

Harmony guitar, 6 string nylon, Spanish style for beginner, free capo & beginner's book, asking \$25. Call 648-6397.

Wilson Tony Trabert tennis racket, x5528 or 322-1086 evgs.

Red rug 8 1/2 x 11 1/2, \$10; maple dining-dsk-kit tbl, \$25; bx spring & matt, narrow width, gd for studio couch, \$20. Call 547-2748.

Prof. Santa Claus, avail yr round. Jim Lopez, x443 Linc or 372-5295 Haverhill.

Free: 3 adorable kittens. Alice, 862-4674.

Pampers, 2 boxes, 30 ea, 90 cents; Pagoda bird cage \$8; wdn dsk chr \$10; 3 stacked tbls \$15; playpen \$5; all items exc cond. Call 868-4640.

Bell & Hwl 8 mm movie camera, zoom lens & elec eye, Kodak, self threading movie proj, carrying case & screen, \$170 or best offer. Doug, 5528 Linc.

Westingsh dishwashr, 4 yrs old, \$50. x7813 or 491-0970 evgs.

Tech Flying Club membership. Mike, x7378 Linc or 275-8960 evgs.

Lrg red couch; patio chr; bed-frame; 2 floor lamps, best offers. Bart, x1965 or 739-1123.

Tyrol man's ski boots, lace, sz 12M, 940 new, best offer. Call 354-5616.

Free kittens, gentle, affec, half siamese, raised w children. Call 369-5285.

Classical guitar & 12 string guitar \$50 ea. Call 862-6782 evgs.

Elec stove \$5; gas stove \$10; refrig \$10; refrig \$15. x2325.

Wool rug, beige w pad 9'x12', \$50; pr of armchrs, rust tweed, \$300. David, x6656 or 868-9614.

Older Admir refrig, 6-7 yrs old, \$40, wrks frine; 2 calico f kittens, 1 shrt hair, 1 long hair, 7 mos old, free to gd homes. John Vivian, x7286 or 646-3639 evgs.

Wash mach, 6 mos old Hoover port, ex cond, \$75 or best offer. Call 492-2344.

Vehicles

Dune buggy, Corvaire eng, top w windows, carpet, \$1895. Barbara, x7755 Linc.

'62 VW, perf mech cond, ultra reliable, 64K, \$150. S. Bernstein, x5842 Linc or 862-5408.

'62 Classic Mercedes Benz, 300D, 4 dr sedan, limosine type sunfr, 4 spd trans, newly rebuilt eng, new tires, exec cond. Call 296-6542.

'63 Chevy Impala conv, 409 eng, 5 br new tires, Delta Super wide treads, \$325 or best offer. Call 322-1054 from 4-7 pm.

'63 VW sunfr, new tires & batt, R&H, \$450. x1675.

'63 Ford, V-8, stndrd, R&H, 66K, best offer. x7779 Linc.

'65 Chevy Belaire sta wgn, V-8, R&H, pwr st, pwr rear window, 58K, exc tires, studded snows on back, \$650. x269 Linc or 275-8092.

'65 Chevy Impala conv, auto, 6 cyl, pwr st, gd cond, \$850. Call 232-0965 evgs.

'65 Dodge Sports van, rebuilt auto trans, gd cond, best offer. Den, x2420.

'65 Internat Harvester Travelall, 6 cyl, 4 spd trans, high mileage but sturdy, \$400. x5782 Linc.

'66 Dodge Dart sta wgn, R&H, xtra snows, v gd cond, \$440. Call 862-9462.

'66 Plymouth Sports Fury, buckets, pwr st, \$800. Bill, x4479.

'67 Austin American, 25K, R, v gd cond, orig owner, \$500 or best. Tony, x7177.

'68 Buick LeSabre, 4 dr, Call 762-4143.

'69 Citroen DS 21, pallas sedan, citromatic, R, \$2350. x5170 or 369-6014.

'69 Peugeot 404, 4 dr, 11K, R&H, \$1900. x4305 or 491-1272 evgs.

'70 VW sedan, 1600 ccm, 30K, w sunfr, & R (FM-AM-CM), v gd cond, \$1450 or best offer, avail end of Aug. Lothar, x4710.

'70 Buick Skylark, 4K, mint cond, 4 dr. x7752.

'71 Volvo, 2 dr, stndrd, 6 mos old, going overseas. Call 244-4339.

'66 Yamaha 305 cc, exc cond. Call 227-1624.

'67 Bridgestone motorcycle, 175 cc, exc cond, \$295. E. Palmer, x5443 Linc.

'69 Super Triumph Bonneville, 10 1/2 to 1, ravesi cams, balance crank, ceriani frnt end, cobra seat, revs to 8500, looks & goes lk dynamite, \$1500. Call 862-3515.

'70 Honda CL 175 Scrambler. Call 244-6977.

Aqua Cat, 12' sailing catamaran, wht fibergls hulls, dacron deck, leg sail, spray shield, \$650 or best offer. Mike, x6762.

Fibergls canoe, 2 seater, 2 paddle, \$125. Frank Dufault, x2213.

Wildcat trailer, 15' cab-over sleeps 7, 3 burner stove, lighted vent hood, pressurized water sys, frig, all scotch guard uphol, 3 lighting sys, canopy, hitch w hood & sway bars, many xtras, exc cond. Charles Ellis, 782-1164.

Housing

N. Hampton, NH, 4 rms, lrg porch, country setting, 10 mi to beach, 1 hr 20 min from Boston, 6 acres fields, new heating sys, \$18,000. Call 491-0015 evgs.

Woburn, spacious mod ranch, 3BR, eat in K, formal DR w deck, frpl LR, playrm, garage, \$30.9. Call 933-6741.

Ads may be telephoned to Ext. 2707 or mailed to Room 5-122. Ads must include full name and extension or room number. Ads are limited to one per person per issue and may not be repeated in successive issues. The ad deadline is 5 pm, Wednesday.

Arl apt, avail 7-1, 3BR, frpl, LR, DR, dish & disp, garage, yard, \$295-mo. Jim, 646-5319 evgs.

Brookline apt, 7 rms, 4BR, 1 1/2 B, heated, rear porch, elec K, 5 min from MIT, \$325, avail 8-1, wl accept family. Call 277-5840 evgs.

Camb, 2BR apt, quiet, mod, trees & grass, 15 min walk to MIT, gd neighbhd, no lease req, \$170-mo. Call 492-4778 after 7-1.

Camb summer sublet w Sept option, 1BR, nicely furn, nr MIT, avail 7-1. Call 354-7240.

Camb summer sublet 6-15 w option for fall, close to Harv Sq, 1BR, furn, all util, \$160, backyard, nice quiet neighbhd. Call 14 Ellsworth Park, 354-7542 evgs.

Beacon Hill sublet, 1BR, river view, 6-15 to 8-31 w option, \$185-mo. Jessica, x5695.

Furn summer sublet during July, 5 min walk to Harv Sq, 3 rms, 2BR, porch, \$150; also furn 6 1/2 rm apt, elegant twnhouse, Brookline, 10 min dr to Harv Sq, for July & Aug w option, \$285. Call 731-0320 or 868-3273.

Summer sublet, July thru Aug, own rm, share K & B, furn, gd view, in Westgate, \$75-mo, share w tenant, wife on holiday. x7904.

Green River, VT, Aug vacation rental, A-frame, swimming, Marlboro music. x7146 or 354-2691.

Lk Winnepesaukee rental, w frpl, secluded yet use of priv recreational facil such as pool, beach, tennis, club. x6415.

Lk Winnepesaukee rentals on lake, mod, heated. Call 603-293-4455 Laconia, NH.

Wht Mt cabin, secluded, on Saco River in Bartlett, NH, all conv, \$75-wk. x4823 or 527-0882.

Wanted

Rmmate to share house in Camb w 2 others, 6-10 thru 9-11, 10 min walk from MIT, frpl, backyard, study, 2LR, K, own BR, ample parking, \$90-mo. or less, inc util. Call 354-8090.

Male rmmate for summer, walk to MIT & Harv, 1 block from Inman Sq, \$75-mo, 5 BR apt for 4. Call 864-0454.

Fem rmmate to share apt in Lowell, \$57-mo. Rosemary, x661 Linc.

Physics student to correspond w Indian physicist, age 30. For address call Stevenson, x5543.

Empty warehouse or garage, for storage, wl pay reas rent. Peggy, x1757 or 599-4898 evgs.

Rmmate, lrg beautiful furn apt, betw Harv & Inman Sqs, own rm, \$100. Call 547-9852.

Rmmate, to share house in Washington, DC, w 2 Harv, 1 MIT grad students, exc furnished, air cond, gd loc, for the summer June-Sept, \$75 per mo. Tom Wood, 498-5551.

Rmmates (2) to share furn Camb, Cent Sq, 4BR apt, ww carpet, air cond, dishwshr, avail 6-1 w option to lease in Sept, \$80-mo ea. Paul, x2359 or 868-4260 evgs.

Fem rmmate for July - Sept 1 & after, share 2BR apt, w 2 other girls in Brighton, on bus line \$75-mo plus util. Eleanor, x1453 or 782-2819 evgs.

Dry barn or lrg garage space to rent for furniture storage, from 6-25 to 8-15. Susan, 272-5719.

Hay tedder. Carl Benner, x2250.

Commuting ride to and from Medfield for student w summer job at MIT. Joanne, x2422 or 359-2668 evgs.

Someone to drive my car to Miami after 6-15. x6679 or 244-3269.

Fem rmmate for summer, mod apt, close to MIT. Louise, x4337 or 491-7773 evgs.

Smokers who want to quit, rough but effective method wl be expalined at a mtg, Fri, June 11, 5 pm, Room 20C-221, method takes 1 wk. Info Call Dr. Green, x5304.

Junk English bicycles & parts, reas prices. Call 782-3734.

Man's bike. Ron, x6379 or x4749.

Rmmate, own rm, furn, 5 min from MIT, \$63.25 mo. Peter, x5768 or 868-5608 evgs.

Apt, 2BR, unfurn, nr MIT, for 1 yr. Geosta, x7811.

Used women's 3 or 5 spd bicycle. Kathy Dwyer, 726-3923.

Miscellaneous

Wl do babysitting in my home in Somervi, Mon-Fri, anytime, have children 2 1/2 & 1 1/2. x5150 or 776-2647 after 8 pm.

Irish MAT seeks job for July & Aug teaching typing, receptionists, interviewing, exper, have wrk visa under cultural exchange prog. Willie McCarter, x4935.

Wl type theses, or gen & tech typing on IBM Selec. Liz, x6724.

Wl do typing. x2360.

Mother wl babysit in her home in Camb anytime, infants or up to 2 yrs. Call 661-8744.

Am offering full time day care for preschoolers, 2-5 yrs, at Lex residence nr Rt 2, exc care at reas cost. Mrs. Tocci, 862-2420 or Dan, x2413.

Join study tour to Japan 8-15 to 9-11, organized by MIT+Harv members; also earn \$35 for every person you can get to sign up on our tour. Dave Williams, 492-7555 evgs.

Fast, accurate tech typist wl do manuscript, term paper & gen typing; graphs, charts & LeRoy lettering done also. Dee, x6838.

Lost and Found

Found: sunglasses, curved type, tan lthr case, left in 37-351. x7543.

Swing Your Partner

Tuesday evenings Room 491 in the Student Center is devoted to squares--square dancing couples, that is.

A group called the Tech Squares is reviving this lively form of dance. Square dancing is a constantly changing form. The simple patterns that the over-thirty generation may remember are giving way as new calls are continually being invented.

To encourage wider participation, the Tech Squares are offering an intensive series of lessons that will make advanced dancers out of beginners after eight sessions. The second and fourth Tuesdays of each month will be given over to beginners; the other Tuesdays will be restricted to advanced, or club level, dancing.

Dancing sessions begin at 8 p.m. Admission is free to observers and to first-time beginners. For regular attenders there is a one-dollar fee which goes to pay the caller.

TECH TALK

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