

MIT 50-Year Class of 1923 Announces Record Gift Of \$8,098,300, Future Contributions of \$9,563,000

The MIT Class of 1923 contributed a record \$8,098,300 as its 50th year gift, over \$7,000,000 more than any previous 50-year class gift, it was announced Monday (June 4) at the Alumni Day luncheon.

In addition, 34 members of the class made plans for future gifts to MIT, estimated to have a current value totalling \$9,563,000, also a record.

Gifts also were announced by classes celebrating their 40th and 25th anniversary reunions.

The three reunion classes raised the funds over the past five years. Their total amount—\$9,512,231—also was a record by a wide margin because of the large 50th year gift.

The contributions provide funds both for special purposes—such as scholarships, professorships and facilities—and for unrestricted purposes.

David W. Skinner of Waban, Mass., gift chairman for the 50-year Class of 1923, said that 328 members of the class had contributed to the \$8,098,300 50th-year gift. The largest previous gift of \$909,000 was given in 1972 by the 50-year Class of 1922.

The 40th year gift from the 345 members of the Class of 1933 was \$816,371, which exceeded a goal of \$660,000. The gift was announced by Ellis C. Littmann of St. Louis, the class gift chairman.

Jack C. Page of Dallas, Tex., gift chairman for the

Class of 1948, which was the largest graduating class in MIT history, announced that 678 class members had contributed to a 25th-year gift of \$597,560.

In his remarks, Mr. Skinner noted that members of the Class of 1923 or their families also had helped make possible over the years the construction of three buildings—the Center for Earth Sciences (the Cecil and Ida Green Building), the Center for Life Sciences (the Uncas A. and Helen F. Whitaker Building) and the newly-dedicated Tang Residence Hall named for Ping Yuan Tang.

Mr. Skinner also noted that the class had given MIT its first dean of humanities and social sciences, John Burchard, and its 11th president, Julius A. Stratton. Dr.

(Continued on page 2)



MIT's 24-story graduate student residence on West Campus has been dedicated in memory of an Asian alumnus, the late Pin Yuan Tang, of Hong Kong, who was a member of the Class of 1923. His widow attended the dedication last Friday, June 1, at Tang Residence Hall where she spoke with Howard W. Johnson, Corporation chairman, and President Jerome B. Wiesner. See story on page 2. —Photo by Susan Pogany



LARGEST CLASS GIFT—David W. Skinner of Waban, Mass., (right) reunion gift chairman for the MIT Class of 1923, is shown with Breene M. Kerr (left), Class of 1951 and retiring president of the MIT Alumni Association, and President Jerome B. Wiesner (center) at the annual Alumni Day luncheon

in Rockwell Cage Monday. The Class of 1923 announced at the luncheon the largest reunion class gift in MIT history—\$8,098,300. Mr. Kerr presided at the luncheon and President Wiesner accepted the gift on behalf of MIT. —Photo by Susan Pogany

COMMENCEMENT ADDRESS

Society Needs New 'Processes' to Solve Complex System Problems, Wiesner Says

MIT President Jerome B. Wiesner told some 1,290 seniors and graduate students at MIT's 107th commencement Friday (June 1) that society needs to develop "processes" by which solutions to social problems can be found and put less emphasis on sometimes unreachable goals.

In this way, he said, there would be a more realistic assessment of possibilities and less disillusion-

ment from unmet objectives.

Dr. Wiesner cautioned the graduates, who included a record number of women, against accepting the idea that "any large task has a solution and is merely a technical challenge." But he said that major social problems should be recognized as "complex systems" and managed "with the same thoroughness that we would employ on a purely technical problem."

"Effective means do not exist for achieving societal goals," Dr. Wiesner told the commencement audience in Rockwell Cage. "This is in large measure because we are oblivious to the importance of understanding the processes through which we pursue collective goals."

"Consequently," he continued, "they often can't be fulfilled, at

(Continued on page 8)

5 New Members Elected to Corporation, 3 Re-elected

The MIT Corporation has elected five new members, and re-elected three present and former members to five-year terms.

Announcement of the elections was made by Howard W. Johnson, chairman of the Corporation.

Two of the five new members—Charles B. McCoy, Class of 1932, chairman of the board of directors of E. I. duPont de Nemours and

Co., Wilmington, Del., and Ellmore C. Patterson, chairman of the board of Morgan Guaranty Trust Co., New York City—were elected on nomination by the membership committee of the Corporation.

Three of the five new members—Angus N. MacDonald, president of Angus MacDonald and Co., Inc., Stamford, Conn.,

Class of 1946; James E. Turner, former group vice president of Textron, Inc., Providence, R.I., Class of 1933; and Edward O. Vetter, executive vice president of Texas Instruments, Inc., Dallas, Tex., Class of 1942—were nominated for election by members of the MIT Alumni Association.

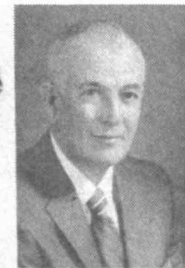
Re-elected to five-year term memberships on nomination by

the Membership Committee were Frank R. Milliken, president and chief executive officer of the Kennecott Copper Corp., New York City, and Gregory Smith, former president and general manager of the Eastman Gelatine Corp., Peabody, Mass.

Laurence Storch of Cambridge, a 1971 MIT graduate and now a student at Harvard Law School,

was elected to a five-year term as a Representative from Recent Classes. Mr. Storch previously served a one-year term (1971-72).

In addition, William S. Ederly Class of 1949, financial vice president of the Cabot Corporation, begins a one-year term as an ex-officio member by virtue of his election as the 1973-74 president of the MIT Alumni Association.



Ederly MacDonald McCoy Milliken Patterson Smith Storch Turner Vetter

Graduate Residence Hall Named for Asian Alumnus

MIT dedicated a recently completed 24-story graduate student residence hall to the memory of Asian industrialist Pin Yuan Tang, an MIT alumnus in the Class of 1923, following 1973 Commencement exercises last Friday, June 1, and coincident with the 50th reunion of Mr. Tang's class.

Howard W. Johnson, Chairman of the Corporation, presided at the dedication ceremonies. Guests of honor, beside Mr. Tang's classmates, were members of the Tang family from Hong Kong and New York City. Mr. Tang, who at the time of his death in June, 1971, was head of a major industrial complex based in Hong Kong, was the first of three generations of his family to attend MIT.

Speaking for the Corporation, Mr. Johnson said: "In honoring Ping Yuan Tang, we salute his family for their cosmopolitan example and their generous affection towards our students here at MIT."

Mr. Johnson noted that with the naming of Tang Residence Hall "about 10 percent of the total floor space of the Institute bears the Class of 1923 imprint."

He said that the Tang family's gifts toward the apartment building represented "the largest contributions received by MIT from sources outside the United States since the founding of the Institute."

Tang Residence Hall, located on Memorial Drive near Westgate I, provides apartment facilities for 400 single graduate students. It was financed in part through bonds issued by the Massachusetts Health and Education Facilities Authority and in part by a grant from the College Housing Loan Program of the US Department of Housing and Urban Development. Besides the Tang family, the other major private donor was the Kresge Foundation. Architect for Tang Hall was Hugh Stubbins.

"Throughout his life," Mr. Johnson said, "Mr. Tang placed great importance on education. His company, for example, provides free schooling and vocational training for its 2,500 employees. At the time of his death,

he was Chairman of the Board of Governors of New Asia College and a member of the Board of the Chinese University of Hong Kong."

Mr. Tang received his own early education in his native Peking, China, and came to the US in 1919 to study industrial management at MIT. Following his graduation in 1923, he returned to China where he built an industry based in Shanghai, manufacturing commodities such as textiles, flour and cement. After the Communist regime assumed control of mainland China, Mr. Tang rebuilt his enterprises in Hong Kong through his firm, the South Sea Textile Manufacturing Co., Ltd., which conducts operations throughout Southeast Asia.

Tang Residence Hall was formally presented to MIT by Mr. Tang's son, Jack C. Tang, who is a

principal officer of the family firm and who received his SB degree in chemical engineering from MIT in 1949.

"In Hong Kong and throughout Southeast Asia, MIT stands as a towering symbol of international quality in scientific education," Mr. Tang said.

"The fame of its engineering school and of its Department of Chemical Engineering became part of my boyhood dreams of attending MIT. When my son, Martin, was admitted to the graduate program of the Alfred P. Sloan School of Management, my father's ambition of seeing three generations of MIT men in the family was realized," he said.

Mr. Tang's son, Martin Y. Tang, received the SM degree in industrial management from MIT last June.

"On behalf of my mother and all

of the members of the Tang family," Mr. Tang concluded, "I present this building to MIT. I do so with our overflowing pride and our grateful appreciation for this magnificent tribute to my father."

Formal acceptance of Tang Hall was made by President Jerome B. Wiesner, who called the building "more than a dramatic addition to the skyline of MIT," saying it represented "a great step forward in the total development of MIT's Graduate School."

Noting that MIT has one of the highest concentrations of foreign students on any US campus, President Wiesner said: "Our foreign students add tremendously to the intellectual life of the Institute. Together they represent a tremendous opportunity for cultural exchange and international understanding. Our foreign graduate students have shown a

strong preference for living on the campus, and their needs have played a major role in the evolution of Tang Residence Hall."

President Wiesner said MIT was deeply committed to continued efforts to increase campus housing. "We are also committed to the creation of better housing for the City of Cambridge," he said.

"The dedication of a university residence at a moment in time is, after all, a symbol of the more continuous and enduring dedication of a relatively small community—this MIT community—to a larger system—the City of Cambridge and the Greater Boston Area—of which we are a part."

He concluded: "It was a happy day in MIT's history that saw the graduation of P. Y. Tang in 1923. It was a day when the Foundations of Tang Residence Hall were laid."



Participants at the Centennial Convocation troop from Kresge to the Student Center for the informal luncheon on Saturday, June 2, above. On page 3, top left, Susan E. Schur, '60, chairman of the centennial committee, opening the convocation; top right, Mrs. Katharine Graham,

71 Recent MIT Graduates Inducted into Phi Beta Kappa

Seventy-one recent graduates of MIT—nine women and 62 men—were inducted into the Xi of Massachusetts Chapter of Phi Beta Kappa, the national honorary society, at a banquet dinner held in their honor at the St. Botolph Club on May 29.

Speakers at the dinner were David McCord, a Cambridge poet, and Elting Morison, historian and 1926 Killian Professor of Humanities.

The MIT students elected to Phi Beta Kappa this year are:

Manoug M. Ansour, of Forest Hills, N.Y.; Rona E. Appel, of Brooklyn, N.Y.; Bertrand

C. Barrois, of Princeton, N.J.; Scott S. Brown, of Longmeadow, Mass.; Timothy M. Camann, of Niagara Falls, N.Y.; Webster C. Cash, Jr., of Nashville, Tenn.; Heather E. P. Cattell, of Champagne, Ill.; John F. Chandler, of Wilmington, Del.; Andrew Chao, Riverdale, N.Y.;

Also, Richard A. Charpie, of Weston, Mass.; David M. Christie, of Quartz Hill, Calif.; Sandra L. Cohen, of Scarsdale, N.Y.; Eric R. Dietz, Trumbull, Conn.; Barry L. Engelstad, of Skokie, Ill.; Wendy E. Erb, of Bloomfield Hills, Mich.; Douglas V. Faller, of Tampa, Fla.;

Also, John P. Fetrow, of Germantown, Md.; Neil L. Fleishon, of Philadelphia, Pa.; Richard S. Galik, of Lyndhurst, N.J.; Joan S. Gildin, Great Neck, N.Y.; Michael J. V. Gordon, of Colorado Springs, Col.; Stephen J. Gould, of Brooklyn, N.Y.; Richard A. Haas, of West Lafayette, Ind.; Mark S. Hillery, of Louisville, Ky.; Doran C. Holzer, of N.Y. City,

N.Y.; Robert N. Horowitz, of Bayside, N.Y.; Charles D. Hunter, of Long Grove, Ill.; Craig M. Kanter, of Manitowoc, Wis.;

Also, Matthew Kaufmann, of McLean, Va.; Paul C. Lembesis, Mt. Prospect, Ill.; Kevin F. Marzotto, of Pittsfield, Mass.; Norman A. Mazer, of Dresher, Pa.; Frederick S. Mishkin, of New York City; Forrest Milder, of Ocean-side, N.Y.; William V. Miller, Ashville, Ohio; Barry N. Nelson, of Providence, R.I.; Irving L. Paskowitz, of Brooklyn, N.Y.; Jean B. Paskowitz, of St. Louis, Mo.;

Also, Stephen J. Pfister, of Manhasset, N.Y.; Burton Richards, of Convent Station, N.Y.; Dana L. Roberts, of Norwalk, Conn.; Eric C. Rosen, of Bronx, N.Y.; Charles T. Ryan, of Jeffersonville, Ind.; Robert D. Schachat, of Weston, Conn.; Simeon A. Schwartz, of Brooklyn, N.Y.; Anthony F. Shields, Oak Park, Mich.; Cheolsu Shin, of Seoul, Korea.;

Also, David C. Simen, of Newton, Mass.;

Thomas Sorger, of Montreal, Ontario, Canada; Ellen A. Spielman, of Yonkers, N.Y.; Robin Staffin, of Philadelphia, Pa.; William G. Strong, of Fairfax, Va.; Eric M. Suuberg, of East Patchogue, N.Y.; Paul S. Swerdlow, of Beverly Hills, Calif.; Duncan Sze-Tu, of Jackson Heights, N.Y.; John E. Thomas, of Oyster Bay, N.Y.; Alan Tipermas, of Fairlawn, N.J.; Alan D. Troy, of Scranton, Pa.; Dennis J. Tully, of Caldwell, N.J.; Andrew E. Wade, of Sioux City, Io.;

Also, Patricia A. Walicke, of Birmingham, Mich.; Randall Weiss, of Boston, Mass.; Thomas J. Wheeler, of Schenectady, N.Y.; Paul Winsberg, of Kenilworth, Ill.; Gary A. Woods, of Cambridge, Mass.; Gordon Woulff, of New York City, N.Y.; Ellen J. Yoffa, of Manchester, N.H.; Robert S. Paster, of Riverside, R.I.; Lawrence S. Bacow, of Pontiac, Mich.; Munib Abdulwahab, of Addis Ababa, Ethiopia; Frederick P. Wiener, of Toronto, Canada.

Class of 1948 Honors Mrs. Laya Wiesner as Member

(Continued from page 1)

Stratton, who served as president from 1959 to 1966, is the first former MIT president able to celebrate a 50th anniversary with his class.

Breene M. Kerr of Oklahoma City, Class of 1951, the retiring president of the MIT Alumni Association, presided at the luncheon in Rockwell Cage. It was attended by about 800 graduates and guests.

Mr. Kerr introduced the incoming president, William S.

Ederly of Cambridge, Class of 1949, financial vice president and director of the Cabot Corporation of Boston.

He also announced that Laya W. Wiesner, wife of President Jerome B. Wiesner, had been made an honorary member of the Class of 1948 and of the Alumni Association.

President Wiesner, in his remarks, said that the alumni offered "indispensable help" in four areas: "support, maintaining a well-qualified student body, es-

tablishing and fostering good relations with industry, government and the general public, and probably, most important, an enormous amount of general advice and expertise."

It was especially important, he said, that there be a variety of ways for alumni, both collectively and individually, to maintain contacts with the MIT administration.

"Their judgment is seasoned from years of managerial and other professional careers," he

said, "and often bears directly on many of the problems of the Institute."

"Just as living on campus and the constant contact with faculty and other students outside the classroom provides our students with the so-called 'hidden curriculum,' so I hope increasingly my contact and the contact of our faculty with our former students will help us gauge our effectiveness and the social, economic and technological needs we should be servicing."

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Please address all news and comment to the editorial office, Room 5-111, Ext. 3-3277.

Richards Professorship Announced at Women's Centennial

Establishment of the Ellen Swallow Richards Professorship at MIT was announced by President Jerome B. Wiesner at the opening of the Centennial Convocation commemorating the one-hundredth anniversary of Mrs. Richards' graduation from MIT in 1873.

The Chair will be reserved for distinguished women members of the Institute faculty, Dr. Wiesner said.

"The Professorship is now partially funded at about one-half to two-thirds of the amount needed. When the Chair is fully funded, we would expect to make appointments to it drawing first and primarily from our own MIT alumnae," he said. "It will be available for appointments in any of the five schools of the Institute, under the supervision of the provost.

"This professorship is intended

to recognize the national importance of contributions by women to research and education at MIT, to honor the pioneering spirit and professional achievement of Mrs. Richards as the first woman to hold membership in the MIT faculty (she joined the Department of Chemistry in 1878 and served until 1911), and to strengthen the role of women in the Institute's faculty."

An address on global perspectives by Admiral Elmo R. Zumwalt, Jr., chief of US Naval operations, followed Dr. Wiesner's opening remarks.

Adm. Zumwalt warned that the energy crisis could become more acute in this country if Middle Eastern oil sources fall under Russian control. He noted that the Soviets had helped Iraq wrest territory from Kuwait for a Persian Gulf naval base and that their presence in the Indian Ocean

has increased until their strength in the area is now three times that of the United States.

"They will move in on various areas of interest, always giving us an honorable way to back down, until they hit the very jugular, the Middle East," he said.

Adm. Zumwalt said success of the long-range Soviet policy and a throttling of oil supply, could make America become chauvinistic in its foreign policy and this, he said, is a danger to be avoided.

Banquet speaker was Mrs. Katharine Graham, chairman and chief executive officer of the Washington Post Company who discussed the Pulitzer Prize winning efforts of the *Washington Post* in exposing the Watergate affair.

The Watergate bugging, Mrs. Graham said, was a "conspiracy not of greed but of arrogance and fear."

"The picture that emerges is one of a band of zealots, profoundly insecure in their power, with small regard for democratic processes, no tolerance for dissent, and great contempt for the traditional constraints of law and propriety."

She called for a "reconstruction of the Presidency and for public trust in the executive branch of government." The main responsibility for reform, she said, "must rest with people like yourselves who have an appetite for challenge and a taste for open, decent and effective government."

Mrs. Helvi Sipila, assistant secretary-general for social and humanitarian matters at the United Nations and the first woman to hold cabinet rank at the UN, was the featured speaker at the closing session of the Convocation Sunday morning.

Mrs. Sipila said when women in developing nations have access to education they are more likely to go into professional fields. "Where education is a privilege it cannot be wasted," she said.

However, when educational facilities are limited it is the female students who lose out, she said. Men are given priority because they are expected to be breadwinners.

For this reason, a majority of the world's 800 million illiterates are women, Mrs. Sipila said. UN studies show that educated women are more likely to use birth control. Hence, she said, many of the problems of overpopulated developing nations might be alleviated by educating women.

Dr. Mary Potter Rowe, MIT special assistant to the chancellor for women and work, also spoke at the opening session of the convocation.

Dr. Rowe called for the restructuring of work options for men and women under an "androgynous" system which would allow people to be "spiritually both masculine and feminine to the degree they choose to be."

"Androgyny means personal choice in the area of work," Dr. Rowe said. "It means what people do, in areas now sex-stereotyped, shall not be determined by sex-typing but by personal choice. It means permitting men to cry, to join the nurturant professions, to care for children and colleagues. It means permitting women to be assertive, and financially independent, and giving them wide career options."

If work options were more flexible, she said, many families would want to continue just as they are, but others would choose shared or part-time jobs and also share the responsibilities of the home.

Institute Professor Gyorgy Kepes also spoke, calling for recognition that nature—the environment—is an "extension of our own bodies." We must find a new system for living "with a sense of inner unity," he said.

The Convocation was sponsored by the Association of MIT Alumnae, under the direction of Susan Schurr '60.



with her son Stephen, at the Centennial banquet; lower left, a convocation delegate studies one of the many historical exhibits in Kresge,

McCormick Hall and Hayden Gallery; lower right, Mrs. Helvi Sipila (center front) the Centennial closing speaker, —Photos by Sheldon Lowenthal

SPORTS REPORT

Sailing, Victory; Pole Vault, 3rd; Crew, Whew!

Four MIT coeds edged out sailing teams from Radcliffe College and Princeton University to win the Women's National Intercollegiate Sailing Championship last weekend.

The sailing regatta, held May 31 to June 2 at the State University of New York Sailing Academy in Fort Schuyler, N.Y., featured sailing teams from ten eastern and midwestern colleges and universities.

Sailing in the "A" division for MIT were Maria Bozzuto, skipper, of Waterbury, Conn., and Penny Butler, crew, of Daytona Beach, Fla. "B" division sailors were Shelley Bernstein, skipper, of Danbury, Conn., and Joan Pendleton, crew, of Suffern, N.Y. Alternate for the team was Barbara Miglierian of Dorchester, Mass. The team was coached by Stuart Nelson.

On a low-point scoring system the MIT sailors totalled 52 points, while Radcliffe scored 56 points and Princeton, 61. Boston University, which also participated, placed fifth with a score of 84 points.

Dave Wilson of MIT, Harold Small of Brandeis and Don Slevin of Tufts were New England entries who placed in last Saturday's windup of the NCAA college division track and field championships.

Wilson tied for third at 15-6 in the pole vault with Ken Haagen of California Poly-San Luis Obispo. The event was won by St. Olaf's Paul Delaitsch at 16 feet.

Small ran third (1:52.2) in the 80, where Cal Poly Pomona's Jim Cough led the

way in 1:51.8, while Slevin took fifth in the 40-yard hurdles. The Tufts runner did 51.8, seven tenths off the winning pace of Eastern Illinois' Rod Jackson.

New England's only individual title was authored the first day of the meet by Springfield's Harold Cramer, whose 191-1 effort won the hammer, an event that also included Brian Moore, MIT, third; Paul Taddi, So. Conn., fourth; and John Pearson, MIT, sixth.

MIT Host for Conference

An international conference of educators specializing in the development of environmental education programs will convene at MIT June 6-8.

MIT will be host for the conference through the Office of the Provost, under the direction of Dr. Louis Menand, assistant to the provost.

Educators from the United States and Europe are expected to

attend. International delegates from Denmark, France, Sweden, Switzerland, Germany, The Netherlands, England, and Canada will attend under the auspices of the General Service Foundation of St. Paul, Minn.

The conference is sponsored also by Total Education in the Total Environment, of Dobbs Ferry, N.Y. and the Center for Curriculum Design, of Evanston, Ill.

A mere two feet was all that separated the freshman heavy-weight MIT rowing team from victory last Saturday, as Wisconsin overhauled them in the last two strokes to win at the 71st IRA regatta.

Wisconsin finished the race with a furious spurt, which overcame MIT's length lead in the last 750 yards of the freshman race. The final times were 6:35.1 for the University of Wisconsin and 6:35.6 for the MIT team.

At stake, if the freshman heavy-weight crew won the IRA championship, was a trip to the Henley Regatta.

Wisconsin also took the varsity championship, in which MIT placed sixth. The regatta was held on Onondaga Lake in Syracuse, New York.

Jack H. Frailey, veteran light-weight crew coach and director of the Student Financial Aid Office, was elected chairman of the United States Olympic Rowing Committee at the regatta.

Personnel Office Seeking Jobs For Teenagers

The MIT Personnel Office is canvassing Institute departments and offices in an effort to find summer jobs for 50 Cambridge high school students participating in the sixth annual MIT summer employment program.

Students are referred by the Cambridge Youth Employment Program and the Neighborhood Youth Corps to fill positions primarily in labs and offices.

Salaries for the students come from the Neighborhood Youth Corps, the Personnel Office, and from departmental and office budgets.

Miss India Thompson, who was an MIT personnel representative from 1969 to 1972 and summer program coordinator, has returned to MIT to supervise the program again this year. She will also serve as a career counselor to the students, run vocational and cultural workshops, as well as organize typing classes.

Department personnel officers can contact Miss Thompson at Ext. 3-1592 if they are interested in employing students for the summer.

THE INSTITUTE CALENDAR

June 6
through
June 15

Events of Special Interest

International Conference of Environmental Educators

Workshops and discussions on strategies for implementing multi-disciplinary environmental education programs. June 6-8. For further information call Keith Ronnholm, 969-9148.

New England Chinese Martial Arts Association*

Martial arts demonstration. Fri, June 15, 7:30pm, Kresge.

Senate Watergate Hearings

The Lobby 7 committee is sponsoring a television weekdays for those interested in the Senate Watergate hearings. The television is in the Building 7 lobby, and will be tuned to the hearings weekdays until they conclude.

Seminars and Lectures

Wednesday, June 6

Aero/Astro Doctoral Thesis Seminar

H. Lakshmirantha, "Investigation of Two-Phase Vortex Flows with Applications to a Cavity Nuclear Rocket," 1pm, Rm 33-206.

Thursday, June 7

Aero/Astro Doctoral Thesis Seminar

A. Bilanin, "Wave Mechanics of Line Vortices," 2pm; D. Bliss, "Dynamics of Flows with High Concentrations of Vorticity," 3pm, Rm 33-206.

Friday, June 8

Aero/Astro Doctoral Thesis Seminar

Syozo Yasui, "Nystagmus Generation, Ocular Motor Tracking, and Visual Velocity Perception," 10am, Rm 33-206.

Aero/Astro Doctoral Thesis Seminar

Joseph O'Connor, "Aircraft Range Optimization Using Singular Perturbations," 1 pm; Joseph Tymczyszyn, "A System of Terminal Air Traffic Control Using Three Dimensional Area Navigation," 3pm, Rm 33-206.

Monday, June 11

The Electret Effect in Biopolymers and the Problem of Bound Water

Dr. Sergio Mascarenhas, University of San Paulo, Brazil. Health Science Seminar. 4pm, Rm 37-212.

Friday, June 15

The Use of High Resolution NMR in the Study of Polymer Chain Structure

Dr. Frank A. Bovey, Bell Labs. Chemical Engineering Seminar. 11am, Rm 12-150 (Lewis Conf Rm).

Community Meetings

Women's Forum

Meetings and discussions. Mondays, 12n, Great Court, if raining—Bush Rm, 10-105.

Women's Forum Committee on Status of Bi-Weekly Employees

Meetings and discussions. Tues, 12n, Rm 3-463 ME Dept Secretary's Lounge.

Research, Development and Technical Employees' Union

Union membership meeting. Wed, June 6, 6:15-7:15pm, Sala de Puerto Rico.

MIT Club Notes and Meetings

Bridge Club

ACBL Duplicate Bridge. Thurs, 7pm, Stu Ctr Rm 491. No card fees if under 5 tables. Call x0453 Dorm.

Chess Club

Sat and Sun, 1:30-5:30pm, Student Center Rm 473.

Classical Guitar Society

Classes, group or private. Mon & Thurs, 5-8pm, Rm 1-132, 134, 136; Sat, 8am-12n, Rm 5-231, 232. Vo Ta Han, 494-8353.

Goju Karate Club*

Open to the Cambridge Community. Mon, Wed, Fri, 7:30pm, Stu Ctr Rm 407. Call 253-2018.

Hobby Shop

Mon-Thur, summer term, 12n-5pm, Rm W31-031. Fees: \$10/term for students; \$15/term for community. Call x3-4343.

Judo Club**

H. Yanagi, 5th degree black belt, chief instructor. Mon, Wed, Fri, 5-6:30pm; Sat, 1-3pm; duPont Exercise Rm. M. Portnoff, x3-5954.

MIT/DL Duplicate Bridge Club**

Tues, 6pm, Student Center Rm 473. Call x0453 Dorm.

Rugby Club**

Practice sessions; Tues, Thurs, 5pm, Briggs Field, 1pm, meet in duPont Gym.

Science Fiction Society*

Fri, 5pm, Rm 1-236.

Scuba Club

Compressor hours, Mon & Fri, 4-6pm, Alumni Pool.

Student Homophile League*

Meeting and coffee hour. Sun, 4-6pm, Rm 14E-307. All men and women welcome. For gay help (anonymous) at MIT, call student gay tutor, 492-7871, anytime.

Tech Squares***

Western style square dancing. Tues, 8-11pm, Sala de Puerto Rico. Admission: \$1; first time free.

Tiddlywinks Association*

Wed, 8pm, Student Center Rm 491.

MIT Wheelman**

All aspects of bicycles and bicycling discussed, events planned, advice and help given. Thurs, 7:30pm, Rm 1-203. Call Harry, x3-2384.

Social Events

Friday Afternoon Club**

Music, conversation and all the cold draft you can drink. Fri, 6pm, the Thirsty Ear, Ashdown basement. Admission: \$1 men, 50 cents women. Must be over 18.

Muddy Charles Pub**

Join your friends for music, beer, wine snacks, conversation at the Muddy Charles Pub, 110 Walker. Hours: Mon-Fri, 11:30am-2pm and 4-7:30pm; Sat, 7-12pm. Nightly specials will include: Mon, all wines 25 cents; Tues-Thurs, free pretzels and chips. Call GSC, x3-2195.

Movies

Il Grido (Antonioni)

MIT Film Society. Fri, June 8, 8pm, 10pm, Rm 10-250. Admission \$1.

Red Desert (Antonioni)

MIT Film Society. Fri, June, 15, 8pm, 10pm, Rm 10-250. Admission \$1.

Dance

Dance Free

Improvisational dance, yoga, chanting, light show. Fri, 8pm, Sala de Puerto Rico. Admission: \$1 with student or dance free ID.

Dance Collective Concert

Dance Workshop. Fri, June 15 & Sat, June 16, 8:30pm, Sun, June 17, 4pm, Kresge Little Theater. Tickets \$2 in advance, \$3 at door.

Dance Workshop

Courses in modern, Afro-American and M/J/B dance. For information call Chris Peterson, 492-6983.

Folk Dance Club*

International, Sun, 7:30-11pm, Sala. Balkan, Tues, 7:30-11pm, Student Center Rm 491. Israeli, Thurs, 4:15-10:15pm, duPont T-Club Lounge. Afternoon dance break, Fri, 12:30-1:30pm, Bldg 7 lobby.

Kundalini Yoga

Classes: beg, Mon & Fri, 1pm, duPont Wrestling Room, Tues & Thurs, 3pm, McCormick Green Lge; intermed, Mon, 6:30pm, McCormick Green Lge. Enis Singh Vlug, 436-3753.

Exhibitions

Music Library Exhibit

Pictorial Exhibition, Mozart's Opera *The Magic Flute*. Daily, Rm 14E-109.

19th Century Italian Paintings

Paintings selected from American Collections. May 11-June 9. Mon-Sat, 10am-4pm, Hayden Gallery.

Grass Playgrounds by Stan Resnicoff

m, Now thru June 14, Hayden Court, 10am-4pm.

Photographs: "New Woman"

Exhibition of photographs with documents on the history of women at MIT. May 21-June 11, Corridor Gallery, open daily.

Hart Nautical Museum*

Exhibits include "Ocean Engineering Summer Laboratory Projects 1971 and 1972," and "Tugs and Towing," Bldg 5, first floor.

Religious Services and Activities

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

Campus Crusade for Christ/College Life*

Family time, fellowship and teachings from God's Word. 7-9pm, Rm 1-132.

Christian Bible Discussion Group*

Thurs, 1pm, Rm 20B-031. Call Prof. Schimmel, x3-6739, or Ralph Burgess, x3-2415.

Christian Science Organization*

Tues, 7:15pm, Rm 8-314. Meetings include testimonies of healing.

Divine Light*

Discourses on the knowledge of Shri Guru Maharaj Ji. Mon, Wed, Fri, 7:30pm, Rm 4-159.

Hillel Classes

Hebrew, Wed: Beg 6pm; Intermed 5pm, Rm 1-203; Adv 1pm, Rm 5-231. Basic Judaism Kathy Green, Wed, 8am, Hillel Library. Yiddish, Thur, 7pm, Rm 1-242. Mekhila lectures, Fri, 12n, Hillel Library. Talmud, Beg, Mon-Tues, 8pm; Adv, Sun, 12n, Wed, 8pm.

Islamic Society*

Prayers, Fri, 12:15pm, Kresge Rehearsal Rm B. Discussions on the Qur'anic interpretations of various aspects of life, Sat, 4pm, ISC Lounge, Walker 2nd floor, coffee served.

Roman Catholic Masses

Sun, 9:15am, 12:15pm, 5:15pm; Tues, 5:05pm; Wed, 4:30pm; Fri, 12:05pm. Chapel.

United Christian Fellowship*

Christians for dinner, food, fellowship. Wed, 5pm, Walker (at sign of the fish). Followed by singing, praying, sharing meeting, 6pm, Rm 14E-303.

Vedanta Society*

Services, Fri, 5:15pm, Chapel. Followed by discussion hour, 6pm, Lobdell Dining Room.

Westgate I & II Bible Study

Wed, 8pm, Westgate I, apt 1202. For information, 494-8405 or 494-8778.

Zen Society*

Meditation meetings. Mon through Fri, 8-9am, Chapel. Call 492-4945.

Announcements

MIT Musical Theatre Guild

MIT Musical Theatre Guild Needs Directors/Musical Directors. Will be interviewing prospective directors and musical directors for summer show, *Fantasticks*, and/or fall show, *Man of La Mancha*. June 9, Stu Center, W20-439, 2pm.

MIT Community Softball League

Players and umpires are invited to join teams for the 1973 season beginning June 11. For information, Rick Gentilman, x3-4625.

New Collection Days for Paper Recycling Wastebaskets

Beginning on Tuesday, May 19, paper recycling boxes will be collected on Tuesdays and Thursdays of every week.

Graduate Study

South Australian Government research scholarships for postgraduate studies in transport are available to graduates with honours degree qualifications. The scholarships are tenable in any faculty at the University of Adelaide, the Flinders University of South Australia, and the South Australian Institute of Technology. Scholarships are tenable from February 1 to December 31 of the same year and are renewable subject to satisfactory progress, for a maximum period of two years for Masters candidates and normally for a maximum of three years for PhD candidates.

The stipend rate for a single scholar will be \$2,900 (A) a year. Additional money will be payable to a married male scholar with a wife and child(ren). Deadline for applications is October 31, 1973, and application forms may be obtained from: The Secretary, Transport Scholarship Committee, Office of the Director-General of Transport, Box 935, G.P.O., Adelaide, S.A. 5001. For further information see Professor Locke or Paula Kelly, Foreign Study Office, Room 10-303, Ext. 3-5243.

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

* Open to the public

** Open to the MIT community only

*** Open to members only

Send notices for June 13 through June 22 to the Calendar Editor, Room 5-111, Ext. 3-3279, before noon Friday, June 8.

Civil Rights Danger Seen in News Study

Watergate coverage by the media has escalated in the past month, an MIT study group has found, to the point where the civil rights of the "highest executive" are "no safer than the civil rights of the lowest street criminal."

That is one of the central findings of the Network News Study Group (NNSG) in MIT's Political Science Department.

The NNSG, which makes use of videotape and computer-aided research to analyze news coverage of selected events, is made up of faculty and students from MIT and Wellesley College.

A few months ago the group reported on the different patterns of coverage by the three national networks during the 1972 presidential election campaign. In the new research project, it has turned its attention to the break-in at the Democratic National Committee headquarters in Washington, D.C., in order to compare pre-election and post-election Watergate coverage.

It particularly concentrated on coverage since President Nixon's televised address of April 30, in which he said that a special prosecutor would be appointed in the Watergate case.

Among the questions the group sought to answer were these:

Are political crimes reported any differently than ordinary crime? If so, in what way? Are the civil rights of the accused—from the streets and the executive suites—equally respected in the media?

Edwin Diamond, visiting lecturer in political science and co-director of the group, presented results of the group's study at the First National Conference on Crime and Media held Thursday, May 31, at the John Jay School of Criminal Justice, City University of New York.

In general, the findings indicated:

1. There was a certain tendency, in news stories at least, for the media to treat the Watergate break-in initially as some kind of campaign hi-jinks. This is reflected in some of the early vocabulary of coverage—the Watergate Caper, the Watergate Affair, the Watergate Incident, the Watergate Episode...Television graphics reflected this tendency, too: ABC News used a slide with the word "SPY" and a donkey and an elephant as its backdrop for news items. Although later reports shook this fun-and-games image, the coverage never quite surmounted the notion of an isolated instance conveyed by the word Watergate. It has become a portmanteau word that conceals rather than reveals.

2. In the pre-election coverage, the news media were quite solicitous of the various "accused" (some might argue this care was for the wrong reasons). Almost always any reports that seemed to implicate White House and or Committee to Re-elect the President officials were followed by denials, all carefully balanced.

3. Since April 30, however, the charges have escalated faster than the denials. Whereas the *Washington Post* had been quite careful to have multiple sources for its articles, a run of much shakier stories is flooding the wires and the evening news. This demonstrates once again the "blackbird phenomena" in news coverage: when one blackbird lights on a wire, all blackbirds light on the wire...when one blackbird flies away, all blackbirds fly away. When the blackbirds are flying, the civil rights of the highest executive in the suites are no safer than the civil rights of the lowest street criminal.

The general findings of the group will be amplified in a report being prepared for publication in the *Columbia Journalism Review*.

The Watergate coverage analysis was done by two student members of the NNSG: Richard C. Parker, an MIT junior from Brookline, Mass. and David L. Olive, a freshman from Humble, Texas. The other co-director of the group is Professor Ithiel Pool of the MIT political science department. Mr. Diamond is also media critic for the Post-Newsweek stations in Washington, D.C. and a contributing editor to *New York Magazine*. The research group is funded by the John and Mary B. Markle Foundation.



SOVIET SCIENCE WRITERS—Six science news writers from the Soviet Union touring the US as part of an exchange spent a day at MIT last week. They were guests at a Faculty Club luncheon chaired by Provost Walter A. Rosenblith and while on campus and at their request had interview sessions with Dr. Har Gobind Khorana (lower right), professor of biology and chemistry, and Dr. Alexander Rich, professor of biology. Hosts at MIT were Technology

Review and the MIT News Office. The group was sent to the US by the Union of Soviet Journalists after a group of American science writers toured the USSR earlier under sponsorship of the US Council for the Advancement of Science Writing. The Soviet journalists' affiliations included *Izvestia*, *Red Star*, *Komsomol'skaya Pravda*, *Znaniye-Sila*, the TASS news agency and the journalists' union. —MIT photo

Obituaries

Katherine Nearen, 59

Katherine T. Nearen, 59, of Medford, who was a Lincoln Lab technician on long-term disability since December 1972, died on Monday, May 28. Mrs. Nearen came to the Institute in 1954.

She is survived by her husband, William, her son, William Masiello, four grandchildren, and two sisters.

Herbert Passler, 70

Herbert Passler, 70, an hourly employee in the Chemical Engineering Department until his retirement in July, 1968, died Friday, May 11. Mr. Passler came to the Institute in 1945.

He is survived by his brother, Harry Passler, of Braintree.

C. J. Harrington, 64

Cornelius J. Harrington, 64, of Arlington, a night custodian with Physical Plant, died Thursday, May 10.

Mr. Harrington came to MIT in 1956.

He leaves his wife, Agnes, and two daughters, Miss Agnes Harrington and Mrs. Elaine Labossier and a son, Cornelius J., Jr.

Ex-POW Brudno Apparent Suicide

Air Force Capt. Edward Alan Brudno, the former prisoner of war whose death last weekend was termed an apparent suicide, was an MIT graduate and received his commission through the Air Force R.O.T.C. program.

Brudno, a graduate of North Quincy High School, received a bachelor's degree in aeronautics and astronautics in January, 1963. He would have been 33 years old on June 4, the day after he was found dead at his in-laws' home in Harrison, N.Y. He had been a prisoner in North Vietnam for seven years.



Frank Montisano, right, president-elect of the Lowell Institute School Alumni Association, unveiled a portrait of LIS retiring director, Dr. F. Leroy Foster, at the annual dinner of the Alumni Association Friday, June 1, at the Faculty Club. Looking on are

Dr. Bruce Wedlock, new director of LIS and Dr. Foster. The portrait, by Robert Douglas Hunter, was also on view in the Bush Room Monday at a reception given for Dr. Foster on his retirement after 48 years at the Institute.

—Photo by Susan Pogany

16 in ROTC Commissioned

Sixteen ROTC cadets received commissions in the armed services Thursday, May 31, in joint military commissioning exercises at MIT.

Rear Admiral Richard E. Rumble, USN, Commandant of the First Naval District, was speaker at the ceremony, which was attended by MIT President Jerome B. Wiesner, Provost Walter A. Rosenblith, and families of the cadets.

The commissioning oaths were administered by Colonel Joe F. Elliott, US Army director of Naval Science at MIT and Captain William R. Porter, USN, director of Naval Science at MIT, and Lt. Colonel Victor B. Goodrich, director of MIT Aerospace Studies.

In his remarks Admiral Rumble told the cadets, "It is your generation who is questioning the preachings, the teachings, the traditions, the customs, and so on, of your predecessors, and this I applaud, for if out of this entire questioning process and exami-

nation you all come up with stronger moral values and a better society, it will be worth while."

James A. McAtamney, of Newport News, Va., and Manuel A. Rodriguez, of Isla Verdes, Puerto Rico, who were designated distinguished military graduates, were commissioned as 2nd Lieutenants in the Army Reserve.

Four midshipmen received officers' commissions. Arthur H. Barber III, of Cambridge, Mass. and John R. Gersh, of Cambridge, Mass. were commissioned as Ensigns in the US Navy, and John F. Alvarez, of Bayamon, Puerto Rico, and James A. Griffiths, of Lynnhurst, O., received commissions in the Naval Reserve.

Commissioned as 2nd Lieutenants in the US Air Force were Scott L. Berg, of Cudahy, Wis.; Steven J. Bielagus, of Santa Maria, Calif.; George Bolen, of Biloxi, Miss.; Wilson Chun-Ling Chin, of Brooklyn, N.Y.; Thomas E. Fenstermacher, of Silver Spring, Md.; Mark S. Hillery, of Louisville, Ky.; James Patrick Jarvis of Greensboro, N.C.; Lawrence Chen Yin Ng, of Boston, Mass.; Mark F. Settle, of Rome, N.Y.; and Stephen G. Waller, of Oregon, Mo.

George Bolen and Thomas Fenstermacher are also distinguished military graduates.

Pistol Course

A five-week course in Basic Marksmanship for MIT staff and employees will be given by the MIT Pistol and Rifle Club beginning Thursday, June 14.

Holiday July 4

The Institute will be closed on Wednesday, July 4, in observance of Independence Day. All Institute holiday pay provisions will be in effect.

Personnel Offers English Classes

English conversation courses, covering basic through advanced levels and lasting 15 weeks, will be offered to MIT employees beginning June 15 by the Office of Personnel Development. Classes are scheduled for one hour twice a week.

Teaching materials used in the classes are especially designed for non-native English speakers and include audio-visual aids.

Employees interested in further information about the courses may contact Peter Jarvis, employee instructor, at Ext. 3-1912.

CLASSIFIED ADS

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. Only Institute extensions may be listed. Members of the community who have no extensions may submit ads by coming in person to the Tech Talk office, Room 5-111, and presenting Institute identification. Ads may be telephoned to Ext. 3-3270 or mailed to room 5-105. Please submit all ads before noon, Friday, June 8.

For Sale, Etc.

Aquariums, 2 complete. Chuck, x8-3360Draper.

Frigidaire, 13cu ft, 5yr, exc cond, \$125; dining table, opens for 8, \$10; dresser, lg, gd wd nds refinish, \$20; 2 tw beds, \$25ea; misc hse goods, living cntry. Lillian, x3-7033

Dining rm tbl, wd, 33"x47", leaf, 4chrs, free. Lillian, x3-1526.

Stove, elec, gd cond, \$30; tux, new, nvr worn, was \$200, ask \$50. Ben, x5451Linc.

Psych couch, '50 vintage, red leather, gd cond, \$40. John, x3-5838.

Refrig, med size, exc cond, \$25. Mary, x3-7453.

Boat, part comp, 20ft, deep V hull, \$995. Call x3-2255.

Bikes, boy's, 24" english, sgl spd, \$25; 20" 2spd, \$20; 16" sgl spd, \$15. Call x8-1137Draper.

Hotpoint refrig, frostfree, \$75; wash mach, Whirlpool, \$55; drapes, lined, wh w/orng, 96"x116", \$75; mirror, 68"x56", \$40; all exc cond. Call 698-9431evgs.

Tent, Hetrick, patio screen, nds new dr zipper, \$30. Call x3-7848.

Fish tank, 15gal, w/stand & acces, \$45 or best. Call x3-6116.

Membership MIT flying club. Chuck, x3-5239.

Stereo cart, Shure V-15, type II, used 4mos, \$25. Call x3-6395.

Couch, 2chrs, coffee tbl, 2end tbls, 2lamps, \$60. Call x3-2008.

Cooper GM-8 goaly glvs, used 1 seas, gd for yth hockey, \$6; Goodyr glass-belt tire, G-78x15, dual stripe ww, \$8. Joe, 926-1685evgs.

VW whl rim, 5 bolt, fits thru '65, \$5. Tony, x7191Linc.

Persian rug, 5'x7', \$260. Fred, x3-3831.

Purple Martin birdhse, trio 12 apt, 14" quick lock telescope pole, nvr used, new \$59, now \$40. Dean, x3-6306.

Goodyr polyglas belt tires, 2, C78x14, like new, \$40. Owen, 646-0167.

Konica Autoreflex-T, blk w/acces lens, exten tubes, filters; Leitz Metrastar lgt meter; complete photo-darkrm incl Simmon-Omega B-22 enlarger, W 50mm El-Nikkor f14, drier, washer, tank, etc. Call 731-0877evgs.

Membership flying club, \$50. Frank Garguilo, x112Millstone.

Vivitar 200mm lens, new, w/warranty, fits most cams, \$80. Kathy, x3-4873.

Firestone tires, 2, size 6.50x13, on Valiant rims, balanced, less 200mi use, \$30. Call x3-2720.

Twin bed, \$30. Call x3-7107.

Sailboat, rcng turnabout number 1021, sails, rig, trailer, exc cond. Cheryl, x3-4316.

Refrig, 13.1cu ft, exc cond, ask \$100. Donna, x3-4271.

Tenor banjo, Kay, 4str, w/case, \$65; mod wint desk; wool rug, 7'x13', grn, new, \$25; comb desk, cab, safe, \$25; port stereo & lp's, \$60; std Royal typwrtr, \$15. Call 494-8876.

Spd boat, 10', wd, steer whl, hand lever & throttle, gear controls, nwly recon 15hp Evinrude motor, 6gal tank, no trailer, \$275 or best. Hollis, x465Linc.

Shag rug, 9'x12', red, new \$200, now \$125 or best. Jean, x8-4466Draper.

Alumn screens, 10, var sizes: carry-all for Bel-Air or Chevy II, best. Paul, x8-3526Draper.

Canoe, 18', fiberglas, paddles, preservers, \$200; 1 1/2 hp Evinrude outbrd, \$75. Dick, x3-2761.

Minolta slide projector AFT, auto focus, rem control, timer, 5 round & 5 straight trays, orig \$130, now \$90. Panos, x3-7010.

Squash racket, \$8; 2 Solex 40 P-11 carbs, parts or rebuild, both \$5. Dick, x3-5560.

Smith-Corona typwrtr, port; twin bed frame; radio alarm clock; hair dry, port; flr fan, 3spd. Susan, x3-1525.

Tricycle, \$10; baby jump chr, \$2; infant mech auto swing, \$5; hockey skates: boys, sz 1, nvr used, \$5; sz 12 & 13, \$3ea; Hyde fig skates: boys, sz 2, exc cond, \$10; girls, sz 1 & 3, \$2ea. Ed Friedman, x3-3730lv msg.

Dbl bed, box spring, matt, hllywd frame, pick up in Wayland, \$15. Eugene Freuder, x3-5848.

Piano, exc cond, \$135. Ed, 391-1607.

Tent, Sears Ted Wms chalet, slps8, yr old, w/carry case, \$90. Don, x7328Linc.

Binoculars, 7x35, \$30. Pat, x8-1177Draper.

Boat, 14ft, wdm w/trailer, sturdy, \$300; motor, outbrd, Johnson, 40 hp, 1966, tuned by pro, \$300. Victor, x9768Dorm.

AR-3 spkrs, \$200. Call3-3903.

Clock-AM-FM radio-TV unit, \$75. Dave, x8-1157Draper.

Bike, mens, 10spd, new, \$80. Call x3-7084.

Bike, fem, sgl spd, best. Joyce, x3-1866.

Frigidaire apt refrig, \$20; study lamp w/mag lens, \$10; Spalding tennis rac, \$10; tripod, \$5; Sony digit clk/R, AM-FM, \$45; 25lb barbells, \$5; 650 carousel projector, \$60; '65 Rambler, 6cyl, std, \$175; S-C man port typwrtr, \$25. Dave, x3-6074.

Boat, Star 1960, 23 1/2ft, fiberglas, dacron sails, Lk Sunapee, \$800 or best. Bernie, x3-6091.

O'Day interclub sail dingy, new go-fast centrbrd & rudder, cover, dolly, \$475. Johnson, x3-4650.

TV/stereo/AM-FM radio comb, trans, port, 4spd auto-mix phono, 28lb, 11"x22"x9", ac or dc, 12v, \$110. Dave, x3-1857.

File cabinet, grn, 4 drws, \$15. Call 522-1506.

Vehicles

'64 Olds convert, mtr & trans exc, body lamentable, \$195. Call x3-7409.

'64 Chevy Impala sed, 2dr, auto, gd tires, runs well, best. Fred, x3-2484.

'65 Mercury colony park sta wgn, best reas. Tony, x7808Linc.

'65 Chevy SS, 327 eng, 4spd trans, bkt seats, body fair, int & mech v gd, extras: radtr, altnt, br drums, whls; best, living cntry. Ralph, x7320Linc.

'65 Ply Barracuda, 6 new tires, new batt, 4 Hearst clutch, FM converter, burns oil, some side panel rust, ask \$250. Anne, x3-7819.

'65 Suzuki, 150cc, gd cond, best offer. Lloyd, x3-7220.

'66 Chrysler NY, 2dr ht, p st & br, ac, elec wndw, gd cond, \$650 or best. Phil Felleman, x8-1504Draper.

'66 Dodge Coronet wgn, V8, 68K, runs well, body fair, p st, R, 2 mtd snws, 3 spares, \$325. Call x3-3354, 6/7 or aft.

'66 VW, v gd cond, must sell by 7/1, living cntry, \$650. Call 723-3755.

'67 Ford Fairlane sta wgn, 47K, exc cond, \$800. Paul, 354-1922 days, 494-8219evgs.

'67 Honda 150, rebt eng, w/helmet, \$100 or best. Susan, x3-5743.

'68 Peugeot 404 sta wgn, nds br & shocks, rusty, \$300 or best. Kathleen, x5870Linc.

'68 Volvo 142S, 50K, exc body, nds mech wk. Jack, x7377Linc, morn.

'68 Olds, Delmont 88, convert, exc cond. Call x121Linc.

'69 Chrysler NY, 4dr, beige, new auto, p wndw, ac, AM-FM, 2snws, \$1,800. Nina, x8-3333Draper.

'69 Fiat 850 coupe, 70K, well serviced, gd tires, nds body work, \$700 or best. Kate, x3-7747.

'69 Simca GLS 1204 sed, 4dr, front whl dr, disc brs, 44K, gd cond, reas. Call 646-3157evgs.

'70 Mustang, 71K, 6cyl, auto, p st, vinyl rf, wide ovals, \$1,000 or best. Call x3-4822.

'71 Pinto, 48K, R, snws, reliable, \$1350. Call x3-3762.

'73 Vega hatchbk, yel, 14K, new tires & snws, \$1,895. Lillian, x3-7033.

Housing

Arl Hgts, 9rm hse, 3-4BR, 1 1/2B, nr T, 8/26, unfurn, \$375 plus util. Call 643-0225evgs.

Beacon Hill, Mt Vernon St, lg airy apt, 3frplc, avail 7/1 w/opt, \$337. Call x3-1659.

Bk Bay nr H Brdg, 2BR, 2B, 2frplc, avail 9/1, \$325. Jean-Claude, x477Linc.

Beacon Hill, sum sub w/opt, lg studio, mod K&B, frplc, wash & dry in bldg, avail 6/8, \$195. Ruth, x8-2476Draper.

Bos, Comm Ave, nr Pub Gardens, lg studio, secure bldg, 6/1-6/30 w/opt, \$180. Helen, x3-3708.

Bos, Comm Ave, sum sub w/opt, studio, nr MIT, ptly furn, avail 7/1, \$150. Maria, x3-7594.

S. Bos, Carson Beach, studio, 15 min car MIT, avail now. Call x3-5643.

Brkln, Comm Ave, furn, incl park & util, \$145. Call x8-3486Draper.

Camb, H Sq, sub, 3 1/2rms, June-July or mthly, \$225, nego. Kitty, 547-0143aft 6pm.

Camb, nr MIT, 2BR, furn, heat, \$140. Tom, x3-6734.

Camb, 5rm hse, 1 1/2B, nwly renvtd, pking, yd, util, ref & security dep, \$350. Call x5777Linc.

Camb, Mass Ave, sum sub w/opt, 5 min MIT, BR, lg K, d/wash, disp, avail 6/9, \$170. Joel, x3-1852.

Camb-Som line, nr Inman & Har Sq, sum sub w/opt, avail 6/6, lg mod apt, 2BR, LR, K, unfurn, \$198 incl heat, nego. Call 628-2664wkday, 6-9pm.

Concord, 4BR colonial, 2 1/2B, LR w/frplc, lg DR&K, playrm, scr porch, dbl garage, carpet, drapes, safe st, no pets, 1 or 2yr lease, avail 7/1, \$450. James, x210Linc.

Concord, 4BR colonial, den, fam rm, playrm, 2 acres, nr sch, tennis, pool, \$80,000. Call x381Linc.

Lincoln, 4BR hse, lg yard, encl by trees, 2B, furn or un, avail end Aug for yr, \$400mo. Call x3-1986.

Som, sub 6/1-8/30 w/opt, BR, ac, disp, ww, pking, new bldg, \$230. Linda, x3-6757.

Watertown, BR, LR, K, B, h & water, pking, nr T, avail 7/1, \$175. x3-2433.

Watertown, 3BR, 2B, LR, DR, K, panel & beam ceil, util rm, pantry, lg fence yd, ww, ac, d/wash, disp, dbl carport, 15min to Har Sq by T, lease, avail 7/23, \$325. Call x3-7862.

Furn rm, 8rm hse, priv K, nr bus, pking, no pets, avail now. Jane, x5549Linc.

Cape, Buzz Bay, sum cott, nr swim pool & actvty, \$100/wk. Bob, x7807Linc.

Cape, Wellfleet, 1st flr apt, slps 4, priv beach, July/Aug \$600/mo, June/Sept \$475/mo. Call 332-0145evgs.

Stow, 4BR garrison colonial, nr Linc Lab, 2acres, undergrnd util, low \$50's. Joseph, x5837Linc.

Maine, nr Saddleback Mt, 3BR hse, new lux contemp, huge lake, wilderness area, superb view, extras, swim, hike, fish, canoe incl w/rent. x8-2577 or 8-3584Draper.

W Woburn, Horn Pond area, 3BR contemp rch, 1 1/2B, playrm, K, lg priv lot, \$39,900. Call x470Linc.

Animals

Tropical fish, tetras, angles, guppies, etc, free. Hutch or AI, x3-5620.

Kittens, gray str tabby, 6wks, trained, free. Call x3-6746.

Kittens, 2: cat, f, yng, spayed, loving, nd gd homes. John Gruenstein, x3-2030.

Irish setter, AKC, m, 2yrs, \$125. Jim, x3-3521.

Old eng sheepdog pups, AKC, champ line, all wh heads, ready end July. David, x8-1286Draper.

Siamese kittens, bl & lilac points, CFA reg, \$15. Dotty, x3-7729.

Lost and Found

Lost: kitten, f, 8wks, blk, lg hair, wh star under chin, in stu cntr, 12n, May 31. Linda, x3-4885.

Wanted

'65 Chevy II body, 2dr, sed, cheap. Bronna, x3-4603.

Rmmtes, 2, Wrtwn, 5BR apt, own rm, \$60 + util and \$45 + util. Bruce, x3-1448.

Rmmate, fem, 1 or 2, Beacon Hill apt, furn, quiet, comfort, avail now for sum or perm, \$75ea. Call x3-3210.

Rmmates, 1 or 2, Bk Bay, 2 BR, ac, \$250 for sum. John, 266-3297.

Rmmate, non-smoking fem, grad stu, lg clean Cambport apt. Frances, x3-4724.

Used wd airplane prop. Jane or Robin, x8-1381Draper.

Car pool, Wayland-Linc area to MIT. Larry, x3-2691.

Rmmate, fem, 24+, non-smoker, clean, own rm in 2BR apt, nr Har & MIT, bsmt, sunprch, yd, avail 6/1, \$93 incl util & pking. Judy, x3-5743.

Mini-bike, used, gd cond. Earle, x8-1566Draper.

Miscellaneous

Typing, gen & thesis. Carole, x3-4441.

Sub or hsesitting, mature woman & daughter, 6/15-6/29. Call 244-1238.

Chem major nds work, 10-15 hrs/wk, typing, keypunch, lab, yd, etc. Mike Delaney, x0570Dorm or x3-2384.

Learn to fix your car, mech & body, tools & gar prov; stud snws 6.35x15, 2prs, best. Call x3-7597.

Day care, sum, ages 5-7, grad stu w/prof exp, dly activities, \$25/wk. Bob, x3-7457.

Trees cut down, free est, reas. John D., x8-3494Draper.

Positions Available

This list includes all non-academic jobs currently available on the M.I.T. campus. A duplicate list is posted each Friday preceding Tech Talk publication date on the Women's Kiosk in the Bldg. 7 lobby, and on the bulletin board outside the Office of Minority Affairs, 4-144. This list is also posted in the Personnel Office, E19-239, on the day of Tech Talk publication. These posting are provided to encourage individuals from within the Institute to apply for positions for which they feel they qualify.

For an appointment of additional information, call the Personnel Office on extension 3-4251. (The number noted after each job is for identification.)

Administrative Staff - Assistant Director for a program which provides member industrial firms direct and convenient access to Institute's educational and research programs, while at the same time providing the Institute with unrestricted financial assistance and professional relationships. Primary responsibility would be liaison function between MIT faculty and research staff and representatives of participating companies. Requirements include Bachelor's degree (MIT preferred), approximately two years of technical experience (preferably engineering) and management perspective (MBA preferred and ability to deal with executives of small to medium-size corporations). 73-508

DSR Research Staff member will conduct independent computer programming and analysis of census and other related housing data in connection with studies of metropolitan and national housing needs. Experience with housing data analysis, ability to present complex data in written and graphic form, academic background in urban studies and/or economics required. 73-476

Administrative Staff Assistant to the Director of budget planning area. Will work on the MIT Operating Plan. Assist with the preparation of special studies and the total cost and income of departments. Degree in Accounting or Finance with a minimum of 3 yrs. experience (preferably at M.I.T.) in accounting or administrative duties is necessary. 73-458

Technical Assistant - DSR Staff will work in a lab studying the problems of motor control and motor coordination in mammals. Will handle computer analysis of experimental data; will construct and design training devices for mammals; train and care for animals; manufacture micro and macroelectrodes; assist with surgery and record data. Electrical Engineering degree, familiarity with elementary electronics and digital logic, and willingness to work with animals essential. 73-486

Research Assistant - DSR Staff will assist in the study of the natural gas and oil industries. Familiarity with the concepts of basic economics; ability to manage a large computerized data base and to organize and coordinate the activities of other part-time research assistants; strong background in applied econometrics is required. Masters degree preferred; Bachelor's degree acceptable. 73-173

Executive Officer - DSR Staff for Mid-Ocean Dynamics group will manage multi-institutional and international oceanographic deep sea program; supervise, under responsibility to the Co-chairman of the MODE Executive Office, overall responsibility for all project funding, logistics of the field program, scheduling of ships and projects, publication of results, and planning future field work projects. PhD physical oceanographer required; experience as Chief Scientist, having conducted research at sea. Ability to write and negotiate proposals, experience with relevant Washington agencies, good theoretical knowledge of geophysical fluid dynamics. Fluent English; Russian language useful. 73-325

Administrative Staff - Assistant Director in an administrative office dealing in resource development will handle specific tasks of educational fund-raising; extensive writing of letters, memoranda, statements on priorities, some proposals and informational studies. Must have a minimum of three years active, consecutive experience in fund-raising, preferably in a university environment. Effective writing skills, ability to communicate verbally, professionalism and career motivation important. Exposure to data processing systems useful. BA required; advanced degrees are welcomed. 73-479

Administrative Staff member will work in area of resource development dealing with individual contributors. Develop strategies and programs, prepare reports, provide advice and counsel of a legal nature for resource development activity. Some travel required to represent M.I.T. Must have legal training and preferably some experience as a counselor in practice or in a job situation utilizing legal training. Writing and organizational ability, motivation, enthusiasm required. 73-480

Administrative Staff member will coordinate EDP systems operated in resource planning as part of private gift support programs. Duties will include system maintenance, updates, changes, and interaction with OAIS, but will not include programming and related technical operations. Requirements call for analytical interests and ability to work with data, plus previous exposure to EDP via card or information systems. Accounting orientation could be helpful. 73-453

Administrative Staff member will provide advisory and programmatic services and radiation protection for all Institute laboratories using sources of potentially harmful radiation. M.S. in Radiological Health with 2 years experience; or B.S. in R.H. with 4 years experience. Will interview, instruct, lecture, and conduct radiation surveys, supervise Radiation Protection Technicians. 73-174

DSR Staff Marine Liaison Representative will assist the project Advisory Service Officer in planning, organizing, and implementing programs which will provide technical assistance to persons engaged in activities involving the resources of the coastal zone and the ocean; identify the problems and needs of the marine resources users and assist in the conduct of a marine extension program. The agent will travel as necessary to provide regular coverage to the marine community in Mass. and the New England Region. Bachelor's or higher degree in biological, engineering or fishing science, natural resource management, or four years experience in an agency or marine industry. Must have strong interest in marine-oriented endeavors. 73-358

Administrative Assistant (Staff) will administer payroll, personnel, benefits, procedures. Assist the Director with budget preparation; monitor accounts; handle property control, safety; schedule work assignments and tours. A mature individual with several years administrative experience and technical and business background required. Located off campus at Haystack Observatory. 73-388

DSR Staff member will conduct economic analysis of experimental and proposed direct housing allowance programs in connection with a research program in urban studies. Ph.D., or equivalent in economics with specialization in the economics of urban housing is required. 73-348

Industrial Hygienist - (Academic Staff) will work in the Environmental Medical Service to study and control occupational disease and other environmental factors such as noise, heat, pressure and toxic materials that may be physically or chemically hazardous to employee health. Will work closely with physicians, depts., supervisors. BS in Chemical Engineering is required. 73-336

Administrative Staff member will work in hazard control activities and the use of lasers, microwave devices, ultraviolet sources and the use of Radioisotopes. BS in Radiological Health, Electrical Engineering or Physics, with some training and experience in Radiation Protection. 73-183

Administrative Staff member will administer sponsored projects, including proposal review grant and contract negotiations, and post-award administration. Minimum of two years experience in administration of sponsored programs in a university or hospital. Familiarity with Public Health Services grant regulations and procedures will be needed to administer grants from the National Institutes of Health and private foundations involving research in sciences related to health. 73-448

Administrative Staff member will provide substantial writing support for resource development activities. Tasks will include preparation of proposals for major private donors, pamphlets supporting planned giving program, and correspondence. The position is sensitive and demanding. College graduate with previous writing experience and a sense of humor required. 73-452

Administrative Staff member will write press releases on Institute activities in art and music, provide direct contact with the news media for promotion of these events, act as liaison between Institute offices. Knowledge of various news media, reporting skills and ability to make independent judgments required. Should have at least three years experience writing news, editing, etc., for a metropolitan daily newspaper. 73-437

Biochemist - DSR Staff member will participate in lipoprotein studies, and will supervise the activities of several technicians in a clinical research setting. PhD or MD in Biochemistry required, as well as experience with lipoprotein and supervising. 73-515

Senior Secretary V to Director, Associate Director, and Executive Officer of a research lab. Type technical reports, thesis correspondence; assist in preparation of technical proposals; handle travel arrangements and appointments; maintain office files and library of technical documents. Individual will need a security clearance, and must have strong secretarial experience. 73-405

Senior Secretary V will work for academic department Chairman. Will type correspondence from dictaphone; arrange appointments, meetings, and travel; answer routine correspondence. Three to five years secretarial experience, good typing, good judgment and ability to establish priorities and handle a generally heavy workload in a busy atmosphere. 73-445

Secretary IV or Senior Secretary V to the Director and Assist. Director of an Interdepartmental Laboratory will type technical reports and journal articles. Occasionally coordinate office workload; handle all general secretarial procedures. Excellent shorthand and typing skills, 3-5 years experience and ability to learn technical typing required. 73-342

Senior Secretary V will work for a Dean; answer some correspondence, arrange meetings, appointments and travel, maintain confidential files. Excellent typing and shorthand skills needed, previous experience in an academic atmosphere preferred. Poise, tact, good judgment, ability to establish priorities in work important. 73-253

Senior Secretary V to Division Head of an engineering department will handle administrative duties; coordinate the office workload; monitor budget records; maintain busy office schedules; perform special studies; document research and publications; maintain divisional student records. Knowledge of MIT is helpful, ability to handle accounting data, good secretarial skills (shorthand helpful), ability to establish priorities and organize important files. 73-494

Secretary IV in Academic Department will handle general secretarial duties for one staff member. Type reports and manuscripts using specialized terminology from handwritten copy and dictaphone; may also involve some editing. Previous secretarial experience required. 73-498

Secretary IV in Academic Department for head of a group will type correspondence, maintain petty cash account and do bookkeeping on DSR accounts, order supplies, make travel arrangements, schedule appointments. Excellent typing skills (including technical typing), organizational ability required. 73-503

Secretary IV will handle secretarial duties in an administrative office. Type all correspondence, frequently drafting original form verbal instructions; maintain budget records, verify monthly financial statements. Will need strong typing and dictaphone skills; ability to work under pressure important. 73-495

Secretary IV will handle hourly and student payrolls for the department, order supplies, type from rough draft and dictaphone. Good typing important, knowledge of M.I.T. payroll systems helpful. Temporary from Sept. to June 1974. 73-365

Secretary IV in busy academic department will handle secretarial duties; assist with administrative matters. Type research proposals, correspondence; handle student payroll; maintain records of expenditures. Responsible for department Microprobe facility. Strong typing skills; ability to work with figures important. Establish priorities and work independently. 73-441

Secretary IV will perform secretarial duties for the administrative officer of an academic department. Maintain department contract and personnel records. Excellent shorthand, dictaphone, typing skills needed. Organizational ability, familiarity with keypunch or computers desirable. 73-390

Secretary IV will assist in programs related to industrial and social applications of technology. Take dictation, compose short memos and letters, type reports and correspondence, arrange meetings. Ability to establish priorities, good typing, shorthand and organizational skills important. 73-483

Secretary IV to academic department Executive Officer will type faculty and staff appts., catalog information, maintain personnel files, and records in an on-line computer system, accurate typing required. Will be trained in the use of an interactive computer system. Able to work independently. 73-484

Secretary IV to the Associate Department Head of an engineering department. Good typing and shorthand skills are needed for general office functions. Handle travel arrangements and appointment calendar, maintain files and records. 73-468

Secretary IV to two professors. Good shorthand and typing required for correspondence, reports. Maturity, ability to work independently, and to interact with members of the MIT community important. 73-297

Secretary IV to four professor will need good skills of shorthand, dictaphone and typing to handle technical reports and journal articles. Will maintain student records and answer requests for information associated with them. 73-232

Secretary III-IV to three professors in an academic department. Will type quizzes, reports, technical manuscripts; handle reception duties; maintain department library. Organizational ability, excellent typing and dictaphone skills needed. 73-405

Secretary III-IV two openings in an academic department working for 2-3 professors. Good skills of shorthand and typing, organizational ability and experience required. 73-323, 73-322

Secretary III or IV will provide secretarial support of a Professor involved with journal editing and economics research. Maintain files of materials for publication, type manuscripts from rough copy (some technical), handle other general secretarial duties. Good typing and strong organizational ability required. 73-462

Secretary III will handle general secretarial work of typing memorandums, research summaries, class notes, correspondence, technical papers; xeroxing of class material; assist with billing and purchasing procedures for an administrative officer and for a professor. Good typing skills and knowledge of accounting and office procedures important. 73-455

Secretary III will assist with an academic headquarter's secretarial duties; act as liaison with department members. Individual with good typing and office skills will also fill in for other secretaries in busy office. 73-424

Secretary III will handle general reception duties for small academic department headquarters office. Good typing skills needed for correspondence and manuscripts. Maintain student records, order text books, arrange for films for courses. Shorthand helpful. 73-457

Secretary III to a group of faculty, staff, and students will type letters, technical reports and manuscripts; handle general office duties. Good grammar and spelling, and the ability to proofread and edit the material of the foreign staff important. 73-440

Secretary III to four professors. Will do technical typing on reports, manuscripts, proposals; handle student payroll; coordinate mailing lists. Good typing skills, ability to establish priorities important. 73-402

Secretary III will transcribe from dictaphone, letters, reports, memos; administer routine office procedures, maintain account records and books. Knowledge of grammar; organizational ability; initiative, flexibility, accurate typing skills required. 73-493

Secretary III in research lab will take and transcribe dictation and type technical papers and statistical data involving specialized terminology. Maintain files and records, perform reception duties, schedule appointments. Secretarial school graduate or some previous experience and background and experience in linguistics required. 73-505

Secretary III will handle reception duties for busy student-oriented administrative office; maintain files and complex schedules. Good typing and dictaphone skills required, as well as previous office experience. 73-429

Secretary III will provide secretarial support for several professors in an academic department. Work closely with professors and students; type class material and homework sets. Good typing skills desired. 73-431

Secretary III in project lab will need some previous office experience and good typing skill for typing technical reports and handling other general secretarial duties; use of some edit routines on Multics computer terminals. 73-319

Systems Programmer will work in the Program Development Office as a full-time Multics System Programmer. Two or three years experience with the Multics System and PL/I is required. Other experience in system design and programming desirable. 73-466.

Systems Programmer will work full-time in the Programming Development Office on the 370/165. The job will consist of system programming and maintenance, systems assurance, and user interface functions. Applicants should be familiar with the internals of OS/MVT and have a good working knowledge of OS assembler language. Experience with TSO desirable. 73-384.

Computer Operator IV will operate IBM Model 135 and all peripheral equipment associated with it, including disc drives, tape units, card reader/punch, printers. Must have a good knowledge of DOS job control, multi-programming experience and be capable of understanding operating instructions. 4pm-12:30am shift. 73-443.

Keypunch Operator III will punch into computer input cards formatted and unformatted documents. Will operate IBM 029 keypunch machine. Minimum of two years experience required; familiarity with the creation of program drum cards important. 73-444.

Keypunch Operator II or III will work on Inforex Keytape System; responsible for keypunching journal voucher input. Experienced keypunch or keytape operator needed. 73-385.

Computer Technical Assistant V will be responsible for all input into the computer system for the book order process: categorizing orders, generate invoices, process foreign orders, process special coding and entries, generate new codes and records on new books and accounts, update all computer input. Individual must have ability and interest in Electronic Data Processing. Maturity, a good memory, ability to handle details with precision most important. 73-467.

Senior Clerk IV in administrative office will maintain listing of both career opportunities and interested alumni; establish cross reference for files, prepare monthly statistical reports. Accurate typing desired. 35 hr/wk: 8am-4pm. 73-407.

Accounting Clerk III in academic department will handle payroll procedures, petty cash, purchasing and payment procedures, billings, monthly summary statements, miscellaneous analysis, maintain Data Information Systems. Accounting experience helpful; discretion very important. 73-430.

Senior Clerk III will type travel expense checks, verify IBM card record of payment vouchers, investigate the applicability of travel expense transfer from one research project to another; answer questions. Accurate typing skills, and ability to communicate via telephone required. 73-501.

Senior Clerk III will verify all bills to be paid against checks issued and mailed, photostats of the walk-thru checks after confirming authorized signature. Accuracy in typing and work skills important. 73-502.

Technical Typist III will type manuscripts and reports from rough data. Responsible for punctuation and paragraphing may involve some editing for preparation for publishing. Excellent skills, minimum of one years experience. 73-397.

Senior Clerk III will provide Customer service for publications section. Answer telephones and correspondence regarding errors and complaints on shipments; handle debit and credit memos; vouchers and order acknowledgements. Candidate must be a mature individual with good typing and the ability to communicate intelligently. 73-450.

Senior Clerk III in schedules and publications office will handle room reservations and scheduling information. Type correspondence; keypunch master subject cards. Ability to work with details important. 73-270.

Clerk Typist II will work in lab publications area. Fill publication requests, receive printed material, sort and file reports, type publication records. Ability to follow detailed office procedures important. 73-451.

Clerk II will pull, file and dispatch medical records; assist with maintenance of patient files. Previous office experience required; accuracy in work very important in very busy office. Must be able to stand on his/her feet all day. 40 hr/wk. 8am-5pm. 73-475.

Senior Library Assistant IV will be responsible for the Interlibrary Loan operation: verify requests, process materials, maintain files, type correspondence. Assist at the Information Desk; perform bibliographic searches. Previous library experience, organizational skill required. Foreign languages useful. 73-510

Library General Assistant III will process monographs: sort incoming orders, verify bibliographic data, prepare computer input for receipts, maintain other records. Library experience desirable, preferably in acquisitions. Knowledge of foreign languages helpful. Ability to work with details important. 73-514

Library General Assistant III will record and process government and supranational serials and journals; prepare claims for missing issues, process subscription orders and set up additional files. College background, previous experience, foreign languages of value but not essential. Neatness, accuracy, capacity for details and ability to type important. 73-509

Library Assistant III will assist in circulation procedures: maintain records and statistics, check materials in and out of library, type overdue notices and collect fines. Individual will also work in Reference and Information areas. Interest in library procedures, efficiency in maintaining good library relations, ability to deal with people effectively important. 73-464

Library General Assistant III will perform circulation desk routines: renewals, reserves for books, overdue procedures, maintain statistics and records, supervise student personnel. Also responsible for stacking routines. Accurate typing; efficiency important. Will share responsibilities with other night library assistants. M-Th 4-12 pm, Fr 3-11 pm. May alternate weekend assignments. 73-511

Library General Assistant III or Sr. Library Assistant IV will be responsible for circulation and reserve desk operations: inventory, shelving, overdue notice procedures, searches, records and statistics. Will train desk assistants in library procedures. Responsible individual with good judgment, organizational skills required; previous experience helpful. 73-491

Dental Assistant III will assist the Dentists and Dental Hygienists with dental procedures, prepare dental solutions, sterilize instruments, maintain examination rooms and records. Dental Assistant training required. Previous experience helpful. 37½ hr/week, 8:30-5:00. 73-490

Administrative Assistant V will be responsible for exhibition catalogues, brochures, poster copy; research exhibition subjects; write grant and support proposals. Solid background in art history and literature; some editorial experience; writing ability, and knowledge of library research required. Small amount of typing necessary. 73-456

Accounting Control Exempt Staff member will control flow of work of the accounting office to data processing; supervise distribution and mailing of the Account Reporting System and clerical staff who handle computer input and output. Ability to work independently with good organization important. Occasionally evening hours required, waiting for computer edits. 73-489

Electronic Technician A will operate, maintain, and repair commercial electronic instruments. Will assist in laboratory, research, or analytical work under direction of scientific personnel. Graduate from a two year day technical school or its equivalent and a minimum of two years experience in trouble shooting and repairing instruments, especially oscilloscopes and digital measuring equipment. 73-391

2nd Class Engineer must have a Mass. second class Engineer's license or higher. Individual must be willing to work on any shift. 73-182

Architectural Draftsman will develop architectural plans, elevations and details of Institute remodeling and alteration work. Technical school graduate with 5-10 years. experience, knowledge of electrical and mechanical systems helpful. 40hr/week. 73-396

Clinical Research Nurse will assist scientists and physicians in research procedures. Work being done at this 12-bed unit includes research in cardiology, clinical nutrition and biomedical engineering. Must be a Mass. Registered Nurse with at least 2 years hospital experience. 4 pm-12 midnight shift. 73-236

Technical Artist IV will illustrate components and assemblies as free hand renderings, isometric, perspective or other visual forms. Typing skills, knowledge of composition, drafting, and Leroy lettering. Will work on graphs and charts and use typing skills. Two years of art school plus a minimum of two years experience in technical illustration required. 73-506

Electrician will install and maintain all types of electrical equipment and systems; work from blueprints, verbal instructions, sketches. Some electronic experience desirable, minimum of 5 years applicable experience and a Mass. State License required. May work on an irregular schedule as determined by the needs of the Electric Shop; ability to work any shift. 73-497, 73-496

Photographer B will assist in photographic work under the direction of photographic personnel. Make continuous tone and line copies for prints and slides; carry through dark room and finishing work; assist with camera work. Minimum of two years experience required; industrial photography background desirable. 40 hr/wk; 8 am-4:30 pm. 73-371

Campus Patrolmen/Patrolwomen Recruits will become proficient in all phases of law enforcement: traffic control, patrol of buildings and grounds. Administer first aid; participate in emergency procedures, investigations; write reports and other general police duties. Ability to learn all phases of law enforcement: court procedures, case preparation, investigation and reporting of complaints. Prior experience as mobile radio operator, first aid worker or a familiarity with the use of firearms is desirable. A valid driver's license, honorable discharge for any earlier police service, ability to work long hours on occasion and rotating shifts is required. Must be able to handle top level public relations. Physical requirements: Height: 5 feet, 8 inches.

Maintenance Mechanic will service, maintain, and repair bookcases, shelves, cabinets, partitions, furniture; may install locks, vacuum lines, lamps etc. Class 1 or 2 Mass. Drivers License, 3 years experience operating a large truck (24,000 lbs GVW), will operate fork lift vehicle and go on out-of-state trips. 40 hr. work week. 73-316

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1,290 Receive Degrees at 107th MIT Commencement

(Continued from page 1)

least on the selected timetable, with the resources usually allocated to them and in the legal and social context that exists. We repeatedly put ourselves into impossible situations this way and when we fail to achieve the unrealistic objectives, we react with bitterness."

Dr. Wiesner said society's problems in this regard reflected a human trait. "For the individual," he said, "the process that he is part of day after day can be fulfilling or frustrating, enriching or debasing, and although it is clearly a vital matter—it is his life—rarely is this process a prime consideration, even in a university. It seems to me our society is suffering in a similar way: there are too many encounters with frustrating processes."

But, he added that there are "signs of change."

"This is the lesson young people have been trying to teach us. We are beginning to focus on the journey as well as the objective. Workers shun some jobs and students shun some forms of education. Both are trying to make their environments more nearly meet their expectations. How something is accomplished may be as significant or possibly even more important to the participant than what is done. Industry and universities are trying to understand and respond."

Dr. Wiesner said it was futile to think that any goal could be "legislated into existence."

"In most situations, the overlooked human elements completely overshadow any technical component and one aspect interacts with another," he said. "The clearly desirable efforts to control environmental pollution, for example, have certainly helped bring on the energy crisis and have had many other substantial and costly consequences that were not anticipated when the environmental legislation was enacted." He continued:

"Inevitably, many of the most ambitious and desirable social goals prove more elusive and more costly and time-consuming than predicted, so that in spite of genuine progress, impatience, disillusionment and alienation occur and cause the programs to



NEW TRADITION—Howard W. Johnson, left, chairman of the Corporation, and Hartley Rogers, outgoing chairman of the faculty, examine a new staff of office Professor Rogers has given the Institute. Professor Rogers bought the shepherd's crook in north Wales at about the same time he became chairman of the faculty two years ago. Recently he had silver bands attached to it, one with a Latin inscription *floreat collegium*, "may the college flourish," and the other to be inscribed with the names of chairmen of the faculty.

—Photo by Susan Pogony

be drastically modified or abandoned."

"The federal government is phasing out a vast collection of education, health, urban and research programs that its leaders judge to be inadequate or obsolete and which will leave a vacuum that will clearly need to be filled since the problems are still there," he continued.

"Now is a good moment to look at processes that seem to be wanting and goals that are overly ambitious with a broader vision of the complexities involved in order to create programs that are more effective and less divisive."

Dr. Wiesner took note of the special problems that exist in dealing with social problems.

"When a technical goal is proposed, well-established techniques are used for studying its feasibility. Design and management methods—processes—are at the same time available for achieving it if it appears desirable," he said.

But while the moon stands still for purposes of research and exploration, he said, "social goals are not standing targets."

"Here, the uncertainty principle works with a vengeance," he continued. "In setting out to meet social needs, whether or not they involve technology, we have failed to face the changing, complex and little-understood nature of the processes which would have to be employed. In fact, one rarely even inquires as to whether restraints imposed by the social setting or the resources available allow the goals to be achieved at all."

Dr. Wiesner, who was science advisor to Presidents John F. Kennedy and Lyndon B. Johnson, said that in planning for the manned space program, "a reasonable understanding existed of how to get a man to the moon and back and what it would cost."

"We knew what exploratory experiments needed to be done and we had estimates of the technical manpower and other resources that would be needed for the task and we even had a rough estimate of the time required for the program," he said.

"Contrast this situation," he said, "with the legislation for educational reform or the various proposals for a Great Society which were just pulled together in time to be presented to Congress without enough serious study or pilot programs to back them up."

More than 4,500 persons attended the commencement, at which some 1,450 degrees were conferred. Some of the graduates received more than one degree.

All told, there were some 840 bachelor degrees, 392 master of science degrees, 18 master of architecture degrees, 16 master of architecture in advanced studies degrees, 21 master in city planning degrees, 74 engineer degrees, 23 doctor of science degrees and 103 doctor of philosophy degrees.

Included among the degree recipients—on the 100th anniversary of the first woman to graduate from MIT—were 99 women. The 57 women undergraduates and 42 graduate students represented the largest number of women graduates in the Institute's history.

At least five MIT staff and faculty members had sons or daughters among the graduates, and one saw both his daughter and son-in-law graduate. He was Dr. Nathan H. Cook of Cambridge, professor of mechanical engineering. His daughter, Nancy G. Slutz, received a bachelor's degree in mechanical engineering, and his son-in-law, Robert A. Slutz, received a master's degree in mechanical engineering.

In addition:

Robert G. Wynne, son of John M. Wynne, of Chestnut Hill, vice president, administration and personnel, received a master's degree in management; Ellen E. Reintjes, daughter of professor of electrical engineering J. Francis Reintjes, of Belmont, a bachelor's degree in urban studies; Inez D. Hope, daughter of Mary A. Hope, of Dorchester, assistant dean for student affairs, a bachelor's degree in electrical engineering; David Lee, son of professor of mechanical engineering Shih-Ying Lee, of Lincoln, a bachelor's degree in mechanical engineering.

Commencement was presided



Comedian Dick Gregory was the Class Day speaker for seniors and their guests Thursday, May 31, in Kresge.

—Photo by Calvin Campbell

over as is customary by the chairman of the Corporation, Howard W. Johnson. Dr. James Rhyne Killian, Jr., former president and now honorary chairman of the Corporation, occupied a seat of honor on the stage.

Seated with the guests of honor were the members of the senior class executive committee and the president of the Graduate Student Council. They were:

Robert J. Longair of Calgary, Alta., Canada, permanent president of the Class of 1973; Steven R. Taylor of Flint, Mich., vice president; Joy C. Judell of Ridgefield, Ct., secretary-treasurer; and Alfred R. Doig, Jr., of Hyde Park, Graduate Student Council.

Breene M. Kerr of Oklahoma City, Okla., retiring president of the MIT Alumni Association, led the academic procession. It included some 100 members of the 50-year reunion Class of 1923. Marshal for the class was its secretary-treasurer, Thomas E. Rounds, of Danbury, Ct.

Other commencement principals included: Chancellor Paul E. Gray and the Rev. Stanley F. MacNevin, MIT Roman Catholic chaplain, who gave the invocation.

Following commencement, graduates, visitors and alumni gathered under tents in the Great Court for the annual President's Luncheon.

Speakers at the President's luncheon, by tradition, are members of classes 50 years apart. Speaking for the Class of 1923 was Dr. Julius Adams Stratton, MIT president from 1959 to 1965 and a former chairman of the Ford Foundation. Mr. Longair spoke for the Class of 1973.

In his prepared remarks, Dr. Stratton warned the 1973 graduates against "relegating to science the responsibility for moral decisions that man alone must make."

"We must beware also lest we

discard basic moral principles in the expectation that science will take care of the consequences," he said. "The remedy for our present ills—such as they are—lies in clearer understanding of the meaning and potential consequences of what we do and an awakened moral and aesthetic sensitivity in deciding where we go."

At Class Day exercises in Kresge Auditorium last Thursday, May 31, political commentator and humorist Dick Gregory urged graduating seniors to "understand who you are and what you're all about."

In an hour-long address, Gregory ranged from the church to parenthood to Clifford Irving. Sometimes humorous, sometimes serious, he reserved his most pungent comments, however, for the Watergate scandal.

"If I had been in this auditorium last year at this time and told you next year John Mitchell would be on his way to jail and Bobby Seale would have run for mayor of Oakland, you would have thought I was nuts," he said.

Other Gregory comments:

On college students: "I spend 98 percent of my time on college campuses because I believe today's students are the most moral in the history of the country."

On food prices: "My wife used to cry when she peeled onions, now she cries when she buys them."

On the 1972 election: "I hope the country learned a lesson—that when you run around freaking out about law and order, and don't question where is justice, that you are headed down the same road the Nazis took, and that we were just lucky this time."

At the conclusion of his speech, Gregory was given a citation by the black graduating seniors of MIT for his "efforts in bringing the message of brotherhood and peace to the world."

Alan Grodzinsky Wins Goodwin Medal

Alan J. Grodzinsky, a graduate student in electrical engineering, has been selected the 1973 Goodwin Medallist.

An honorarium of \$500, is awarded annually to one or more graduate students for conspicuously effective teaching. It was established by family in memory of Harry Manley Goodwin, the first dean of the MIT Graduate School. Dr. Irwin W. Sizer, now dean of the Graduate School, made the presentation to Mr. Grodzinsky at a luncheon following Commencement Exercises, Friday, June 1.

Mr. Grodzinsky, from

Levittown, N.Y., received SB and SM degrees in electrical engineering in 1971 and expects to complete his doctoral work in 1974. He has been teaching since he was an undergraduate. In his junior year he assisted a faculty member in one subject and as a senior he was appointed a teaching assistant. He was promoted to instructor in 1972.

"His ability to communicate ideas is exceptional," wrote one student in nominating Mr. Grodzinsky. "He is able to analyze even the most difficult problems and explain them in terms that are easy to understand. He has a warm

personal approach to education that inspires student interest...his humor and zest for the material motivates his students to enjoy learning."

Mr. Grodzinsky's nomination was supported by several members of the faculty as well as a number of other students. In addition, a computer-aided student evaluation of the electrical engineering teaching staff substantiated Mr. Grodzinsky's teaching abilities.

Outside the classroom, Mr. Grodzinsky is a member of the MIT Symphony Orchestra and plays the viola in a string quartet with the intriguing name of "No Dogs Allowed."

Classified Ads

(Continued from page 7)

EDP Procedures Analyst/Special Projects Coordinator - Exempt Staff - will evaluate and improve operating efficiency of a 370/DOS installation. Design and implement processing technique changes. Experience with data processing control procedures, job streaming, DOS JCL, scheduling multi-programming, operational flowcharting, creation and maintenance of operations run books, run sheets, key punch manuals, and documentation. 73-434

Application Programmers - Admin. Staff the office of Administrative Information Systems is seeking two Application Programmers to take program specifications and translate them into an efficient computer program. The process includes the evaluation of specifications, flowcharting, coding, testing, debugging and final program documentation. Knowledge of IBM DOS ANS COBOL and/or PL/1. Knowledge of 360 Assembler Language desirable; experience with university accounting or teleprocessing applications helpful. 73-340, 73-341

Systems Analyst - Admin. Staff for the office of Administrative Information Systems will design financial and/or administrative applications to be run on a medium-sized computer. Duties include making feasibility studies, system flowcharting, defining programming specifications, conducting system tests, implementation, documentation and client education. Experience in designing financial applications, teleprocessing applications, data base management systems and a working knowledge of ANS, COBOL and/or PL/1 is desired. 73-330