Massachusetts Institute of Technology



October 30, 1974 Volume 19 Number 18

Blue Cross-Blue Shield Increase

John M. Wynne, vice president for administration and personnel, has announced several changes in the Institute's Blue Cross and Blue Shield Master Medical Plan for all persons at MIT who are members of the Plan.

Significant improvements have been made in the benefit provisions of the Plan.

Maternity benefits for in-hospital expense was increased from \$100 to \$400 for all members of the Plan. The lifetime maximum for extended benefits has been increased from \$50,000 to \$250,000, likewise for all members of the Plan. In addition, all benefits of the Plan are extended to cover children over age 19 who are full-time students and who have not reached age 23

These improvements were made effective retroactive to last July 1, for faculty and staff, and for all other persons not represented by a collective bargaining unit. The effective date for employees represented by a bargaining unit is the date of the recently negotiated agreement between the Institute and the particular bargaining unit.

Unfortunately, costs of medical services have continued to rise rapidly, and although there has been no increase in the amount contributed by any members of the Plan for nearly three years, the Institute must now increase the contribution rate by participants. For members of the faculty and staff, the changes will be effective with the October 31 salary payment. For exempt personnel it will be effective with the November salary. The bi-weekly increase will be implemented on November 6, and for the hourly personnel on November 8. Details concerning these changes will be found in a special announcement to be included in each pay envelope.

Additional information about these changes may be obtained from the MIT Benefits Office, E19-230, Ext. 3-4271

Radocchia In New Post

Robert J. Radocchia, manager of the Walker Memorial Dining Service for the past 35 years, will step down from that post November 1, to assume increased responsibilities for the MIT Quarter Century Club.

Announcement of the change was made by John E. Newcomb, Jr., personnel officer and executive director of the Quarter Century Club. He said Mr. Radocchia will continue to manage the Walker Memorial building and to be responsible for all on-campus vending services.

"Over the past five years, the Quarter Century Club has grown from approximately 40 members to some 850, and its activities have increased accordingly," Mr. Newcomb said. "Bob Radocchia was instrumental in bringing about the changes, which include extending membership in the Club to faculty members, establishment of the



Mr. Radocchia

charter trips and the recent merger of the Quarter Century and Silver Clubs.

"We are pleased that Mr. Radocchia has agreed to assume administrative responsibilities for the Club, and confident of continued growth and vitality." Mr. Newcomb said.

Blood Drive Opens Today

Starting today, members of the MIT community are asked to "GIVE a moment, save a LIFE" and participate in MIT's first eight day fall blood drive.

The drive, which runs through Nov. 8, is being held in the Sala de Puerto Rico in the Student Center. Drive hours will be 9:45am until 3:30pm on all weekdays except Thursday, Oct. 31 and Wednesday, Nov. 6, when the hours will be from 2:30 until 8:15pm.

To encourage donors, the organizers of the drive will give away a keg of beer to each of the two fraternities and two dorms which give the most blood in proportion to the number of residents in the living group. Those interested in participating in this contest should give the name of their residence when they register.

It is not too late to make appointments and all prospective (Continued on page 3)



Violinist Rose Mary Harbison

Photo by Calvin Campbell

Rose Mary Harbison to Solo At First Symphony Concert

Soloist with the MIT Symphony Orchestra in its opening concert of the 1974-75 music season will be Rose Mary Harbison, well-known Boston violinist and wife of MIT composer John Harbison. She will be heard in a performance of the Violin Concerto in D Major, Op. 77, by Brahms.

The concert, under the direction of conductor David Epstein, will be at 8:30pm Saturday, Nov. 2, in Kresge Auditorium.

In its initial concert the orchestra will present a special program, including the Brahms, commemorating the centennial of the birth of the composer Arnold Schoenberg. The program will open with Prelude and Fugue in E Flat Major by J.S. Bach in an arrangement for large orchestra by Schoenberg. The orchestra will also play Schoenberg's Theme and Variations, Opus 43. Both Schoenberg works have been selected to reveal the composer's concern with musical tradition and the harmonic conventions of tonal music. The Brahms is included in recognition of his extensive influence on Schoenberg's musical development.

Rose Mary Harbison studied violin with Albert Rahier, Raphael Bronstein and Joseph Silverstein and chamber music with Rudolf Kolisch. She has performed extensively as a leader of her own quartet and as soloist, and has recorded for Acoustic ResearchDeutsche Grammophon, Composer's Recordings, Inc., and Advent

Several composers have written works for Rose Mary Harbison and she has participated in first performances of many important chamber works. She has taught at Brandeis University and at the Longy School of Music.

New Pages Out for Guide

"GUIDE TO MIT'S AD-MINISTRATIVE OFFICES" formerly the "Secretarial Handbook" has 44 revised pages which will be distributed to department users on October 31st. The content of the book is the same but the new title more accurately describes the book's content and use.

Much in demand as an aid to knowing which department to call for which service, the GUIDE serves as a ready reference for those who want to be up-to-date on new procedures and those who are newly getting acquainted with them at MIT. Ask your administrative officer for the revised pages or call the Office of Personnel Development, x3-4277, which manages its distribution.

MIT Press Seeks New Director Fiscal Problems, Solutions Reviewed

A national search for a new director for the MIT Press was announced last week by Constantine B. Simonides, MIT vice president and senior administrative officer to whom the Press reports.

The new director will succeed Howard W. Webber who resigned in August after four years of service. Mr. Simonides said several candidates are already under consideration. A public announcement of the search will appear soon in the journal Publisher's Weekly.

Mr. Simonides said MIT will seek candidates with substantial and varied experience in management of major publishing enterprises.

In a recent report to the Press editorial and management boards, Mr. Simonides, who is in charge of Press operations until a new director is selected, said that a downturn in sales, together with a decision this summer to write off substantial losses accumulated by the Press over recent years, have resulted in a major review of Press operations, some reduction of staff

and adoption of tight budget controls.

"The basic challenges we face now," he said, "include general market problems—e.g., inflation and reduced acquisitions by libraries—and specific problems related to the Press' printing, pricing and credit policy. These problems are reflected in high inventories, large accounts receivable and a dramatic increase in the interest charges paid to MIT by the Press for working capital loans.

"We feel that, through tight management controls and prudent acquisition and marketing strategies, these problems can be overcome. Current measures to alleviate the critical situation include write-down of overvalued inventories, careful budgeting of expenses, and detailed reviews of marketing, editorial and fulfillment policies and practices.

"The changes are designed and implemented by a responsible and highly talented staff of professionals at the Press, assisted by experienced publishing consultants under the guidance of the editorial and management boards who are

supporting the Press with enthusiasm in this period of management transition.

Mr. Simonides said the aim of policy changes is to improve services to authors and customers, while maintaining the intellectual strength of the Press books and prize-winning standards of graphic design for which the Press is known throughout the world.

Criteria for a new director were reviewed at recent meetings of the MIT Press Editorial and Management Boards.

The editorial board, chaired by Professor Hartley Rogers, Jr., associate provost and professor of mathematics, is responsible for the Press imprint and guides the Press' acquisitions and publishing policies. Members include: Stanford O. Anderson, professor of architecture; Donald L.M. Blackmer, professor of political science and associate dean of the School of Humanities and Social Science; Peter Elias, Edwin S. Webster Professor of Electrical Engineering; Morris Halle, professor of modern languages; Daniel M. Hol-

(Continued on page 2)

APO Services Are Much in Demand

Nearly 100 telephoned and written requests for help have beckoned members of MIT's chapter of national service fraternity Alpha Phi Omega since October 17, when a feature article on the group appeared in the Living Pages of The Boston Globe.

At a meeting held last week in response to those requests, Service Vice-President Bill Anderson of Armonk, N.Y., announced plans for several new community projects

Alpha Phi Omega, a non-profit organization that has beenoperating since World War II, has about 30 active members at MIT, 35 percent of whom are women auxiliary members.

Projects that have won them national attention in the past include the production of a handicapped students' map of the campus, and two guides to architectural barriers in the vicinity of MIT: Wheeling Through Boston and Access to Cambridge.

Last weekend, MIT's Alpha Chi chapter of APO spent Saturday

Summer Session Deadline Nears

The deadline for formal proposals and budgets for the 1975 MIT Special Summer Session Program is November 7, according to James M. Austin, director.

Last summer, registration-perprogram for the one- and two-week sessions for professionals from outside the Institute was the highest since 1969.

Mrs. Mary D. Howe, assistant to the director of the program, should be called (3-2101) for further information.

and Sunday landscaping, painting and refurbishing Camp Split Rock in New Hampshire. Boy Scout camps frequently call upon them to move tent platforms or build new foundations as campsite locations are rotated with the wear and tear of summer visitors.

Seymour Danberg of North Haven, Conn., who has been receiving the recent phone calls for help, explained that the fraternity charter was designed to help organizations rather than individuals.

"We cannot accommodate private parties who want their houses painted or roofs shingled. Nor can we commit ourselves to a longrange ongoing project such as tutoring individual students. Our success comes from the fact that we work together and we work hard-that's our only stipulation."

Work projects scheduled for November include wall painting at the Boston Center for the Blind, Nov. 2, and general cleaning at the Cambridge YWCA, Nov. 9.

During MIT's Independent Activities Period (Jan. 6-29), the fraternity members will devote their time to reading technical books to a tape recorder for the National Braille Press. Some of the tapes will become part of a talking books series while others will be provided upon request to individual science students who want specific titles transcribed.

Borrowing further from their classroom experience, they will present a variety of fund-raising ideas to the Boston Ambulance Squad, which is seeking more brain than brawn.

In addition, The Children's Center of Brookline would like their front porch rebuilt and the Fernald School of Waltham needs four or five wheelchairs modified for handicapped students with special muscle problems.

A Boston group known as Families and Friends of Prisoners has requested a Saturday for some electrical re-wiring work. Meanwhile, the pile of books for distribution to Asian students and the Norfolk Prison Library grows higher and higher in the APO Office.

November 8-10 and 14-16 are reserved for ushering duties for the MIT Theatre Guild production of My Fair Lady, and November 18-22 will witness the annual recreation of an APO tradition: the Ugliest Man On Campus. Proceeds will go to a national charity such as CARE, which last year netted \$3,000 from the event.

"Then there were all those requests from area women's colleges for escorts," Danberg said. "Judging the attendance level at the last APO mixer, we just may have to give serious consideration to a project with a little less work built in."

David Baltimore Honored For Innovative Research

Dr. David Baltimore, American Cancer Society Professor of Microbiology at MIT, was one of seven scientists named recipients of the 17th Annual Gairdner Foundation Awards Friday, Oct. 25, at the National Club in Toronto, Canada.

He shared the \$10,000 award for "innovative and significant research" on the mechanism of action of viruses in relation to tumor production with Dr. Howard M. Temin of the University of Wisconsin in Madison.

The 36-year-old Dr. Baltimore, who was awarded the National Academy of Science's United States Steel Foundation Award in Molecular Biology last spring, has been recognized as a leader in virus research for his discoveries on the reproduction and enzymology of RNA viruses.

His discovery of reverse tran-

scriptase-in which an enzyme catalyzes RNA-directed synthesis of DNA in purified preparations of RNA tumor viruses-was also carried out in cooperation with Dr.

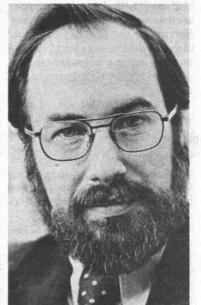
The 1970 discovery, a powerful tool for studying the relation between viruses and cancer, has earned Dr. Baltimore career support in the amount of \$1,159,000 toward his study of the growth of viruses which either cause cancer or provide models for understanding cancer-causing viruses.

A native of New York City, Dr. Baltimore received the B.A. degree from Swarthmore College in 1960 and the PhD degree from Rockefeller University in 1964. He has been a post-doctoral fellow at MIT, where he also took graduate courses from 1960-61, a postdoctoral fellow at the Albert Einstein College of Medicine, Bronx, N.Y. and a research associate at the Salk Institute for Biological Studies, LaJolla, Calif.

In 1970 he became the first recipient of the Gustav Stern Award in Virology and was the 1971 winner of both the Warren Triennial Prize from Massachusetts General Hospital and the Eli Lilly and Co. Award in Microbiology and Immunoloy.

Appointed associate professor of microbiology at MIT in 1968 and professor of biology in 1972, Dr. Baltimore is currently serving on the Cancer Special Program Advisory Committee of the National Institutes of Health.

Also receiving Gairdner Foundation Awards at ceremonies Friday were Dr. Judah H. Quastel



Dr. Baltimore

of the University of British Columbia, Vancouver; Dr. Hans J. Muller-Eberhard of the Scripps Clinic and Research Foundation, LaJolla, Calif.; Dr. Hector F. DeLuca of the University of Wisconsin, Madison; Dr. Roger Guillemin of the Salk Institute in San Diego and Dr. Andrew V. Schally of Tulane University.

The awards, first conferred in 1959, were established to reward individuals who have made contributions in the conquest of disease and the relief of human suffering. Funds for the awards derive from the personal gift of James Arthur Gairdner, LL.D. (Hon.), Toronto industrialist and financier who died in 1971.

MIT Press Problems, Solutions Are Reviewed

(Continued from page 1) land, professor of management; Elting E. Morison, Elizabeth and James R. Killian Professor of the Class of 1926; Walter S. Owen, professor and head of the Department of Metallurgy and Materials Science; and John Ross, Frederick G. Keyes Professor of Chem-

The management board, chaired by Mr. Simonides, serves as a general board of directors of the Press. It includes: the chairman of the editorial board and the director of the Press, ex officio; Paul V. Cusick, vice president for fiscal relations; Michael L. Dertouzos, professor of electrical engineering and director of Project MAC; John M. Deutch, professor of chemistry; and John F. Rockart, senior lecturer in the Sloan School of Management; and three outside publishers-Richard B. Gladstone, senior vice president and director of the Educational Division, Houghton Mifflin Co., Boston; Jack Schulman, director, Cambridge University Press, New York City; and W. Bradford Wiley, chairman of the board, John Wiley & Sons, Inc., New York City.

A subcommittee of the two boards was appointed by President Jerome B. Wiesner to advise on the selection of the new director. It consists of Professors Rogers, Anderson and Dertouzos and Messrs. Schulman and Wiley.

Professor Rogers said the purpose of the editorial board is "to encourage and seek the publishing of scholarly works of the highest quality, with particular emphasis on areas that reflect the greatest strengths of MIT.'

"We are regarded as one of the top publishers in architecture and planning and linguistics," he said, 'and we intend to stay at the top in these areas while pressing hard to achieve greater distinction in our acquisitions in the physical and biological sciences and in engineering."

Professor Rogers added that although university publishers are not strong in basic texts, it would be appropriate for the MIT Press to publish advanced texts and supplemental readings in MIT's major fields.

The Press was founded in 1932 by James R. Killian, Jr. In 1937, the manufacture, marketing and distribution of its books (under the imprint of "The Technology

Press") was contracted to John Wiley & Sons. In 1963, the Press undertook to provide the full range of publishing services to the scholarly community under its present imprint.

This was recommended by a 1960 Study Committee chaired by Datus C. Smith, Jr., then director of the Princeton University Press. The committee concluded that "...MIT would be incomplete, and in our view would be neglectful of its duty as one of the leading intellectual institutions of the world, if it failed to make adequate provision for scholarly publishing as an integral and indispensable part of its responsibility." Mr. Simonides said the MIT administration finds this as applicable now as it was 15 years ago.

In recent years, about a third of Press authors have been MIT Faculty. Most non-MIT authors are from other universities, primarily US.

Mr. Simonides stressed the importance of maintaining the Press' intellectual quality and its independence of judgment as a publishing entity. Members of the Institute Faculty, he said, are especially welcome to visit the Press and talk with acquisitions editors about their own work and about other publishing projects they think the Press should explore.

Since 1970, the home of the Press has been a three-story building at 28 Carleton St. on the east campus.

Littlewood Promoted In Graduate School

Yvonne Littlewood has been named administrative assistant in the Graduate School office with special responsibility for graduate fellowship programs.

Previously Ms. Littlewood worked closely with Ronald S. Stone, executive officer and assistant dean of the Graduate School. Mr. Stone resigned recently to become associate director of the Alumni Fund.

Ms. Littlewood will be responsible for counseling graduate students regarding financial aid available and how to apply for it. She will act as a liaison person between the Graduate School, the sponsors, and the graduate departments of MIT with respect to policies and procedures concerning federal fellowship programs.

TECH TALK Volume 19, Number 18 October 30, 1974

Tech Talk is published 50 times a year by the News Office, Massachusetts Institute of Technology, Director: Robert M. Byers; Assistant Directors: Charles H. Ball, Robert C. Di Iorio, Patricia M. Maroni, Joanne Miller, William T. Struble, and Calvin D. Campbell, photojournalist; Reporters: Sally M. Hamilton, Ellen N. Hoffman; Institute Calendar/Want Ads: Susan E. Walker.

Address news and editorial comment to MIT News Office, Room 5-111, Massachusetts Institute of Technology, Cambridge, MA 02139. Telephone ext. 3-2701.

Mail subscriptions are \$6 per year. Checks should be made payable to MIT and mailed to the Business Manager. Room 5-111, MIT, Cambridge, MA 02139.

New UROP Listings

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

Boston University

Medical Center Boston, Mass. A bioengineering facility at BUMC is

conducting infant physiological monitoring for research into the causes of sudden infant death and the development of the central nervous system in the newborn. A student is invited to participate in developing safe, non-invasive instrumentation for reliably monitoring physiological parameters. Other projects are in the areas of utilizing passive sound for detection of pulmonary tract pathology, and the development of instrumentation and processing techniques to apply to the diagnosis of hearing abnormalities. Student should have skills in instrumentation, mechanics, digital hardware and pro-

Department of Nutrition and Food Science

An opportunity is available for undergraduates to study the hormonal regulation of normal and neoplastic cell metabolism. The model systems are human and animal thyroid cells in culture; the regulation of function and division of the cells by thyroid stimulating hormone will be investigated. Credit Only. Dr. Deanna Talley or Dr. John Stanbury,

Rm E18-566, x3-6737, x3-6738.

Score

Student Competitions on Relevant Engineering Inc. (SCORE) is sponsoring a competition on energy resource alternatives. The competition is directed towards the design and construction of energy packages to meet the needs of homes, farms, and light industry. The emphasis will be on utilizing non conventional energy sources such as synthetic fuels, wind, and solar energy. UROP projects are possible if students can find interested faculty support for their research. SCORE office, Rm E40-109.

Civil Engineering Department Computer-Aided Building Design by Dynamic **Programming Project**

The goal of this project is to develop a computer manipulatable model for building design which will account for multi-objectives and for the sequential nature of the decision-making process. Interactive computing will be used to set up a problem utilizing a user/system interface based on decision paths. Fortran programming experience essential and knowledge of optimization techniques desirable.

Dr. John Gero, Rm. 1-225, x3-7107 or leave message at x3-7109.

AVCO Everett

Everett, Mass. Research Laboratory There is an opportunity for students to work on projects relating to biophysics and physical chemistry at AVCO. One project involves investigating the uptake of cholesterol and lipids (fats) by large surface area sorbents. An interest in biophysics, physical chemistry or surface physics is desirable. Other projects, relating to physical measurements on the interaction of proteins with foreign surfaces are also possible

Graduate Studies

The following brief descriptions of selected graduate fellowships have been received recently by the Graduate School available in the Office, Room 3-136.

Resources for the Future

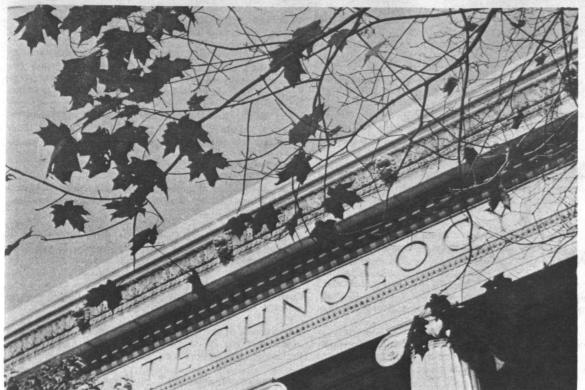
The Annual Doctoral Dissertation Fellowships in Natural Resources provide a stipend of \$4,500, plus a dependency allowance if applicable, to enable selected graduate students to devote full time for one academic year to dissertation research. Candidates must be nominated by their department, must have completed all doctoral requirements except the dissertation before the start of the 1975-76 academic year, and their research must relate to natural resources, their products, or their services and must involve the social sciences or related fields of study. Deadline: February 1, 1975.

Grace Legendre Fellowships

Fellowships of \$1,000 are available for the 1975-76 academic year for women who are residents of New York State and US citizens. Candidates must have a Bachelor's Degree and must show need for financial assistance. For applications write to: Dr. Margaret M. Bergen, 923 Delamont Avenue, Schenectady, New York, 12307

Deadline: March 1, 1975.

Page 2, Tech Talk, October 30, 1974



Numbered leaves on tree in Killian Court silhouetted against Maclaurin Buildings record approach of year's end.

Photo by Calvin Campbell

Study Probes Attitudes of Oil, Auto Foremen

A study of the attitudes of foremen in the domestic petroleum and automotive industries, reported in the current issue of MIT's Sloan Management Review, recommends that those industries "bring the foreman into the decision-making process where appropriate."

The foreman, the study concluded, has "firsthand knowledge about his area and crew and therefore has important contributions to offer."

However, the study found, the foreman "feels he has no input into decisions made affecting his area."

Six major oil companies and two major automotive companies took part in the survey. Altogether 338 oil company foremen (represent-

Rose, Ford Debate Nuclear Power

Dr. David J. Rose, MIT professor of nuclear engineering, and Daniel F. Ford, executive director of the Union of Concerned Scientists, are scheduled to debate nuclear power today (Wednesday) before an audience of high school students from the Northfield, Mass., area. The debate is being held at the Northfield Mount Hermon School in Northfield.

Dr. Rose is a proponent of nuclear power plant operations. The Union of Concerned Scientists opposes them on the grounds that they are dangerous.

Blood Drive Opens Today

(Continued from page 1) donors are urged to make appointments now to prevent long waits. Appointment forms will be available in the lobby of building 10 through Nov. 8. Forms and information can also be obtained from the Blood Drive Office, x3-7911 or from the Technology Community Association Office (W20-450), x3-4885.

Members of the MIT community who are 17 years old and wish to be donors must have parental permission. The TCA office has parental permission forms, but any parental letter which specifies permission to give blood Oct. 30 to Nov. 8, 1974 will be accepted. The dates of the drive must appear on the letter.

Every donor will receive refreshments and an \$.85 discount coupon for a Gershman cheese pizza. There will also be continual music, with the Logarhythms appearing at various times throughout the week. ing about 12 percent of the entire operating foreman population in the domestic oil refining industry) and 190 automotive company foremen (representing less than one percent of the entire production foreman population in the domestic auto industry) completed questionnaires.

The study was conducted by Kenneth J. Barker, staff consultant in Chrysler Corp.'s general manufacturing division; Patrick E. Coggins, manager in Sun Oil Co.'s employee and plant services division; Roman J. Krygier Jr., assistant to the operations manager at Ford Motor Co.'s metal stamping division, and Dwaine H. Smith, manager of project engineering for Atlantic Richfield Co.

They are also the authors of the article and all of them are alumni of MIT's Sloan School of Management.

The study sought to determine the attitudes of foremen in the following areas:

Security, compensation, communication, training, advancement, selection procedure, work load, authority, attitudes of superiors and subordinates, motivation and dissatisfied groups.

In summary, the study found:

—Petroleum foremen tend to be older and automobile foremen tend to have been on the job longer.

-More petroleum foremen previously held elected positions in

their unions.

—In both industries, foremen who were former union officers were more satisfied and more positive about their jobs.

—Communication was the primary source of dissatisfaction for foremen in both industries. Foremen in both industries felt their input into management decisions was less than what they thought it should be.

—Foremen generally were satisfied with their relationships with immediate supervisors and management.

-Petroleum foremen felt their overtime compensation was inadequate. Automobile foremen felt that merit raises were not made on a timely basis.

Besides bringing the foreman into the decision-making apparatus, Mr. Barker, Mr. Coggins, Mr. Krygier and Mr. Smith also made these recommendations:

—Improve the prestige and status of the foreman's position where needed. "The foreman should be made the focal point of operating decisions. He sees job importance as a strong motivating factor. Any policies or actions which promote this aspect of his job will improve his job attitude and in turn his performance."

—Make sure foremen are clearly informed about company policies on merit raises, overtime pay and promotions.

Sloan Fellows, Executives Attend 1974 Convocation

More than 500 persons attended the three-day 1974 Sloan Convocation of Sloan Fellows and MIT Senior Executives alumni which ended Tuesday, Oct. 29.

The convocation was opened officially Monday morning by Dr. William F. Pounds, Dean of the Sloan School. Howard W. Johnson, Chairman of the MIT Corporation, extended a welcome on behalf of the Institute.

Dr. Peter P. Gil, Associate Dean for Teaching Programs at the Sloan School, presided and introduced the members of a panel that discussed the current action being taken to cope with the management of social and technological change.

The panel chairman was Dr. Elting E. Morison, Elizabeth and James R. Killian Professor of the Class of 1926 in the School of Humanities and Social Science.

Panel members were:

Gerhard D. Bleicken, Chairman of the Board, John Hancock Mutual Life Insurance Company, Senior Executive Fall '58.

Oliver C. Boileau, Jr., President, Boeing Aerospace Co., the Boeing Co., Sloan Fellow '64.

Donald E. Procknow, President, Western Electric Co., Senior Executive Fall '63.

Wylie S. Robson, Executive Vice President and General Manager, International Photographic Division, Eastman Kodak Co., Sloan Fellow '56.

Herman R. Staudt, Undersecretary of the Army, Sloan Fellow '68.

Jack Wexler, Senior Vice President Exxon International Co.

Jack Wexler, Senior Vice President, Exxon International Co., Senior Executive Fall '71.

The afternoon session Monday—devoted to follow-up discussions—concluded with a panel chaired by Professor Walter A. Rosenblith, MIT Provost, at which discussion group leaders summarized points covered by their particular group.

Discussion groups were headed by Dr. Gordon F. Bloom, Sloan School senior lecturer; Dr. Henry D. Jacoby, professor of management; Dr. Charles P. Kindleberger, Ford Professor of Economics; Dr. Morison; Dr. Charles Myers,

Registration for Second Quarter Physical Education classes will be held in the lobby of duPont on Thursday, October 31 from 10am-1pm and 2-3pm and on Friday, November 1 from 1-3pm.

Sloan Fellows professor of management and Director of the Industrial Relations Section; Dr. Edward B. Roberts, David Sarnoff Professor of Management, and Professor Rosenblith.

A special program for spouses was presented Tuesday at the Copley Plaza Hotel. It consisted of a panel discussion on "Women in a Changing Society." Panel members were Edith Ruina, director of the MIT Workshop on Women in Science and Technology; Anita Gil, project director, Education Development Center, Cambridge; Carolyn S.P. Nanfeldt, Sloan Fellow 1974-75, formerly financial analyst for General Motors Corp.'s treasurer's office; Mary Potter Rowe, special assistant to the MIT president and to the MIT chancellor for women and work, and Dr. Phyllis A. Wallace, visiting professor of management at MIT.

A series of seminars, offered by more than 30 members of the Sloan School faculty, concluded the convocation.

A limited number of copies of the large report of the President and the Chancellor for the years 1971-72 and 1972-73 are available in the Information Center, Bldg. 7-111.

IRS Changes Annuity Codes

Since announcing the availability of a Tax Deferred Annuity Program effective January 1, 1974 there have been changes in the Internal Revenue Code regulating this program, according to Allan J. Urquhart, MIT benefits officer.

These changes are stated in the Employee Retirement Income Security Act of 1974 (the new pension reform legislation), and impact on the Exclusion Allowance calculation (the calculations that are used to determine the maximum amount an employee can put into a Tax Deferred Annuity Program). While the full implications of all provisions of the law in this area have not yet been determined, it seems clear that for many members of the Faculty and Staff, the maximum exclusion allowance will be significantly reduced beginning on January 1, 1976. With this information in mind you should carefully consider your exclusion allowances for the calendar year 1975.

A Tax Deferred Annuity Program enables individuals to set up a plan under which select amounts in lieu of salary will be invested in accounts in their names. These accounts will be exempt from federal taxes on both principal and interest, until withdrawn or received in the form of annuity payments.

Representatives of the Prudential Insurance Company will conduct group meetings on campus and at Lincoln Laboratory to provide information about and illustrate the impact of the new legislation.

Campus meetings will be held on Tuesday, November 5, in Bldg. 1-136 from 10:00-11:00am, 12:00-1:00pm and 3:00-4:00pm.

Three meetings at Lincoln Laboratory will likewise be held on Wednesday, November 6 in Room A166 commencing at 10:00am, 12:00 noon, and 3:00pm.

All faculty and staff members are welcome to attend these meetings, whether now participating or intending to participate with TIAA-CREF.

Variety of Musical Events Upcoming

Pianist Jesus Maria Sanroma, a well-known recitalist in the US and in Europe, will perform at MIT, 3pm, Sunday, Nov. 3 in Kresge Auditorium.

A close friend of the late Pablo Casals, Dr. Sanroma performed frequently with Casals and was one of the founders of the Casals festival held annually in Puerto Rico.

As a memoriam to the late cellist, Dr. Sanroma will open the concert with a performance of Casals' Prelude in C Major.

The rest of the program will be devoted to works by Schumann—the E minor Sonata, Opus 22, Scenes from Childhood, Opus 15 and Kreisleriana, Opus 16.

A graduate of the New England Conservatory of Music in 1920, he studied piano under Alfred Cortot and Arthur Schnabel. He made his recital debut in Boston in 1924 and was a frequent soloist with the Boston Symphony under Serge Koussevitsky.

In addition to numerous concert tours, Dr. Sanroma teaches piano at the University of Puerto Rico's Conservatory of Music. The concert, sponsored by the MIT Music Section, is open to the public free of charge.

An inter-collegiate sing featuring the MIT Logarythms, the MIT Keytones, Tufts University's Beelzebubs and the Jackson Jills from Jackson College will be held Sunday, Nov. 3 at 7:30pm at MIT's Kresge Little Theater.

This concert will be the debut for the Keystones, MIT's newly formed women's close harmony singing group.

The groups will perform popular ballads and traditional barbershop tunes. The concert is free and open to the public.

The Chamber Music Society will present a concert featuring Gruan's Trio Sonata, Bizet's Music for Flutes and Harp and Schubert's Fantasy for Piano Four Hands, 5:15pm, today, Wednesday, Oct. 30 in the Music Library.

A musical event, "Devils and Bells," a double bill celebration of Guy Fawkes' Day and Halloween, will take place noon, Tuesday, Nov. 5 in the Building 7 Lobby.

The premiere of composer Paul Earls new composition based on Giuseppe Tartini's 17th century work *The Devil's Trill* will be featured in the first part of the program.

Violinist Stephen Erdely will perform the work which in its new version incorporates taped music. Dr. Erdely is associate professor of music and former violinist with the Cleveland Symphony under the late George Szell.

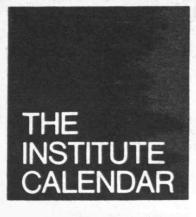
Composer Earls is a fellow at the Center for Advanced Visual Study.

Pealing bells and a performance by the change ringers from the Boston Church of the Advent will mark the English holiday, Guy Fawkes' Day.

The change ringers, under the direction of Geoffrey Davies, will play handbells. Change ringing is a method whereby each bell weaves its note, not into a tune but into a mathematical sequence of "changes."

The lobby program is directed by Paul Earls and sponsored by the Lobby 7 committee.

Tech Talk, October 30, 1974, Page 3



October 30 through November 8

Events of Special Interest

Blood Drive – Annual Fall Blood Drive. Please make appointments. Forms available in Bldg 10 Lobby, TCA office, dorms, fraternities and Institute mail. Weekdays, Wed, Oct 30-Fri, Nov 8, 9:45am-3:30pm, except for Thurs, Oct 31 & Wed, Nov 6, which will be 2:30-8:15pm. Info, x3-7922 or x3-4885.

Follow-Up Program for 5-Day Stop Smoking Clinic – Rev. Walter Kloss, N.E. Memorial Hospital, will lead a discussion for participants in last week's program. Fri, Nov 1, 12-1:30pm, Rm 10-250.

An Encounter with Elie Wiesel* – An address by the well-known author and journalist. Sponsored by Hillel, the Chaplaincy and Technology and Culture Seminar. Tues, Nov 5, 7pm, Rm 26-100.

Seminars and Lectures

Wednesday, November 30

Hydrothermal Flow Near a Ridge Axis – John G. Sclater, earth & planetary sciences. Oceanography Sack Lunch Seminar. 12n, Rm 54-311. Coffee, bring lunch.

Current Politics in the Arab East* - Ghassan Tueni, publisher, An-Nahar, former minister in the Lebanese government. CIS Seminar. 12:30pm, Rm E53-482.

Neutron Scattering and Kinetic Equations* - T.A. Postol, G. Nuclear Engineering Doctoral Seminar. 1pm, Rm 24-121.

Multilayer Films of Polymers* - Dr. Turner Alfrey, visiting professor, metallurgy & materials science. Course 10.698 Polymer Seminar. 2pm, Rm 12-108.

Reflector Treatment by Albedo-Type Conditions at Core-Reflector Interfaces in Group-Diffusion Models* - Panos Kalambokas, G. Nuclear Engineering Doctoral Seminar. 3pm, Rm NW12-222.

Core Design for a Small HTGR* - A. Ribeiro, G. Nuclear Engineering Doctoral Seminar. 4pm, Rm NW12-222.

Soviet Perspective on Arms Control* – Marshall Shulman, Russian Institute of Columbia University, New York. MIT-Harvard Joint Arms Control Seminar. 4pm, Harvard Center for International Affairs, seminar rm 1, 6 Divinity Ave.

How to Apply to Graduate Schools* – J.D. Litster & George Koster, physics. Physics Undergraduate Colloquium. 4:15pm, Rm 6-120. Social hour follows. Rm 6-209.

Thursday, October 31

Irreversible Thermodynamics of Electro-Osmosis and Streaming Potential* – J. Th. G. Overbeek, visiting professor, chemical engineering. Chemical Engineering Seminar. 10am, Rm 12-150.

Careers for Women in Engineering – Ronna Toba, engineer, Xerox Corp. Graduate School Discussion group 3pm, Rm 3-136. Individual conferences may be arranged by signing sheet posted outside Rm 3-136.

Uncle Sam's Role in International Air Transport: Does it Spell Help or Trouble for US Flag Lines* – Frank Loy, former senior vice president for international affairs, Pan Am Airlines. Aero/Astro Flight Transportation Seminar (course 16.52) 3:30pm, Rm 33-319.

Structure of Thermal and Caloric State Functions* – Henry M. Paynter, mechanical engineering. Thermodynamics and Fluid Mechanics Seminar. 4pm, Rm 3-343. Coffee.

Stall Flutter and Nonlinear Divergence of a Two-Dimensional Flat Plate Wing* – John Dugundji, aero/astro. Interdepartmental Acoustics Seminar. 4pm, Rm 5-234. Refreshments 3:30pm, Rm 1-1154.

Some Case Studies in Industrial Research Problems* – Linwood Walters, Rogers Corporation. Polymer Processing Seminar. 4pm, Rm 37-186. Refreshments 3:45pm.

Sagnac's Experiment and Other Recreations in General Relativity – Valentine Telegdi, University of Chicago. Physics Colloquium. 4:15pm, Rm 26-100. Refreshments 3:45pm, Rm 26-110.

The Silver Lining of Athenian Imperialism* – Arthur Steinberg, humanities. Humanities Crossroads Lecture. 4:30pm, Rm 14E-304.

Some Highlights of an Aerospace Career* - Abe Silverstein, director of environmental planning, Republic Steel Corp. 15th Lester D. Gardner Lecture, Aero/Astro. 5pm, Rm 9-150.

Friday, November 1

Designing Robots for the Real World* - J. F. Engelberger, president, Unimation Inc. Mechanical Engineering Seminar. 3pm, Rm 3-133. Coffee 4pm, Rm 1-114.

Underwater Study with Strobe Photography, Using the Elasped-Time Techniques* — Harold E. Edgerton, Institute Professor Emeritus; K.R.H. Read, Boston University. Movie and slides. Ultrasonic Study of Decompression Sickness* — Dr. R. Stuart MacKay, Boston University. Short movie. Special Course 6.163 Lecture. 12n, Rm 4-402.

The Future of Mass Transit* – Louis J. Gambaccini, Sr., vice president, Port Authority Trans-Hudson Corp. Center for Transportation Studies Seminar. 12:45pm, Stu Ctr Mezzanine Lge. Buffet lunch 12n, price \$1.

Orientation of Glassy Amorphous Polymers* – J. P. Ibar, G. Chemical Engineering Doctoral Seminar. 2pm, Rm 10-105.

Careers for Women in Engineering – Ronna Toba, engineer. Xerox Corp. Graduate School Discussion group 3pm, Rm 3-136. Individual conferences may be arranged by signing sheet posted outside Rm 3-136.

Computer Image Processing in Nuclear Medicine* - Gordon L. Brownell, nuclear engineering. Nuclear Engineering Biomedical Applications of Radiation Seminar. 3:45pm, Rm NW12-222. Coffee 3:30pm.

New England Coastal Frontogenesis* – Lance Bosart, atmospheric sciences, State University of New York at Albany. Meteorology Seminar. 4pm, Rm 54-100. Tea, 3-3:30pm.

The Argon-Potassium Complex at Very Low Densities: A Molecular Beam Study of the Van der Waals Molecule KAr* – Richard Freeman, physics. Materials Science Seminar. 4pm, Rm 9-150.Tea 3:30pm.

Weather Modification as Weapon* - Gordon McDonald, Dartmouth chairman, Commission on Natural Resources, NAS. CIS New Technologies & International Security Seminar. 4pm, Rm E53-482.

Monday, November 4

Research on a Fluidized Bed Coal Combustion System for an Advanced Clean Power Combined Cycle* – Dr. Ronald Hoke. research associate, EXXON Research & Engineering Company. Chemical Engineering ILO Seminar. 9:15am, Rm 12-150.

Closed-Loop Computer Control of Large Nuclear Reactors* - Kris L. Gimmy, Savannah River Plant. Nuclear Engineering ANS Seminar. 3:30pm, Rm NW 12-222. Coffee, 3pm.

Elementary Particles and Regge Poles – Hung Cheng, mathematics. Applied Mathematics Colloquium. 4pm, Rm 2-338. Coffee 3:30pm, Rm 2-349.

Algebraic Approaches to Non-Deterministic Systems* – Michael Arbib, computer & information sciences, University of Mass, Amherst. Electrical Engineering Decision & Control Sciences Group Seminar. 4pm, Rm 39-400.

Membrane-Active Antibiotics and Membrane Proteins* – H. Eugene Stanley, Hermann von Helmholtz Associate Professor of Health Sciences and Technology, physics; George D. J. Phillies, DSR research staff, and Kenneth J. Rothschild, NIH Postdoctoral Fellow, both Harvard-MIT Program in Health Sciences and Technology program. HST Biomaterials Seminar. 4:30pm, Rm 37-212. Coffee 4pm.

China Revisited* - Francis Lee, electrical engineering. RLE & Electrical Engineering Joint Colloquium. 7:30pm, Rm 10-250.

Tuesday, November 5

Interaction of a Relativistic Electron Beam with a Neutral Gas in High Magnetic Fields* – Jeffry Golden, G. Aero/Astro Doctoral Seminar. 9:30am, Rm 33-206.

Further Applications of Irreversible Thermodynamics to Electro-Kinetic Phenomena* – J. Th. G. Overbeek, visiting professor, chemical engineering. Chemical Engineering Seminar. 10am, Rm 12-150.

Theta Pinch First Wall Failure and the Use of the Principles of Model Simulation for Determining Upper and Lower Bounds on Wall Lifetime* – A. Pant, G. Nuclear Engineering Doctoral Seminar. 12n, Rm 38-166.

Air Traffic Control Processes* – Robert Simpson, aero/astro. Aero/Astro General Seminar. 4pm, Rm 35-255. Coffee 3:30pm, Rm 33-411.

Thermodynamics and Kinetics of Void Formation** – Kenneth C. Russell, metallurgy & materials science. Materials Colloquium. 4pm, Rm 6-120. Coffee 3:30pm.

Is the Mantle Chemically Homogeneous?* – Thomas J. Shankland, geological sciences, Harvard University. Earth & Planetary Sciences Colloquium. 4pm, Rm 54-100. Tea 3:30pm, Rm 54-923.

Black Interests in Africa* – Willard Johnson, political science. Community Fellows Program Seminar. 5pm, Rm E40-200.

Mariculture in Estuarine and Coastal Regions* – John H. Ryther, Woods Hole Oceanographic Institution. Sea Grant Lecture, Lowell Institute, & New England Aquarium Lecture. 8pm, Aquarium, Atlantic Ave, Boston.

Off-Shore Drilling as a Step in Energy Self-Reliance* – Robert Haslan, EXXON. Society of Automotive Engineers, MIT Section Seminar. 6pm cocktails, 7pm dinner, 8pm lecture, Faculty Club. Admission \$6. students \$2.

Wednesday, November 6

Generation of Baroclinic Tides in the Ocean: Site D Revisited – Ross Hendry, MIT-Woods Hole Oceanographic Institute Joint Program. Oceanography Sack Lunch Seminar. 12n, Rm 54-311. Coffee, bring lunch.

Molecular Dynamics of Hydrogen-Bonded Systems* – C.V. Berney, nuclear engineering. Nuclear Engineering Seminar. 1pm, Rm 24-121.

Morphology of Block Copolymers* – Dr. Dale Meier, Midland Macro-molecular Institute. Course 10.698 Polymer Seminar. 2pm, Rm 12-108.

Finite Difference Equations for a 3-D Synthesis Code* - Ronald J. Chin, G. Analysis of the Xenon Oscillation Problem Using Synthesis* - A. Baroso, G. Nuclear Engineering Doctoral Seminar. 3pm, Rm NW12-222.

When Does Molecular Biology Become More of a Hazard than a Promise?* - David Baltimore, American Cancer Society Professor of Microbiology. Technology Studies Workshop Seminar. 4pm, Rm 10-105.

An Accident Probability Analysis and Design Evaluation of the Gas Cooled Fast Breeder Demonstration Plant* – P. DeLaquil III, G. Nuclear Engineering Doctoral Seminar. 4pm, NW12-222.

An Overview of the Law and the Profession* - Arthur Z. Gray, president, Union Pacific Fdn; former partner, Clark, Carr & Ellis. Forum on the Legal Profession. 4pm, Stu Ctr Mezzanine Lge.

Where Are the Good Opportunities in Physics Employment?* – Lee Grodzins, physics. Physics Undergraduate Colloquium. 4:15pm, Rm 6-120. Social hour follows, Rm 6-209.

Thursday, November 7

Single Anchor Leg Mooring for Offshore Loading of Tankers* – John F. Flory, EXXON Research. Ocean Engineering Seminar. 1pm, Rm 5-217.

Design, Development and Construction of the F-15 Air Superiority Fighter* – Representatives of the Aeronautical Systems Division, Wright-Patterson AFB. ROTC Program Seminar. 3pm, Stu Ctr Rm 491.

Open Reading* - Students, faculty and staff will read original works. 3:30-6pm, Rm 14E-304.

An Overview of the Law and the Profession* – Arthur Z. Gray, president, Union Pacific Fdn; former partner, Clark, Carr & Ellis. Forum on the Legal Profession. 4pm, Stu Ctr Mezzanine Lge.

Measurement of Spasticity* - Howard A. Bomze, director, rehabilitation engineering unit, Irene Walter Johnson Institute of Rehabilitation, Washington University. Harvard-MIT Rehabilitation Engineering Center Seminar. 4pm, Rm 10-105.

Regulating the Poor in the 1970's – Frances Fox Piven, political science, Boston University. Respondent to be announced. Technology & Culture Seminar: Merit and Equality in a Just Society. 4pm, Rm 9-150.

A Pulsatile Flow Stimulator for Studying Arterial Blood Flow* – W.H. Pitts, G. Mechanical Engineering Thermodynamics & Fluid Mechanics Seminar. 4pm, Rm 3-343. Coffee.

Gravitational Wave Experiments and Quantum Non-Demolition Measurements – V. B. Braginsky, physics, Moscow State University. Physics Colloquium. 4:15pm, Rm 26-100. Coffee 3:45pm, Rm 26-110.

The Parthenon: Temple of Athena* – Pamela Berger, Boston College. Humanities Crossroads Lecture. 4:30pm, Rm 14E-304.

Photography* - Garry Winogrend, well-known photographer. Creative Photography Laboratory. 7:30pm, Rm 9-150.

Friday, November 8

Some Two Phase Characteristics of Monolithic Catalyst Supports* - F. Ozel, G. Chemical Engineering Doctoral Seminar. 2pm, Rm 10-105.

Effects of Texturing on the Dyeability of Synthetic Fibres* - S. Rose, G. Chemical Engineering Doctoral Seminar. 3pm, Rm 10-105.

The Unfulfilled Mechanical Potential of Polymeric Solids* – John C. Halpin, technical advisor for Nonmetallic Structures Materials Laboratory, Wright Patterson Air Force Base. 3pm, Rm 3-133. Coffee 4pm, Rm 1-114.

Community Meetings

Wives Discussion Group – Wed, 2:15pm, Medical Dept conference rm, 3rd fl. Discussion leaders: Myra Rodrigues, social worker, x3-1684; Charlotte Schwartz, sociologist, x3-2916. Babysitting services available.

Modern Mixology Course* - Sponsored by Lambda Chi Alpha fraternity. Wed, Oct 30 & Thurs, Oct 31, 7:30pm. Those who complete the course will receive a certificate and a mixology manual. Fee: \$15. Info, Gary Speer, 266-4796.

Basic Pistol Marksmanship Course – Starts Thurs, Oct 31, 6:30pm. for 5 consecutive Thurs. Open to first 20 adult members who apply. Fee: \$15, covers equipment. Info & registration, Tom McLennan, x3-3296 or Andy Platais, x8-1417 Draper.

Preprofessional Meetings – Fri, Nov 1 – Boston University School of Law: Professor Tomar Frankel, group meeting 12n, Rm 4-145. Make appointments for all interviews at Preprofessional Advising & Education office, Rm 10-186, x3-4158.

MIT Club of Boston – Exploring Boston: Tour of EG & G Volle Environmental Equipment Division. Sat, Nov 2, 10am, Bear Hill Rd. form Waltham. Reservations recommended: Pete Van Aken, 647-2280.

Student Committee on Discipline and Student Rights – Meeting on justice at MIT. Sun, Nov 3, 4pm, Rm 8-105. Info: Richard Buck. x9403 Dorm; Robert Sacks, x3-2897 or 494-8889; Steve Simmons x8265 Dorm.

AIAA** - Weekly meetings of the American Institute of Aeronautics and Astronautics. Wed, 3pm, Rm 33-222.

Physics Department Social Hour** - For undergraduate physics Zero students and faculty. Wed, 5pm, (following Undergraduate Physics 7:30) Colloquium), Rm 6-209.

Women's Forum** – Meetings Mon, 12n-1pm, Rm 10-105, Will meet Tues following Mon holidays. Mon, Nov 4: Libby Cohenstudent, will lead a discussion on coeducational living.

Introduction to the Use of Multics** – IPC course. Nov 4, 6, 11 & 13; lecture 10am-12n, terminal sessions 2-4pm; Rm 39-530. Fee: \$10. Previous knowledge of a compiler level language will be assumed. Register: Lynne Penney, Rm 39-427, x3-6320.

Introduction to OS/TSO** – IPC course. Nov 5, 7, 12, 14, 19 & 21 10am-12n Rm 39-530. Fee: \$5, pre-registration required. Register: Lynne Penney, Rm 39-427, x3-6320. Previous computer experience and knowledge of a compiler language assumed.

A Family Affair – An informal party for all minority students, staff and faculty to meet Clevonne Turner, recently appointed acting assistant dean for student affairs. Fri, Nov 8, 6-9pm, Stu Ctr Wesl Lge.

Page 4, Tech Talk, October 30, 1974

MIT Club Notes and Meetings

FS International Scholarships* - Meeting to plan involvement in mericans Abroad Regional Screening (Nov 2-3, 9-10) and the day activity at Harvard Sat, Nov 2. This event starts at Quincy Harvard, 9:15am & includes a soccer game (10am), lunch at rrier Hse (12:30pm). Bring hamburgers & hotdogs, AFS will cook d provide the rest. Joel, x9554 Dorm.

Bridge Club* - ACBL Duplicate Bridge, Open Matchpoint pairs hurs, 7-10:30pm; non-masters (less than 20 master points) Fri, opm-12m; all Stu Ctr Rm 473. Jeff, 864-5571.

IT/DL Bridge Club** - ACBL Duplicate Bridge. Tues, 6pm, Stu tr Rm 473. Jeff, 864-5571.

hess Club** - Meeting Sat, 12n-5pm, Stu Ctr Rm 407.

ity

Thinese Choral Society** - Singing Sun, 3pm, Stu Ctr Rm 473.

IT Concert Band - Rehearsals Mon, 7:30-9:30pm & Wed, 10pm, Kresge. Seeking new members to fill many vacant chairs. ow brass and bassoon especially needed, but all are welcome.

Goju Karate Club* - Beginners enter class first week of each onth. Classes Mon, Wed, 7-9pm; Fri, 7-10pm; Stu Ctr Rm 491. erry Gibbs, 524-1251; Shawn, x3-2018.

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

sraeli Student Club - Lectures Tues, 8pm, Stu Ctr Mezzanine Lge.

IT Karate Club** - Shotokan style. Classes Mon, Wed, 8-10pm, uPont Wrestling Rm. Beginners welcome.

IT Kung Fu Club** - Instruction in the art of Chinese boxing, orthern Praying Mantis style. Tues, Thurs, 7pm, Stu Ctr Rm 407.

MITV News - Fri, Bldg 7 Lobby. If you would like to work on it or now of news that should receive attention, call Dave Neuberger, 47-8355, or John Krout, 494-9820. Don't forget to watch the

IIT Outing Club* - Mon & Thurs, 5-6pm, Stu Ctr Rm 461.

Recorder Players Unite!* - Anyone interested in playing ensemble usic is welcome & we have plenty of music. Tues, 7pm, ESG, 6th Bldg 24. Daniey Dreyfus, x3-7787.

IIT Schola Cantorum** - Rehearsals Tues, 7:30pm, Kresge.

cience Fiction Society* - World's largest SF lending library, now peated in Stu Ctr Rm 421 & 423. Open evgs, irregular hours, call head to x9144 Dorm. Society mets Fri, 5pm, Rm 1-236.

IIT Scuba Club - Compressor hours Mon & Fri, 4-6pm, Alumni ool. Dry session Tues, Nov 5, 8pm, Rm 20E-017. Tentative boat live the weekend of Sat, Nov 2. See sign up sheet at the pool.

Soaring Association - Ground school for private license. First neeting Wed, Oct 30, 7pm, Rm 18-491. John Cross, x3-1836.

trategic Games Society* - Offers opponents and discounts on perchandise to members plus gaming and periodical library. Sat, pm-1am, Walker Rm 318, Info, Kevin Slimak, 491-8568. Robert acks, 494-8889.

tudent Homophile League* - Meetings 1st & 3rd Sun of every nonth, 4pm, Rm 1-132. Info, talk, help in coming out: Jim, otline, x3-5440. Come out, come out, wherever you are!

student Information Processing Board* - Freshman especially elcome. Mon, 7:30pm, Rm 39-200.

MIT Tae Kwon Do Club** - Beginner and advanced classes. Tues, hurs, 5:30-7pm, duPont T-Club Lge.

ech Engineering News* - Office hours for MIT's undergraduate

rofessional journal: 12n-1pm, Stu Ctr Rm 453, x3-2989.

ech Model Railroad Club** - Business meeting. Sat, 4pm, Rm

echnique** - MIT's yearbook welcomes writers, photographers nd hackers, Sat, Stu Ctr Rm 451. Info, x3-2980.

iddlywinks Association** - Meetings Wed, 8-11:30pm, Stu Ctr Rm 473.

Inicycle Club* - Sun, 1pm, in front of Stu Ctr. Learn to ride a

olleyball Club** - High level instructional program designed to orm intercollegiate and AAU teams in November. Sun, 2-4pm,

MIT Wheelmen* - Meetings Tues, 7:30pm, Rm 1-203.

white Water Club** - Pool sessions. Tues, Nov 5, 8-10pm, Alumni

MIT Women's Chorale** - Thurs, 8pm, Rm 10-342. Open to non-student women.

ero Population Growth* - Meeting 2nd Wed of each month, :30pm, bsmnt Stu Ctr. Info, x3-7922, x0433 Dorm.

Noon Hour Events

ourt 3, duPont Armory.

alloween Concert* - Marian Rhule, organist. Program includes cott Joplin rags. Thurs, Oct 31, 12n, Chapel.

nder New Management* - Environmental Film Series. Fri, Nov 1, ²ⁿ, Eng Lib Rm 10-500. Free, coffee.

Pevils and Bells* - A belated celebration of All Saints and All ouls. Paul Earls, Steven Erdely and Church of the Advent Change lingers. Tues, Nov 5, 12n, Bldg 7 Lobby.

lission to Fra Mauro: Apollo 14 - AIAA Space Exploration Film Series, Tues, Nov 5, 12n & 1pm, Rm 3-133.

lute Concert* - Sharon Zuckerman, flutist. Thurs, Nov 7, 12n,

Keeping of the Green* - Environmental Film Series. Fri, Nov 8, 12n, Eng Lib Rm 10-500. Free, coffee.

Wellesley Events

Photographic Works by Man Ray* - From the collection of Arnold H. Crane. Thru Sun, Nov 3, main gallery of Jewett Arts Center, on campus, Hours: Mon-Fri, 8:30am-5pm; Sat, 8:30am-12n, 1-5pm; Sun. 2-5pm.

The Origins and Limits of Chinese-American Detente* - Donald Zagoria, Research Institute on Modern Asia, Hunter College. Barnette Miller Lecture Series on International Politics. Tues, Nov 5, 8pm, Wellesley College Jewett Arts Center Auditorium.

Social Events

Open House-Wine & Cheese Party** - Sponsored by the Association for Women Students. Mon, Nov 4, 4-6pm, Rm 3-310. Men and women welcome.

Halloween Costume Party** - Sponsored by the MIT Ballroom Dancing Club. Masked party with refreshments, dancing, Fri, Nov 1, 8pm, Tower Court living room, Wellesley College. Small donation at door. Jeff Alexander, 536-1300.

24 Hour Coffeehouse* - Enjoy relaxing conversation, piano playing, games, inexpensive food, candy & drinks. Open 24 hours a day, 7 day a week, Stu Ctr 2nd flr lge.

Movies

Portrait de Molliere* - Humanities Film. Wed, Oct 30, 4:30pm, Rm 4-270. Free.

Louisiana Story; Nanook of the North; Moana* - Film Section. Wed, Oct 30, 7pm, Rm E21-010. Free.

The Hunters* - Humanities Film. Thurs, Oct 31, 4:30 & 7:30pm, Rm 4-370. Free.

Under New Management* - Environmental Film Series. Thurs. Oct 31, 5pm, Eng Lib Rm 10-500. Free, coffee.

Summer of '42** - LSC, Fri, Nov 1, 7 & 9:30pm, Rm 26-100. Admission 50 cents, ID required.

Red Psalm (Jancso) - Film Society. Fri, Nov 1, 7:30 & 9:30pm, Rm 6-120, Admission \$1.

Butch Cassidy and the Sundance Kid** - Midnight Movie Series. Fri, Nov 1, 12m, Sala, Free, ID required.

Eyes of Hell** - LSC. Sat, Nov 2, 7 & 9:30pm, Rm 26-100. Admission 50 cents, ID required.

Long Days Journey into Night - LSC. Sun, Nov 3, 3 & 7pm, Rm 10-250. Admission 50 cents.

Asylum* - Humanities Film. Sun, Nov 3, 7pm, Rm 14N-0615.

Man with a Movie Camera; Kino Pravda* - Film Section. Tues, Nov 5 7pm, Rm E21-010. Free.

Man with a Movie Camera; Kino Pravda* - Film Section. Wed, Nov 6, 7pm, Rm E21-010. Free.

Keeping of the Green* - Environmental Film Series. Thurs, Nov 7, 5pm, Eng Lib Rm 10-500. Free, coffee.

Ruling Class** - LSC. Fri, Nov 8, 7 & 10pm, Rm 26-100. Admission 50 cents, ID required.

Weekend (Kjaerulff-Schmidt) - Film Society. Fri, Nov 8, 7:30 & 9:30pm, Rm 6-120. Admission \$1.

The Wrecking Crew** - Fri, Nov 8, 12m, Sala. Free ID required. Bring your own blanket.

Music

Chamber Music Society Concert* - Marcus Thompson, director. Wed, Oct 30, 5:15pm, Music Library.

Arnold Schoenberg Centennial Concert* - MIT Symphony Orchestra celebrating the centennial of Schoenberg's birth. Rose Mary Harbison, violin soloist. Program includes works by Bach, Schoenberg and Brahms. Sat, Nov 2, 8:30pm, Kresge. Tickets free to MIT community, \$1 at door. (the concert will be aired by WTBS, 88.1fm, on Sun, Nov 3, at 4pm).

Concert* - Jesus Maria Sanoroma, pianist. Program of Schumann. Music Section, Sun, Nov 3, 3pm, Kresge, Free.

MIT Logarhythms* - Collegiate sing with the Tufts Beelzebubs and the Jackson Jills. Sun, Nov 3, 7:30pm, Kresge Little Theatre.

Theatre and Shows

A Streetcar Named Desire* - By Tennesee Williams. MIT Community Players. Wed-Sun, Oct 30-Nov 2; 8pm, Kresge. Admission: \$2.75. Reservations, x3-4720.

Shira and Michael: A Program of Drama and Music* - Sponsored by Hillel. Sun, Nov 3, 7pm, Burton Hall. Free.

My Fair Lady - Musical Theatre Guild production. Fri-Sun, Nov 8-10 & Thurs-Sat, Nov 14-16, 8pm; matinee Sun, Nov 10, 2pm; Kresge. Admission: eveining \$3.50, \$2.50 with ID; matinee \$2.50, \$1.50 with ID. Reservations: x3-6294.

Dance

Folkdancing - International: Sun, 7:30-11pm, Sala. Balkan: Tues, 7:30-11pm, Stu Ctr Rm 491. Israeli: Thurs, 7:15-10:30pm, Sala. Noon-dancing: Fri, 12n-1:30pm, Kresge Oval in good weather, otherwide Bldg 7 Lobby.

Exhibitions

The Eye of Paris By Brassai* - Photographs by the renowned

Hungarian artist. Thru Sat, Nov 16, Hayden Gallery. Hours: daily 10am-4pm, Tues evg, 6-9pm, Free.

Alper Exhibit* - Selection of drawings by Boston artist Natalie Alper. Thru Sat, Nov 16, Hayden Corridor Gallery. Sponsored by the Committee on the Visual Arts.

Color Etchings* - Etchings experimenting with viscosity by Meg Dawson, Experimental Etching Studio, Boston. Nov. Rotch Library, during regular library hours.

One-Man Show* - Photographs by Diana Schoenfield. Fri, Nov 1-Fri, Nov 22, 10am-6pm, Creative Photography Gallery.

Exhibition of Photographs* - Travel and still life photographs by the noted author, Alice Curtis Desmond. Fri, Nov 1-Sat, Nov 30, Faculty Club.

Multiple Interaction* - Sculptures by Fellows at the Center for Advanced Visual Studies. Thurs, Nov 7 - Fri, Nov 15, Bldg 7 Lobby.

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

Athletics

Schedule of Home Events - Saturday, November 2 & Sunday, November 3 - V Sailing, Schell Trophy, 9:30am, Charles River Lower Basin. Thursday, November 7 - W Volleyball. Brandeis, 7:30pm, duPont Gym. Saturday, November 9 - V Soccer. Coast Guard, 2pm, Briggs Field.

Registration for Second Quarter Physical Education Classes -Thurs, Oct 31, 10am-1pm & 2-3pm; Fri, Nov 1, 1-3pm; duPont

Squash Rally** - Meeting for students interested in playing intercollegiate squash. Thurs, Oct 31, 5pm, Stu Ctr West Lge. Cider

Religious Services and Activities

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

Baha'i Discussion Group* - Thurs, Oct 31: outline of the history of the Baha'i faith and discussion of any questions pertaining to same. 7-9pm, Rm 8-105. Refreshments. Dale, 734-0648.

Campus Crusade for Christ/College Life* - Family time, singing, prayer, teaching from God's word. Fri, 7:30pm, Rm 37-252.

Christian Science Organization* - Weekly meetings, including testimonies of healing. Tues, 7:15pm, Rm 8-314.

Eastgate Bible Study* - Discussing Book of John. Thurs, 8pm, Eastgate Apt 24C. Info, Ed Fielding, x3-3638.

Hillel Services* - Fri: Traditional 7pm, Rm 16-134; non-Traditional 8:30pm, Chapel. Sat: Traditional 9am, Chapel. Mon-Fri, Minyan 7:30am, Rm 7-102.

rehearsal rm B; discussion session Sat, 4:30-6:30pm, International Stu Lge (2nd fl Walker); Quaranic Tasfeer session Wed, 8-10pm, Rm 14N-313. Roman Catholic Mass* - Sun, 9:15am, 12:15pm & 5:15pm; Tues &

MIT Islamic Society* - Congregational prayers Fri, 2:14pm, Kresge

8am, 12:05pm, 5:05pm. All Souls Day: Sat, Nov 2, 5:05pm. Chapel. United Christian Fellowship* - Meet for teaching, singing, sharing

Thurs, 5:05pm; Fri, 12:05pm; Chapel. All Saints Day: Fri, Nov 1,

and prayer with the Lord. Tues, 6pm, Rm 8-105. Preceeded by dinner at Walker, 5pm.

United Christian Worship Service* - Sun, 10:45am, Chapel.

United Christian Fellowship** - Sunday school and nursery for infants and children during United Christian Worship Service. Sun, 1-:45-12n, Stu Ctr Mezzanine Lge.

Vedanta Society* - Service Fri, Nov 1, 5:45pm, Chapel. Swami Sarvagatananda will give a discourse on Bhagavat Gita.

Westgate Bible Study* - Wed, 8pm, Westgate Apt 1210. Info, 494-8778.

Announcements

BSO Tickets Available - Tickets for open rehearsals are available at reduced prices at TCA office, Stu Ctr Rm 450, x3-4885. Rehearsals 7:30pm, Wed; the program is the same as the following Sat performance.

Lawrence Livermore Laboratory: Summer Employment - Brochures and applications available in Career Planning & Placement Office, Rm 10-140. Applications deadline: Jan 15, 1975.

Newspaper Stand - Open Mon-Fri, 7:30-10am & 3-6pm, Bldg 7 Lobby. Papers sold: Globe (morn & evg), New York Times, Wall Street Journal, Boston Herald (& Camb/Som), Christian Science

Biomedical Engineering Examination - The oral admissions exam for the Interdepartmental Doctoral Program in Biomedical Engineering will be given the week of Nov 18-22. Students wishing to take the exam should register with the Committee Office, Rm 37-219, by Mon, Nov 4.

Activities Development Board - The Board is accepting applications for capital equipment funding for student and community activities until Thurs, Oct 31. Applications are available in Dean Holden's office, Rm 7-101.

Unicef Cards for Sale - Many styles, including calendars. Beginning Wed, Oct 23, after 11am, TCA office, Stu Ctr Rm 450, x3-4885.

Send notices for November 6 through November 17 to the Calendar Editor, Room 5-111, Ext. 3-3279, before Friday, November 1.

CLASSIFIED ADS

All 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, November

For Sale, Etc.

Slp sofa & mtch chr, early Amer style, best. Lloyd, x 3-7220.

Stereo: BSR McDonald 310 trntbl, TDC IV spkrs, Camb Audio amfm rcvr, Roberts cassette rcrdr, earphones, \$200; mtd mirror, 5x3½', perf, \$35; 12" bw TV, \$25. Bonnie, x3-5513.

KLH 40 tape deck w/case, b nw, \$89. Steve, x3-3518.

Port Smith Corona typwrtr, b nw, \$25. Sung, x 3-6069.

VW 5.60x15 snows \$10; ski boots sz 7 \$ 5, \$20/ea. John, x8-2006 Draper.

Petri SRT 35 mm camera w/50 mm 1.8 lens, case & elec flash, \$100. Barbara,

Craftsman 7 drwr mtl machinists chest, exc cond, \$25. Al, x5873 Linc.

BR set; DR set; TV; baby carriage, hichr, crib, stroller; dbl bed matt & foam; sofabed. Call, 494-8259.

Moving to Calif: 5 yr old Lambert 6 hp snowblower, \$150; lg playpen, exc cond, \$10; uphol washable hichr, exc cond, \$10. Steve, 899-6797.

Skis: Lamborghini mtl 190 cm Tyrolia bndgs, Humanic boots sz 81/2-91/2, poles, all v gd cond, \$60. Call, 742-8466.

Antique poster from WWII, "Czechs Join our Free Colors", \$35. Liz,

Comp ski outfit, used 2x, exc cond:

180 cm Kastle Rally 4 fbrglas skis, Salomon 404 step-in bngs, Henke sz 8 boots, fit shoe 7-9, Doure poles, \$100. Call, 354-2357, aft 6.

Bike rack w/bmpr mnt, holds 2 bikes, fits most Amer & some foreign cars, \$5. Rich, x3-6005.

Philco 19" b&w port TV w/UHF, gd pic but nds some work, \$25. x9439 Dorm, aft 7pm.

Misc scuba gear & nw Merc 20 hp outbrd w/2 gas tanks; scope; RF gen; fm stereo gen; audio osc; transistor testor & other elec equip; all perf cond. Peter, 494-8994

Stereo equip: Dynaco PAT-4, stereo 120, \$150 both; Janszen Z410 Electrostatic Idspkrs, \$250/pr; all w/Dual 1229 Q & Shure V-15 type III, \$580. John, x0253 Dorm, kp try.

unstud ww snows w/o rims, G70x15, fit 8.25x15, less than 500 mi, \$30 or best. Bill, x182-183-258, Bedford Fl.

Girl 20" bike, lk nw; counter top elec oven; elec deep fryer. Herb, x5721

Exc hand made student violin, \$225

firm. Call, 742-8466.

Entire contents of apt, furn, rugs, appliances, stereo, bric-a-brac, clothing, etc. Clare, x3-1525.

Pr 8.25x14 stud snows, 1 seas, \$35; set parts for famous brand homemade MIT spkrs. Sara, x7195 Linc.

Upright piano, gd cond, \$200 or best, must go! Fred, x3-3406.

Nw Cordovox accordian w/deluxe pickups, gen & amp, \$1000 sacrafice. Anita, x3-3866.

Used VW snows, 2, 5.60x15, \$15/pr. Alan, x3-5200.

Scott stereo rcvr, \$100; pr unmtch spkrs, \$70; outbrd motor, as is, best; Pioneer stereo rcvr, as is, \$25. Ernie, x9610 Dorm.

Page 6, Tech Talk, October 30, 1974

Pr Sears dynaglas belt snows, F78x14 (7.75x14), mtd Ply/Dodge rims, driven 3K, \$40. E. Nesman, x181-56-141 Haystack.

Brass frpl set; end tbls; coffee tbl; chrs; lamps; misc. Call, 643-9643, aft 6:30pm.

Canon 8 mm motor zoom EEE, SLR 3 spd, 4-1 zoom, sldm used; exercycle; ft locker; wht enamel storage cab. 18x30x36", formica top; best. S. Batra, 646-3157.

Orchid flowers, \$3. Jim, x3-1363,

Mtrcycl helmets, 2, sz M & 7 1/8, 1 b nw, 1 \$15/ea, \$25/pr. Anne, x3-3727.

Milk cans: lg w/cover, \$20; med, \$10; or best. Ed, x8-1811 Draper.

Nw Sears hi-voltage batt w/wrnty, \$20. Len, x 3-7236.

Wlnt china cab, 48"w x 65"hi, \$75 or best. Call, 696-3750.

Full length wht afghan m coat, exc cond, nw \$200, sacrifice \$90. Call, 876-7078.

Nordica ski boots, f sz 7, lthr, bckl, v gd shape, \$13. Yvonne, x3-2589.

Head std skis, 180 cm, gd cond; Henke bckl boots sz 8, f; bndgs & poles; \$60/lot. Call, 484-1098, aft 5.

Pine 4 drwr chest, \$5; frpl assembly, scrn & andirons, solid brass, \$20; wht & gold shadowbox, \$25. Bart, x8-4098 Draper.

Ampeg amp, (2) 12"spkrs, 75 WRMS. all nw tubes, exc cond, \$200. Bob, x8-4598 Draper.

LR chrs, 2, gd cond, \$40/pr. Call, 899-9629.

Snow blower, \$50; lawn mower, \$50; pool tbl, \$125; or best. Rob, x3-7053.

Semperit umntd snows, 4, for 12" whls, used 2 seas, gd cond, wl sell in prs. Jim, x9844 Dorm.

SCM Classic 12 typwrtr, v gd cond, \$45. x8984 Dorm.

B nw nvr worn sz 10 Pricilla of Bos wedding gown, chapel length veil, cost \$525, best, x7706 Linc.

Boy 3 spd sport bike, Raleigh chopper, w/pedal & hand brakes, exc cond, \$60. Robert Var, x8-1587 Draper.

Soccer shoes m sz 7, Adidas Wembley SL, worn once, too small, cost \$29, ask \$24. Carley, x3-4276.

North Face Sierra down parka w/hood, lg, b nw, \$45; Framus folk guitar w/hard case, \$85; nw Simplex rear derailleur, \$4. Mike, 354-7046, evgs.

Comb stereo/b&w TV, exc cond, \$150; above grnd pool, 24x12', nds liner, incl 2 sun decks, fltr, ladder, see in Revere, best. Agnes, x 3-1467.

Stl 14" shlv brkts, \$.75/ea or 10/\$7; B scale, not v accurate, \$2. Helen, x3-7690

Pentax Spotmatic 55 mm camera, f1.8, w/case, \$115; Takumar smc 135 mm, f3.5 lens w/case, \$80; Vivitar 2X auto teleconverter, \$10; auto extension tubes, \$15. x3-5791.

Pr Frstne T&C stud snows on Chevy whls, F78x14, used 6K, \$45. Jim, x8-1231 Draper.

WI exch gd qual handblt pottery for gd qual b&w photoprocessing. x 3-1996.

Frigidaire washer, nds work; 25 panes used glass, 16x26 & 16x48. Nick,

GE refrig, gd cond, 10 cu ft, wrnty. x 3-4965.

Bruins tckts, 2nd balc, games in Nov.

Pr 12" whis for Toyota Corolla, \$10; elec popcorn popper, \$2; stove-type hotplate, \$4. Dave, x3-7915, aft 12n.

Inf feed tbl, \$10; 2 fold booster chrs. \$4.50/ea; girl fig skates, sz 2, \$10; girl tap shoes sz 11½, 12½, 13, \$4/ea. x 8-4095 Draper.

Ski boots sz 8N, Lange Competition, Flow, 5 blck, \$45 or best. Linda, x3-7023.

Ski boots sz 10, \$10. John, x3-1836.

McGraw-Hill hndbks: EE & physics, lk nw, orig \$34.95, \$37.45, \$25/ea. MIT Press 4 vol math set, \$5. Ken, 484-2510

Furn: sofa, 3 chrs, refrig, K tbl w/chrs. John, x3-4956.

Snows, F70x15 (7'75x15) premium 4 ply polyglas belt, few miles, \$50. Call, 494-9131, evgs.

Sturdy Ital hiking boots, sz 8-81/2 (Eur sz 40), nw, over \$50, ask \$25 or best.

Joe, x3-2677. Lessler 23-C colorhead enlarger w/Schneider Componon lens, 21/4x21/4,

35 mm glassless carriers, nvr used, \$150; asst equip: print trays, tongs, lite, easel, roller, etc, nego. Jon L,

Natural rabbit coat w/hood, trim red fox, sz 12-14, \$200. Farah, x3-6607.

Sears Allstate snows, 370x14, ww t-less, mtd & balanced, used 1 seas, \$40. Call, 272-1413.

F bge raincoat w/zip in lining, sz 8, b nw. Bernie, x 3-5246.

Snows, 2, 7.75x14 ww, stud, gd cond, \$40. Bill, x366 Linc.

Wide angle lens for 4x5 Zeiss Biogon 76 mm f4.5 in shutter, 1-1/500, m&x in Linhof lensboard, incl 2 fltrs, in \$1,000 or super Angulon & cash. Herman, x 3-1916.

Pr stud snows, 6.85-x15, fit Volvi, v gd cond, \$29. Leonard, x3-2656.

Pr stud F78x14 snows, mtd on rims, \$25. x 5886 Linc.

Nikkor lens for Nikon, Nikkormat 35 mm wide angle f2, lk nw w/skylite fltr, case; 52 mm Hoya fltrs, nvr used, for color film, nos 80B, 81A, 85B, for b&w ns 25, A (red). Mr. Mayer, x5545

Lamps: standing, desk, tbl, \$5-10 ea. Eric, x3-6673.

Delta super-sure trac stud snows, 2, almost nw, \$15 ea. Fisher, x3-5571.

Sears Penske Dwell tachometer, 4-8 cyl eng, \$25; Sears tape player w/fm stereo radio for car, nw, in box \$60; nw deluxe TC-83 solid st car tape player & fm stereo radio/brglr alarm, \$65. Don, x8-3333 Draper.

Piano, fine tone, exceptional base, 2 keys nd repair, best. Al, x 3-4245.

Changing tbl, \$10; frpl screen, \$10; shutters, \$2/ea; misc hsehold items. Call, 646-9471.

Skis, 2 pr b nw fbrglas K-2 Holiday & Hart-Camaro, 210 cm. x8454 Dorm.

Philco am car radio, 2 yrs, exc cond, \$25; Allstate transistor fm mono converter for above, exc cond, \$10; 2 ww Sears superwide H70x14 Silent Guard snows, exc tread, \$5/ea. Welch,

RCA 21" Accucolor SS TV, yr, \$350 w/std, x8-4415 Draper.

Oak "S" roll type desk, approx 4x2½x4½, over 60 yrs, best. Pat, x 8-4101 Draper.

WI swap gd AR3 woofer, mid, tweeter. for ident but zapped unit(s), half AR's price. Kim, x8-3648 Draper. Child f ice skates, sz 1, Dadust Tina

medalist mdl, used 10x, lk nw, \$9. Frank Bryant, x3-5317. Polaroid SX-70 SLR camera, 3 mos,

incl leath case, tripod, close-up lens, more, best; speargun & points, powerhd, etc, 3 bands, best. Bill, 868-8895. Garrett Synchro Lab 95B trntbl, \$85

or best. Hans, x3-5547.

Rosewd conference tbl, 20'x5', w/chrome std, almost nw, exc cond, \$1,700. Poppy, x3-1667.

Snows, 6.50x13, v gd cond, \$25/pr. Reed, x 3-4888.

Vehicles

'63 VW bug, gd for parts, \$50. Nicole, x8-1348 Draper.

'65 Comet, std, 23 mpg, \$150 or best. Francois, x3-5787.

'68 Rambler, 6 cyl auto, exc cond. Call, 527-9110.

'68 VW fstbk, cln, exc cond, nw orakes, 25 \$850. Call, 646-9561.

'68 VW, auto stick shift, selling compl rear end & trans, \$200 or best. Frank,

'68 Saab, V4, sunrf, tape deck, runs well, \$350. Adrienne, x3-1606, aft

'70 Maverick, 6 cyl std, exc run cond, must sell bec of illness, x3-2629.

'70 Toyota Corona Mark II, 4 dr, amfm, ac, 4 spd std, gd cond, 28 mpg, \$1,400 or best. Call, 667-9910, aft 5.

'70 Porsche 915, 5 spd, mint cond, \$2,650. x 8-4075 Draper.

'71 Chevelle, 4 dr, 6 cyl, auto, p st, 30 K, 18 mpg, \$1,500 or best. Jerry, x 3-2173.

'72 Audi S90, 40 K, 4 dr blk sed, 26 mpg city, nice, comfy, economy car, ask \$2,000. Van, x8-4046 Draper, 8-5. '73 Chevy sport van, exc cond, V8 std,

rust pruf, snows. Dulcy, x 3-5656. '73 Buick Century, grn, V8, auto, 2 dr, amfm, ww, 2 snows, CD ignition sys.

'73 Ford Pinto, 2 dr, 2,000 cc eng, bckt seats, auto stick shift, 10 K, radio, \$1,995. Philip Russo, x3-4509.

'73 Honda Civic, radials, snows, amfm, rust proofed, more, 10K careful miles, perf cond, \$2,495. Al Goldfinch, x3-5317, 10-4.

'71 Ford F-250, 3/4 ton pick-up V8, auto, 7,500 GVW, package, w/camper top, \$2,500. John, x3-2520.

'68 Yamaha, over 120 mpg, exc cond, 60 cc, \$125 or best. Bob, x3-2991.

Housing

Bklne/Allston, 2 BR, Harv Ave, blk off Comm Ave, htd, mod, avail immed, \$240, no fees, owner. Ed, x 3-4612.

Newtonville, 5 rm apt, \$325 + ht. x 3-1627.

Vt farmhse ski lodge, \$225/share. Gay, x3-7170.

Animals

Rare breed Tibetan spaniel pups, sm, intelligent, easy to care for, Nepalese import by Eng champ. Call, 491-4873, evg & wknd.

Med sz common angel fish nds home, \$2. Tony, x3-5717.

Calico kitten nds home. Ann Worden, x3-1233.

Free 9 wk kitten, litter trained. Joanne, x 8-1135 Draper.

Free kittens, litter trained. Bob, x8-2046 Draper.

Lost and Found

set keys btwn Tech Sq-Fac Club-EE dept, Mercedes key on ring. x 3-2145, 9-5.

Lost: off-wht cardigan swtr in Roach Lib or on 2nd fl btwn Roach & Bldg 3, Fri, Oct 18, label "Cecily". Beth, 267-5503.

Found: left glove, brn leath, acrylic lining, Gates Swagger sz E, on Eastgate wall, Oct 23. Murli, x3-2836.

Found: \$ nr Mass Ave. Call Campus Patrol.

Wanted

A pint of blood from everyone who's eligible. It will be put to good use. Don't delay; give today.

Nd my knee-length wool wntr coat expertly lined. Maryann, x3-6724.

Rims, 2, 13", for '72- Ford Pinto. Marcy, x3-3861. Carpenter or handyman to do outside work on Jam Pl hse, gutter, fence,

genuinely interested. Rmmate, lg 5 BR apt, Back Bay, own rm, eat-in-K, LR, safe & cln, on T, 7 walk MIT, part furn, avail now,

stairs nd repair. Nancy, x3-4433 if

Pr Bose 801's & 2 Bose equalizers. Bill Bradford, x8-4617 Draper.

\$110. Call, 266-7797.

Rmmate, 2 BR apt in 2 fam hse, Medford, big sunny BR, spac K, mod B, nr T, attic, porch, driveway, yard, gd nbrhd, I commute daily. Dan Bloom, x3-3190.

Reliable readers for blind stu, 2 hrs/ wk. x3-3127.

As much 1/2" cork tile as possible, up to 125 sq ft, reas price. Peter, x3-1913.

Low brass & bassoon players for Concert Band's fall concert & wntr tour, most levels competence valued. Margaret, x3-2906.

Guitar players, 2, want bass, drums, singer w/own equip to form rock group. Steve My ky tyn or Dave Haynes, 247-8764.

Piano, cheap or free, wl move. Ron, 628-7688. lve msg.

Car to deliver to San Francisco, lvg Nov 9, Helen, x3-1712.

Intermed f squash prtnr, play during wk on lunch hr reg basis. Liz, x3-6162. Btchrblk tbl to seat 4, reas. Call,

262-6153, aft 6pm. M rmmate, own BR w/1/2B, 3 BR apt. 2nd fl 2 fam Bel hse, mod, elec, gd

nbrhd & loc, yard, pkg, d&d, frpl, bsmnt, \$117 + elec, phone. Capers.

x3-5334.

Set used frpl tools. Call, 536-9348, aft

Responsbl stu to share comf apt w/our cat, rent free Nov-Jan, piano, pkg, 15 min walk MIT. Call, 267-7397, evgs.

Fr, Russian linguists, 1 wknd/mo, gd pay, must be US citizen, veteran. Steve, 232-5316, evgs.

F rmmate, share brite, cln Camb apt w/grad stu, Oxford St nr T, stores, avail now, \$100 incl ht. Jacqueline, x3-7039, morns.

Tape rcrdrs: real junk, cheap working or broken r-to-r or cassette, pref w/auto-rev or solenoid controls, x0572 Dorm, evgs.

Apt betwn Camb-Arl and Cent Sq brdr. x8981 Dorm.

Bike lock, pref kryptonite, cheap. Sue, x8405 Dorm.

Used elec calculator w/trig, logs, etc, under \$125. Mike, 661-3883, evgs.

Indiv to put '47 Pontiac in time; have timing chn but can't get it in time, nego. Donna, x3-6947.

Used Dolby unit; lg refrig, about \$50. x8717 Dorm.

Visit profs w/4 yr old son nd furn apt or sm hse to sub 1/75-7/75 nr MIT. Bob, x3-3724.

tions, w pay. Miss Holmes, x3-6337. Stu volunteers for 6 day nutrition

Rmmate, share lg Winchester duplex nr Rt 3, walk to train, furn or un rm, \$125. Marty, x5503 Linc.

Parking

Note to parking sticker swappers: please remember to inform your supervisor and the Campus Patrol of the exchange you have made so that

WI swap West for Kresge or Westgate.

WI swap Albany for Windsor. John, x 3-4956. WI swap West for East, 46-48 lot, or

WI swap West for East or Albany. Jacob, x3-6081.

Albany. Charlie, x3-2394.

Chicanos interested in publications, writing, marketing, etc. Jose, x3-2386.

Info specialist avail for lib research, prof trained & exp, can save u valuable time, hrly rates. Call, 868-6675 aft 6, kp try.

Typing theses, reports, stat, fast, accurate. Jean, x3-7410.

Phyllis, x3-4237.

This list includes all non-academic jobs currently available on the MIT campus. Duplicate lists are posted each Tuesday preceding Tech Talk publication date on the women's kiosk in Building 7, outside the Office of Minority Affairs, 10-211, and in the Personnel office E19-239, on the day of Tech Talk publication. Personnel interviewers will refer any qualified applicants on all biweekly jobs Grades I-IV as soon as

Persons who are not MIT employees should call the Personnel Office on

extension 3-4251.

Virginia Bishop

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

The District	0.1071
Mike Parr	3-4266
Philip Knight	3-4267
(secretary - Joy Dukowi	tz)
Sally Hansen	3-4275
Jack Newcomb	3-4269
Evelyn Perez	3-2928

3-4278 Pat Williams 3-1594 3-1595 Claudia Liebesny (secretary - Dixie Chin)

(secretary - Mary Ann Foti)

DSR Staff in the Center for Cancer Research will assist in biological experiments with RNA tumor viruses primarily in cell culture, and also in biochemical assays and specialized techniques with fluourescence microscopy. BA in biology, biochemistry or chemistry required. Tissue culture experience preferred but not required. 74-1282-R (10/16).

Admin. Staff Assistant Director for MIT Associates program which provides member industrial firms direct and convenient access to Institute's educational and research programs, and the Institute with unrestricted financial

Bike seat. Gordon, 494-8421.

Stu volunteers for 16 day nutrition study involving compl diet & collec-

study involving compl diet, collections, bloods, wl pay. Miss Holmes, x3-6337.

their records accurately reflect your new parking area.

Barbara, x3-5783.

Miscellaneous

Typing: gen, tech, IBM Selec, pica or elite. x3-6014.

WI type theses, manu, term papers, etc.

Positions Available

assistance and professional relationships. Liaison function between MIT faculty and research staff and company representatives. MIT degree (relevant MIT work experience considered), approximately 2 years of technical experience (preferably engineering), management perspective, and ability to deal with executives of small to medium sized corporations required. MBA preferred. 74-1316-A (10/23).

DSR Staff in Artificial Intelligence Lab will be responsible for maintenance and repair of PDP 11/45 computer and its peripheral equipment, debug software problems, recognize and correct hardware faults. Programming experience on PDP 11/45 computer and time sharing systems required. Some circuit design experience desirable. 74-1306-A (10/23).

DSR Staff, Optical Physicist, will conceive, design and execute experiments in nonlinear optics. Candidates should have several years' experience in innovative, experimental research including work in high-power, solid-state lasers from near ultraviolet to near infrared, and knowledge of nonlinear optical materials. PhD required. 74-1318-R (10/23).

DSR Staff Inorganic Chemist in Nuclear Engineering will assist in development of short-lived radio-nuclide generator for medical applications, conduct methods study for rapid separation of Ir (III) from Os (IV) using resin and inorganic ion exchangers and biological distribution studies of the generator eluant in animals. Graduate degree in inorganic chemistry, ability to conduct innovative, independent research, two years postdoctoral experience and experience with column chromatographic methods essential. 74-1302-A (10/23).

DSR Staff Experimental Optical Physicist, in Research Laboratory of Electronics will identify, formulate and implement key experiments on communications in low visibility atmospheres, develop general experimental capability in and formulate new directions for optical communications research. PhD in Engineering or physics required. 74-1301-A (10/23).

DSR Staff in Center for Cancer Research. Will maintain and monitor use of central electron microscope lab facility, instruct in the use of microscope and preparation of biological samples for observation, mount nucleic acids in basic protein fibers. Two or more years experience in use and maintenance of electron microscope and related equipment and the ability to instruct sources in new techniques required. Experience in sample preparation for electron microscope and familiarity with cell and molecular biology helpful. 74-1155-A (10/30).

DSR Staff, Computer Programmer part-time, in Economics will design user-oriented simulation and linear programming packages for general equilibrium urban location model, write small Fortran programs and read tapes. Familiarity with economic models, linear programming and numerical methods for solving non-linear equations required. 20 hrs/wk. Please submit resume. 74-1311-R (10/23).

DSR Staff in Center for Cancer Research will conduct experiments in lab studying genetics of animal cells in tissue culture, including maintenance and diverse manipulation of cells, use of radioisotopes for physiological and biochemical characterization. Will assume increasing responsibility for standard lab operation and independent work. BA or MS in biological science and some lab experience required. Tissue culture and/or radioisotope experience desirable. 74-1289-A (10/16).

Admin. Staff, Journals Manager at the MIT Press will be responsible for overall direction of Journals operation: budget, fiscal control, departmental workflow, staff supervision, production and subscription aspects, editor contact, assessment, acquisition and development of new journals. (Division currently publishes 4 quarterly and one monthly journal). Experience with business/financial aspects of publishing and/or scholarly journals publishing. 74-1273-A (10/9).

Admin. Staff, Applications Analyst in the Information Processing Center will help scientific and engineering users in use of mathematical computer programs, including libraries; may occasionally conduct class or perform contract computation. Masters degree equivalent in engineering, applied math or subject applying modern numerical methods to practical problems and programming experience required. Acquaintance with scientific program libraries and variety of programming languages desirable. 74-1271-R (10/9).

Admin. Staff, Assistant for Fieldwork will work with faculty responsible for a variety of fieldwork and research activities in the Laboratory for Architecture and Planning and Law-Related Studies Program. Develop fieldwork placements individually and in programs including identification of opportunities and funding sources; place students, prepare evaluation reports, program accounting and budgeting.

Knowledge and familiarity with MIT fieldwork programs in above areas, demonstrated ability to work with students, faculty, and graduate work in

DSR Staff Programmer at Project MAC will perform system analysis and system programming on a research version of the Multics operating system. SM or EE degree required; 2-3 years programming experience as the supervisor of some advanced operating system required. Ability to contribute to research and work with students important. 73-1234-A (10/2).

DSR Staff Programmer Analyst in the Electronic Systems Laboratory will participate in analytical and experimental research project on networking of information-retrieval systems, programming, designing and evaluating computer interfaces to interconnect interactive information systems. PL/1 experience, BS or equivalent experience required. Knowledge of Multics, 370/168 (TSO), ARPANET or TYMNET desirable. 74-1199-R (9/25).

DSR Staff Engineer in Earth and Planetary Science will be responsible for development and construction of astronomical instrumentation for use of telescopes. Experience in analog and digital circuit design and construction, EE degree and/or training required. Please submit resume. 74-1207-A (9/25).

DSR Staff in Earth and Planetary Sciences will analyze oceanographic samples by atomic absorption spectroscopy, mass spectroscopy and wet chemistry. One month of appointment may be spent at sea for sample collection. Background in lab chemistry required. BS in Chem. preferred. 74-1177-A (9/25).

DSR Staff, Programmer in the Laboratory for Nuclear Science will maintain and develop computer-based acquisition system comprised of large mini-computer (PDP-11/45). Comac instrumentation and in-house electronics. EE or Physics degree, or equivalent required. Experience in systems development on minicomputer preferred. Work sites include MIT, BNL, Fermi Nat'l Lab. 74-1183-R (9/25).

Administrative Staff, Assistant Director of Finance in the Office of the VP for Financial Operations will work on fiscal planning and budgeting, emphasizing short and long range strategies for fiscal balance. Extensive knowledge of academic programs, university finances, management accounting techniques required. MBA desirable. Submit resume. 74-1204-R (9/25).

DSR Staff at the Haystack Observatory in Westford, MA, will guide and participate in development, design and implementation of electronic instrumentation and computer software for interferometer (UBLI) experiments, which will measure tectonic plate motion; assist in analysis of data. Physics & EE background with Ph.D. research experience in radio astronomy. Computer programming, ability to work with radiometers and other radio astronomy instrumentation required, as well as previous experience with long baseline interferometry. 74-1161-R (9/18).

Administrative Staff Industrial Liaison Officer will provide interface among MIT faculty, staff and representatives of member companies of the Program, major industrial firms in USA. Masters degree, preferably MBA or SM, Ind. Management, with BS in science or engineering required. Ability to communicate effectively with corporate executives as well as technical staff of companies is needed. 74-1168-R (9/18).

Administrative Staff - Assistant Director, Science Writer for the News Office will write, coordinate, rewrite for popular readership news having to do with results of research in areas of science, engineering and technology. Deal with news media, provide administrative officers and faculty with advice regarding news preparation and dissemination. Handle non-scientific or technical news as office work load may require. Must be curious and able to generate news stories that will interest the public. Must be college graduate with five years or more as science writer for major metropolitan newspaper or equivalent. Please submit resume. 74-1137-R (9/11).

DSR Staff-Temporary for the Joint Center for Urban Studies will supervise the work of graduate research assistants working on topics related to public sector labor relations in Boston: Ph.D. or work toward advanced degrees required. Experience with research on municipal employee labor relations, and as a supervisor important. Job duration, approximately 6 months. 74-1126-A (9/11).

DSR Staff at the National Magnet Laboratory will work on the Alcator thermonuclear experiment. Conceive, design, and carry out plasma diagnostic experiments using neutron, X-ray, optical, electrical, magnetic and microwave techniques. Will aid in the analysis and assessment of data. Ph.D. in plasma physics or related area required; familiarity with tokamak devices desirable. 74-1136-A (9/11).

DSR Staff-Physical Chemist in the Research Laboratory of Electronics must be experienced in molecular beam techniques and surface science to conduct experiments on semiconductors and related materials. Ph.D. in Physical Chemistry required. 74-1110-A (9/4).

DSR Staff-Scientific Programmer in Earth and Planetary Sciences will work on analysis of celestial mechanics data from Mariner 9, MVM, Viking, Pioneer Venus Probes and other space related projects. Design, write, modify and run FORTRAN data-analysis program. Advanced knowledge of FORTRAN and minimum of 1 year professional programming experience required. Background in math, physics, engineering; knowledge of IBM/360/JCL and assembler useful. Submit resumes. 74-1267-A (10/9).

DSR Staff, Scientific Programmer in Meteorology will be responsible for running computer model of the stratosphere which is being used to assess ozone changes associated with high altitude aircraft and the space shuttle, and to produce output displays. Will adapt present code to Iliac IV computer. Considerable FORTRAN programming experience required. BA in mathematics or equivalent preferred. Some geophysical experience desirable. 74-1082-R (8/28).

Technical Assistant-Academic Staff in Nutrition and Food Science will perform specialized and routine chemical analyses on body fluids; responsible for operation and maintenance of mass spectrometer. A college degree in Chemistry or Biology required. Laboratory experience preferred. 74-1047-R (8/28).

DSR Staff in Energy Laboratory will design, build, and operate large scale heat transfer apparatus. Graduate degree in heat transfer; extensive experience in designing, instrumenting, and conducting laboratory tests in heat transfer experiments with a minimum of supervision required. 74-858a-A (7/31).

Biomedical Engineer-DSR Staff in the Mechanical Engineering Department will join MIT researchers and Children's Hospital medical staff to work on the conception of diagnostic and therapeutic devices and processes for human rehabilitation. Supervise technicians, participate in the supervision of theses and student projects. Education biomedical engineering required. Mechanical and/or electrical engineering, experience in engineeringphysician collaboration very desirable. Innovation, creativity, ability to coresearch essential. Possibility of lecturer appointment in Mechanical Engineering. 74-869-R (7/31).

DSR Staff Economic Advisor at the Joint Center for Urban Studies will advise the Presidents of MIT and Harvard on the state of the economy and labor force of Cambridge, and prospects for future economic development; evaluate proposals in fields of health, education, housing, transportation, and community development in view of their impact on the advisory committee of faculty and administration members from both institu-Doctoral degree or equivalent experience in urban economics, manpower, community development re-Ability to work effectively quired. with local government and university officials. Ability to plan and conduct research. 74-753-A (7/17).

Technical Assistant-Academic Staff in Biology will work on a project concerned with the analysis of macro molecular changes in differentiating myoblasts. Will use cell and tissue culture techniques, electrophoresis, labeling with radioactive isotopes and general biochemical methods. Minimum BS degree in Biology, Biochemistry or related fields; laboratory experience essential. Previous tissue culture experience preferred. 74-759-R (7/10).

DSR Staff in the Energy Lab must have minimum of 5 yrs experience in defining, securing support, organizing and supervising research in heat transfer related to energy production and utilization. Familiarity with MIT; experience in supervising student theses research and staff; Ph.D. in Mechanical Engineering required. 74-359-A (5/1).

Technical Assistant Exempt in MIT Historical Collections will evaluate, verify, and catalogue photo and biographical material, assist visiting scholars in use of facilities, answer verbal and written inquiries. Experience in working with research scholars, maturity, ability to handle detailed work accurately and typing ability required. Historical biographical research experience important. 74-1333-R (10/30).

Nurse, Exempt in Clinical Research Center will work with close supervision of head nurse and investigators in twelve-bed research unit, administer general and specialized nursing procedures and medications, take charge when necessary, work with laboratory and dietary department. Must be able to observe and chart accurately. Massachusetts R.N. license, graduation from accredited school, and previous nursing experience required. 74-1304-R (10/23).

Engineering Assistant-Exempt in the National Magnet Laboratory will set up experiments and take measurements of magnetic fields produced by humans and animals. Will work with hospital medical groups. Experience in biomedical research; strong experience in low-frequency electronics; knowledge of magnetics and cryogenics required. Flexible schedule necessary for occasional evening or weekend work. 74-1033-R (8/28).

Infirmary Staff Nurse-Exempt Bedside nurse in MIT Infirmary. Must be capable of administering first-aid and emergency treatment. Mass. Registered nurse with 1½-2 years experience, preferably in medical/surgical unit. Emergency Room or ICU experience desirable. 11pm-7am, weekend rotation, 74-1278 (10/9).

Food-Production Supervisor-Exempt in Food Service will be responsible for all operations of the kitchen and its food production personnel: daily production, inventory control, quality control and sanitation. Assist in menu planning and estimating food quantities. Manage administrative details in areas of personnel, payroll, budgeting, purchasing. Degree or experience in food production, menu planning, and operation of a food production facility required. Ability to train personnel important. Hours 6am-3pm, 2nd opening: irregular hours and weekends. 74-837-A (7/24).

Area Food Supervisor-Exempt in Food Service will be responsible for the unit serving areas: flow of food and utensits during meal periods: portion controls, sanitation. Will train and supervise pantry employees. Technical knowledge of food production; ability to work under pressure, irregular hours and weekends required. 74-835-A 74-836-A (7/24).

Technical Asst IV, part-time, in MIT Historical Collections will assist in various duties related to general operation of facilities: bookkeeping, typing, assist researchers, answer telephone inquiries. Bookkeeping and typing experience, interest in MIT's history, maturity, ability to do detailed work accurately required. 20hrs/week. 74-1332-R (10/30).

Technical Assistant IV part-time in the Research Laboratory of the Electronics will set up, carry out and analyze experiments in the field of letter recognition, including complicated statistical analyses. May direct others involved in the project. BA in Psychology, experience in letter recognition experimentation and knowledge of parametric and non-parametric statistics required. 15-20 hrs/wk. 74-1255-A (10/9).

Administrative Assistant V in Civil Engineering Constructed Facilities Di vision will assist Division Head and other faculty in all matters relating to operation of the Division: maintain and monitor budget, space assignment and coordination of moves, schedule and publicize seminars, publication distribution, library maintenance, inventory; student-related functions such as admissions, maintenance of records, administration of fellowships; other duties related to Divison's research programs. May do occasional typing. Strong ability to deal with figures and sensitive information, organization skill required. Experience sponsored research administration highly desirable. 74-131-A (10/23).

Secretary IV will handle standard secretarial duties for a group of Mechanical Engineering professors. Schedule travel, appointments, seminars; type correspondence, monitor accounts; secretarial training or experience, shorthand/dictaphone, technical typing skills required. Ability to communicate and to deal with students and staff important. These positions are available for "job-sharing." 74-949-R, 74-950-R, 74-951-R (8/14).

Secretary IV in Admissions Office will act as receptionist and assist in matters relating to foreign students: maintain files and records, interact with students, staff and outside agencies. College training, excellent typing required. Knowledge of student-related immigration and naturalization laws, facility in languages helpful. 74-1328-R (10/30).

Secretary IV to an Associate Director of the Alumni Fund will formulate and maintain consolidated file for major gift development, compose some correspondence independently, do statistical work, make travel arrangements, assist other secretaries. Good typing, shorthand, speedwriting and some college training required. Flair for writing and financial public relations background helpful, 74-1329-R (10/30).

Secretary IV to Director and Admissions subcommittee of the Harvard-MIT Program in Health Sciences and Technology will handle general secretarial duties including minute-taking, meeting arrangements, and assist in the admissions process through statistical record-keeping, application distribution, scheduling of interviews, attending Committee meetings. Position involves much contact with MIT and Harvard students, faculty. Typing, shorthand/speedwriting, ability to work with minimal supervision re-

quired. MIT or Harvard experience helpful, 40 hr work week, 74-1330-R (10/30).

Secretary IV to group of professors in Mechanical Engineering will handle correspondence, arrange travel, appointments and coffee seminars. Candidates should have high school training or equivalent, and secretarial training or experience, knowledge of basic bookkeeping, shorthand and familiarity with technical typing. Possible "job sharing" opportunity. 74-1334-R (10/30).

Secretary IV in the office of the Institute Secretary for Charitable Trusts will monitor the office budget; arrange appointment schedules and travel; type correspondence and proposals from dictaphone and handwritten copy; set up and maintain files; act as liaison between the office and other sources inside and outside MIT. May occasionally conduct research on charitable trusts and foundations. Excellent skills, organizational ability, professionalism essential. Previous ex perience required. 74-293-R (10/30).

Secretary IV in Aeronautics/Astronautics Innovation Center will perform varied secretarial duties for Center Director and other faculty and staff: type, answer phones, make travel arrangements and handle routine correspondence. Good typing, shorthand, command of English language and organization skill required. 74-1327-R (10/30).

Secretary IV to Administrative Officer in Center for International Studies will type memoranda, financial reports and other materials, maintain files and records, conpute and process voucher payroll, allocate costs to specific budgets. Excellent typing speed and accuracy and ability to learn and follow through detailed accounting and personnel procedures required. 74-1315-R (10/23).

Secretary IV in Nutrition and Food Science headquarters will handle a variety of secretarial duties for faculty, act as receptionist and assist headquarters personnel in other clerical duties. Good typing skills, knowledge of office procedures and ability to work independently required. 74-1312-R (10/23).

Secretary IV in the Electronic Systems Lab will perform all secretarial duties for several research staff, type reports and general correspondence, make appointment and travel arrangements, answer phones. Shorthand skill, technical typing or willingness to learn required. High school training, or equivalent, plus three years secretarial experience or secretarial school or one year college training plus one year secretarial experience required. 74-1309-R (10/23).

Secretary IV part-time, in editorial section of Nutrition and Food Science will type scientific manuscripts in diverse subject areas, including some technical material. Good secretarial skills including accurate typing required. Knowledge of medical, biological and/or chemical terminology helpful. 20 hrs/wk 74-1300-R. (10/23).

Secretary IV to three faculty members and several research staff in Laboratory for Nuclear Science will type reports and papers including technical material, answer phones, make appointments and travel arrangements, file and handle other standard secretarial duties. Excellent typing and dictaphone skills required. 74-1307-R (10/23).

Secretary IV to professors and research staff in Aeronautics and Astronautics will handle a variety of duties including typing reports and class material (much technical), independently answering correspondence, composing letters from verbal instructions, maintaining files and accounting records, making travel arrangements. Technical typing ability required. Knowledge of MIT procedures preferred. 74-1290-R (10/16).

Secretary III-IV for two Metallurgy and Materials Science professors will type correspondence from dictaphone; type technical papers, manuscripts, class notes. Maintain files, monitor accounts. Excellent typing, proof-reading skills, good command of English language required. MIT experience preferred. 74-11690R (9/18).

Secretary IV to several Mechanical Engineering professors will handle correspondence, travel arrangements. Shorthand/dictaphone skills, knowledge of bookkeeping required. Technical typing ability and secretarial schooling or experience preferred. This position is available for "job-sharing." 74-1031-R (8/28).

Secretary IV to the Assistant Dean for Student Affairs will type a variety of materials from dictaphone, provide secretarial support for fraternity-related affairs and assist with overflow work for two other staff members. Excellent typing and dictaphone skills required; ability to deal effectively

(Continued on page 8)

Positions Available

(Continued from page 7) with students to organize in the midst of confusion necessary. 74-1086-A (8/28).

Secretary IV for Mechanical Engineering will handle general secretarial duties for several professors in thermodynamics. Type technical reports and manuscripts; maintain accounts. Excellent typing required, technical typist preferred; knowledge of office procedures, ability to organize, set priorities important. 74-256-R (6/5).

Secretary IV to the Institute Secretary for Foundations will be responsible for budget accounting, file maintenance; research in reference materials, maintain communications and smooth relations with top level offices of the Institute. Excellent secretarial skills, ability to organize and use discretion required. Knowledge of MIT desirable. 74-332-R (4/24).

Secretary III-IV in Project MAC will handle general secretarial duties for faculty member and research associate, maintain special files and manage document distribution. Excellent secretarial skills including typing and ability to use dictating equipment, willingness to learn computer use and to work independently required. 74-1097-R

Secretary III-IV to senior faculty member in Electrical Engineering will type course notes, reports and proposals, schedule appointments and travel. Initiative, technical arrange typing skill and ability to work without supervision required. 74-1336-R (10/30).

Secretary III-IV to an Associate Director of the Alumni Fund. Will develop and maintain consolidated file for major gift development, compose some correspondence independently, arrange meetings, luncheons, do some statistical work. Good typing, shorthand/ speedwriting, and some college training required. Flair for writing and financial public relations background helpful. Will be trained to use IBM Auto, Typist. 74-1245-R (10/2).

Secretary III-IV for three professors at the Sloan School will handle general secretarial duties in one-person office; make travel arrangements; type and arrange duplication of course materials including manuscript and technical typing. Secretarial training, very good typist willing to learn technical typing, and ability to organize and work with a minimum of supervision required. 74-829-R (9/25).

Secretary III-IV will work for one professor in Metallurgy and Materials Science. Type from machine or direct dictation, including some technical; maintain files, monitor OSP accounts, schedule travel; conduct moderate library research. Excellent typing, good command of English required. MIT experience, shorthand or speedwriting desirable. 74-1181-R (9/25).

Secretary III-IV in the MIT Associates Program will handle general secretarial duties for one staff member servicing industrial firms' participation in the Program in their dealings with MIT. Excellent office, shorthand and typing skills required. Secretarial or business school background and previous experience desired. 74-1165-R (9/18).

Secretary III-IV for two Metallurgy and Materials Science professors will type correspondence from dictaphone; type technical papers, manuscripts, research proposals, student reports, class notes. Maintain files, monitor accounts. Excellent typing, proof-reading skills, good command of English language required. MIT expe-rience preferred. 74-1169-R (9/18).

Secretary III-IV in Nuclear Engineering will handle general secretarial duties for several faculty and staff; type class materials, correspondence, manuscripts, reports from handwritten notes, transcription and dictaphone. Schedule travel, appointments, meetings. Good typing, organizational skills required; experience with dictaphone, technical typing, shorthand desired. 74-959-A (8/14).

Secretary III in the Center for Space Research Man-Vehicle Laboratory will perform standard secretarial duties for faculty and staff. Excellent typing and dictaphone skills required. Familiarity medical terminology desirable. 74-1296-R (10/16).

Secretary III-IV to an Urban Studies and Planning professor will type manuscripts, correspondence and reports; maintain office files; set up appointments; arrange travel. Excellent typing, previous secretarial experience, dictaphone skills essential. 74-972-R (8/14).

Secretary III to two professors in Sloan School will type manuscripts, proposals, class material, handle administrative details of two Summer Session

Programs, answer phones. Good typing and willingness to take responsibility required. 74-1268-R (10/9).

Secretary III part-time in Law-Related Studies Office. Will type, maintain several accounts, answer phone in busy office. Good typing, ability with figures required. Much internal liaison with staff and students. 171/2 hours per week. 74-1236-R (10/2).

Secretary III, part-time in Sloan School will work with one professor in field of Economics, perform standard secre-Excellent typing, mand of English grammar, and willingness to learn technical typing required. 20/25 hours per week, preferably evenings. 74-1150-R (10/2).

Secretary III to several staff members of the Center for Theoretical Physics. Excellent typing needed for technical reports, manuscripts and correspondence (technical typing skills helpful); ability to work effectively with stuguests, and faculty important. 74-883-R (8/7).

Secretary III to faculty and research group in Research Lab of Electronics will type manuscripts including techmaterial, make appointments, independently reply to correspondence and compose replies from oral instruction. Shorthand skill and excellent typing ability required. 74-1174-R

Secretary III in Chemical Engineering will type quizzes, reports, technical manuscripts, proposals for three faculty members. Will arrange appointments, maintain student records, act as receptionist for the office. Dictation from tapes; technical typing experience preferred. Prompt, dependable individual with ability to follow through on details desired. 74-1105-R (9/4).

Secretary III in the Research Laboratory of Electronics will take shorthandle correspondence, make appointments, type course notes, problem sets, quizzes, some involving technical typing; will maintain a small library for journals and technical reports. Some secretarial experience or schooling required. 74-634-R (6/5).

Library Gen Assistant III in Aeronautics/Astronautics Library will manage circulation desk; charge, renew and reserve books; send overdue notices and bills; check in new periodicals and microfiche; supervise book stacking, assist with special projects. Accurate typing and capacity for detailed work required. Library experience preferred. 74-1131-R (10/30).

Accounting Assistant IV-V in Nutrition and Food Science will handle varied accounting tasks including monthly preparation and review of several research grant projections, assistance in NIH grant proposals, monitoring of grant travel budgets, payroll preparation and verification of account balances. Accounting school graduate or current evening accounting school student preferred. Accounting experience required. 74-1299-R (10/23).

Clerk Typist III in Planning Office will operate IBM Mag Card equipment, or equivalent, type reports, other correspondence, some charts and tables from hand-written and dictated copy. Su-perior typing skills, knowledge and/or experience with word-processing equipment, or willingness to learn through self-administered instruction program, Position is temporary June, 1975. 74-1303-R through (10/23).

Technical Typist III will assist in the production of the Neurosciences Research Program Bulletin through use of IBM/MTST composer system. Type manuscripts; adapt format, scientific symbols, tabulations, etc. to style of the Bulletin; proofread copy; check bibliographic format. Good typing skills essential; knowledge of publications procedures. Applicant can be trained on MTST. Off-campus location (Brookline); own transportation desirable. 74-985-R (8/28).

Accounting Clerk III-IV in Biology will prepare payroll reports, forecast sheets, travel and other vouchers, set up and maintain payroll accounting and budget files, and do other general office work as required. High school graduate, or equivalent, accounting experience and typing skill required. 74-1281-R (10/16).

Clerk-Typist III, Temporary, 6 months, in the Alumni Ass'n will type correetions to Alumni records from handwritten questionnaires. Extremely actyping and ability to learn ly required. 74-1211-A quickly required. 74-74-1213-A, 74-1214-A (9/25).

Technical Typist III in Chemical Engineering will type large volumes of reports, manuscripts and proposals from rough drafts using a magnetic tape typewriter. Excellent typing skills required; ability to handle equations and chemical symbols, punctuation and paragraphing necessary. 74-741-R

Clerk Typist II-III in Grants/Contracts Section of Comptrollers Accounting Office will type bills to industrial government sponsors, and fiscal reports for submission to sponsors and Institute officers. Excellent typing skill required. 74-1293-R (10/16).

Clerk II in OAIS will operate computer output processing equipment (burster, decollator), maintain stock of com-puter paper, cards, forms; deliver computer output. High school graduate or equivalent, and ability to follow directions required. 40 hr/week. 74-1335-R (10/30).

Matron, hourly, in the MIT Infirmary will be responsible for cleaning, drymopping, dusting and vacuuming patient rooms, administrative offices and examining rooms; change linen, empty wastepaper baskets and clean lavatories. Will also maintain adequate supplies in all areas and assist with stocking assignments. Previous work experience, neat appearance and maturity required. 7am-3pm, M-F, weekend rotation, 74-1326-R (10/30).

Cook's Helper in MacGregor Kitchen will prepare salads and dressings, prepare and cook vegetables, clean work area and perform other tasks as required. Experience in cooking and salad preparation, neatness and ability to follow written recipe instructions required. 40 hr week, 10am to 7pm. 74-1305-R (10/23).

2nd Class Engineer must have a Mass second class Engineer's license or higher. Individual must be willing to work on any shift. 74-182-R (11/24).

3rd Class Engineer at the Power Plant may work any and all shifts and do all kinds of work, consistent with self sufficiency of the Plant. Mass. Third Class Stationary Engineer's license or a license of a higher grade required. Experience on high pressure boilers, oil and gas fired with automatic combustion controls, turbine driven auxiliaries: AC and DC generation, switch-board, and fed water control required. Some experience on turbine-driven refrigeration equipment is desirable, 74-422-A (5/29).

Tech A (E-M) for the Radioactivity Center will assist in laboratory, re-search or analytical work; operate technical experimental apparatus. Maintain electronic equipment associated with controlled low-background facility, breath radon, thoron equip-ment. Troubleshoot nuclear pulse instrumentation, construct, wire, perform routine tasks associated with measurement of subjects and administration of laboratory. Strong background in pulse and digital circuits; experience in use of oscilloscopes and test instruments required. 74-922-R (8/28).

Waitresses/Waiters Part-time Waitresses at the Faculty Club will set up silver and china on dining room tables. Take number orders; serve food and beverages. Clear, clean and reset tables. Experience helpful, but not necessary. Shifts: M-F 11am-3pm. All positions may require weekend work. 74-1059-R

Groundsperson for Physical Plant must be physically qualified to lift heavy on trucks, such as rubbish, platforms, fertilizer, concrete blocks, lumber, gravel, equipment, snow. Experience in general grounds duties such as cutting grass, watering and care of lawns required. Mechanical aptitude helpful. Special physical examination, Mass. Driver's license required. Wed-Sun; 40 hour work week. 74-978-R

Counter Person at the Student Center will be responsible for the set up of the service area: serve from the Hot Food Counter. Ability to understand English 10:30am-7:30pm Sat-Sun, required. Part-time (16 hours). 74-998-A (9/4).

Mover for Physical Plant will transport various materials and equipment (medium or heavy nature) to designated locations; assist with snow removal. One year experience in general moving procedures, rigging, loading and unloading heavy equipment; ability to pass special physical examination, unrestricted Mass. Driver's license required. Experience in special handling of equipment such as oil filled transformers etc. desired. 74-773-R

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

74-1202-A Secretary IV Secretary V 74-1277-R DSR Staff 74-885-R Secretary IV Jr. Diet Aide II 74-1274-R 74-1285-A 74-1294-R Sr. Clerk III 74-1263-R Secretary IV 74-1056-R Secretary IV 74-94-A Campus Patrol 74-1231-R Secretary IV Secretary IV 74-1223-A 74-1198-R Secretary IV 74-1-57-8R 74-1132-R Secretary IV Secretary IV-V Clerk Typist II 74-1266-R Lib. Gen. Asst. III 74-972-R Secretary III 74-726-R Truck Driver 74-1066-A Comp. Op. IV 74-1292-A Cashier II-III 74-929-R DSR Staff (cancl'd) 74-936-R Houseman Tech. Asst. IV 74-1275-R

- Art Notes -

Desmond Photographs Displayed at Faculty Club

Thirty travel photographs by neering from MIT in 1909. noted author Mrs. Alice Curtis Desmond will be exhibited at the MIT Faculty Club through the month of November.

The photographs on display are part of a collection of 68 prints, most of which have been offered to MIT as a gift. In addition, Mrs. Desmond has donated a complete set of her 20 books to the MIT Libraries.

Images from three continents recorded on both black and white and color film make up the exhibition in the Faculty Club. Photographs of the familiar wildlife of Africa and Australia constitute a significant portion of her works, which also include views of African landscapes, aspects of Paris, and American scenes. A sprinkling of still-life photographs is found throughout the collection. Concurrently, Mrs. Desmond's books will be on display on shelves in the Proctor Room of the Faculty

Mrs. Desmond's writingswhich include travel books, children's books and historical novels-reflect her wide experience and lifelong travels.

Born in Southport, Conn., in 1897, she attended Miss Porter's School, Farmington, Conn., and studied at Parson's Art School. New York, the Columbia University School of Journalism, and with private writing and art teachers. In 1923 she was married to the late Thomas C. Desmond, New York State Senator, engineer, and benefactor of higher educa-

Together, they made three world tours during which Mrs. Desmond pursued her interest in photography. Many of the photographs in the November exhibition represent highlights of the adventures of these tours.

Mrs. Desmond's photographs and her writings, which are included in 11 anthologies, have received many honors and awards.

Her books, Far Horizons (1931) and South American Adventures (1934) were endorsed by the Carnegie Endowment for International Peace and distributed to Carnegie libraries to promote international good will. The book, Jorge's Journey, published in 1942, was translated into Portuguese by the Brazilian coffee industry and distributed throughout the schools of Brazil. In 1949 The Talking Tree was awarded first prize by the National League of American Pen Women for the best juvenile published that year. Her books have been translated into six foreign languages and two of them have been serialized in French and Scandinavian magazines.

Apace with her writing career, Mrs. Desmond has maintained her interest in art. She has illustrated several of her books and her work has been shown in three solo exhibitions and in many collective

Her photographs have been exhibited in photography salons throughout the world. In the Photography Society of America, Mrs. Desmond is a principal exhibitor in the color slide and nature divisions and the PSA gave her its award of merit in color in 1967 and in nature in 1969. She won the George Eastman Silver medal at the 11th Focus Salon, Amsterdam, The Netherlands, in

The Desmonds have contributed generously to education and research at MIT. Senator Desmond, who died in 1972, graduated magna cum laude from Harvard University in 1908 and received a bachelor's degree in civil engi-

After 22 years as engineer and contractor, a period in which he built a record of major accomplishments, he embarked on a second career of 28 years in public service in the New York State

Widely regarded as a lawmaker two decades ahead of his time, Senator Desmond was an idealist who sponsored-among many measures-legislation on minimum wages, low-cost housing, and aid to the elderly. He was one of the first political leaders to advocate measures to reduce water and air pollution.

Senator Desmond was a Life Member of the MIT Corporation, which he served for 37 years, and was a member of Visiting Committee's of 11 of the Institute's academic departments.

Mrs. Desmond continues to write books and pursues her other interests, which include collecting coins and classical stamps.

The photographic works of Diana Schoenfeld, a graduate student in photography from the University of New Mexico in Albuquerque, will be on display at the MIT Creative Photography Laboratory, Friday, Nov. 1 through Friday, Nov. 22.

Ms. Schoenfeld's works are conceptual in nature. Many in the display are taken using various strobe effects and others involve nudes with collage backgrounds.

The show of 45 works was organized by Peter Laytin, an MIT instructor in photography and Melissa Shook, an MIT lecturer in photography.

Sidewalk chalk drawing is not an altogether lost art especially as it is practiced by Boston's "Sidewalk Sam" who will be working all day today, (Wednesday, Oct. 30) in the Building 7 Lobby creating a "sidewalk masterwork."

A multi-faceted artist, he is also a recognized oil and watercolor artist. His chalk drawings are usually five by six foot copies of the best known works of the old

Sidewalk Sam's real name is Robert Guillemin; and in recent months he has gained a reputation as a "sidewalk artist extraordinaire" according to a recent feature article on him in The Wall Street Journal.

With food as much on our minds as in our stomachs-plans are being made for a new approach to the old topic. A large environmental exhibition on the subject of food will be held at MIT in the Building 7 Lobby and the adjacent main corridor early in March.

Organizers of the exhibit Otto Piene, director of the Center for Advanced Visual Studies, Ray Pariser, Advisory Services Officer in the Sea Grant Program and Suzanne Weinberg, coordinator of the Building 7 Lobby are seeking members of the Institute community with ideas for displays and research topics to contribute.

Embodying a mix of science and art, the displays will cover such food categories as nutritional needs and historical aspects, the variety of habits, taboos and processing techniques as well as the world food problem and the limits of production.

Display information will be in the form of graphics, video tape, film, photography, sculpture, sound and performing events.

Interested people should call Suzanne Weinberg, x3-2148, or send written suggestions to Ray Pariser at Bldg. 1-211 or Otto Piene at Bldg. W11.